

**Publications, Presentations and Other Products of the IPM CRSP  
as of April 9, 2012**

**Table of Contents**

<b>1. ARTICLES PUBLISHED IN REFEREED PUBLICATIONS.....</b>	<b>2</b>
<b>2. ARTICLES PUBLISHED IN NON-REFEREED PUBLICATIONS.....</b>	<b>26</b>
<b>3. BOOKS/BOOK CHAPTERS.....</b>	<b>28</b>
<b>4. THESES AND DISSERTATIONS.....</b>	<b>32</b>
<b>5. IPM CRSP ANNUAL REPORTS AND HIGHLIGHTS.....</b>	<b>39</b>
<b>6. EXTENSION PUBLICATIONS/MANUALS.....</b>	<b>41</b>
<b>7. CONFERENCE PROCEEDINGS.....</b>	<b>47</b>
<b>8. IPM CRSP WORKING PAPERS SERIES.....</b>	<b>79</b>
<b>9. WORLD WIDE WEB SITES AND DOCUMENTS.....</b>	<b>82</b>
<b>10. GERMPLASM RELEASES.....</b>	<b>84</b>
<b>11. PAPERS/SEMINARS PRESENTED.....</b>	<b>85</b>
<b>12. ELECTRONIC PRESENTATIONS.....</b>	<b>131</b>
<b>13. POSTERS.....</b>	<b>132</b>
<b>14. FACT SHEETS.....</b>	<b>148</b>
<b>15. NEWSLETTERS.....</b>	<b>155</b>
<b>16. CDs/DVDs and VIDEOTAPES.....</b>	<b>158</b>
<b>17. MAGAZINE AND NEWSPAPER ARTICLES.....</b>	<b>164</b>
<b>18. REPORTS.....</b>	<b>166</b>
<b>19. WORKSHOPS, TRAINING, COURSES, FIELD SCHOOLS and FIELD DAYS.....</b>	<b>174</b>
<b>20. ABSTRACTS.....</b>	<b>188</b>
<b>21. BIBLIOGRAPHIC DATABASES AND MISCELLANEOUS.....</b>	<b>203</b>
<b>22. BULLETINS.....</b>	<b>204</b>
<b>23. SUCCESS STORIES.....</b>	<b>205</b>

Publications, Presentations, and Other Products of the IPM CRSP

Cumulative Compilation

Updated April, 2012

1. ARTICLES PUBLISHED IN REFEREED PUBLICATIONS

General / Global

APS Annual Meeting abstract Phytopathology 100(In Press)

Arida, G. S., B. S. Punzal and E. G. Rajotte. Effect of Chlorpyrifos+BPMC Insecticide Spray on the Population Density, Damage and Natural Enemies of Leafminer (*Liriomyza trifolii* (Burgess) on Onion (*Allium cepa* Linn) Grown After Rice (*Oryza sativa* Linn). *The Philippine Entomologist*. 23 (1):56-66.

AVRDC – The World Vegetable Center. 2006. Plant protection activities at AVRDC – The World Vegetable Center. IAPPS Newsletter, No. IX, Sept 2006. *Crop Protection* 25 (2006) 1066-1068.

Bae, H., D.P. Roberts, H.S. Lim, M.D. Strem, S.C. Park, C.H. Ryu, R.L. Melnick and B.A. Bailey. 2009. *Trichoderma* isolates from tropical environments induce resistance against *Phytophthora capsici* in Korean hot pepper. APS Potomac Division Meeting Abstract. *Phytopathology* 99 S203.

Bae, H., R.C. Sicher, M.S. Kim, S.H. Kim, M.D. Strem, R.L. Melnick, and B.A. Bailey. 2009. The beneficial endophyte, *Trichoderma hamatum* isolate DIS 219b, promotes growth and delays the onset of the drought response in *Theobroma cacao*. *Journal of Experimental Botany* 60(11): 3279-3295.

Bamba, J., R. Miller, G.V.P. Reddy and R. Muniappan. 2009. Studies on the biology, host specificity, and feeding behavior of *Acythopeus coccinae* O'Brien and Pakaluk (Coleoptera: Curculionidae) on *Coccinia grandis* (L.) Voigt (Cucurbitaceae) and *Zehneria guamensis* (Merrill) Fosberg (Cucurbitaceae). *Micronesica* 41: 71-82.

Baysal, F., A. Dorrance, M.L. Lewis Ivey, D. Luster, R. Frederick, J. Czarnecki, M. Boehm and S. A. Miller. 2007. An immunofluorescence assay to detect soybean rust urediniospores. *Phytopathology* 97: S9.

Chitturi, A., D.G. Riley, and P.H. Joost. 2006. Effect of pine pollen on settling behavior of *Frankliniella occidentalis* and *Frankliniella fusca* (Thysanoptera: Thripidae) in tomato and peanut. *Environ. Entomol.* 35:1396-1403.

Damayanti TA, OJ Alabi, Naidu RA2, Rauf A. 2009. Severe Outbreak of a Yellow Mosaic Disease on the Yard Long Bean in Bogor, West Java. *Hayati* 16(2): 78 – 82.

Dhileepan, K. and L. Strathie. 2008. *Parthenium hysterophorus*. Weed Biological Control with Arthropods in the Tropics: Towards Sustainability. (eds.) R. Muniappan, G.V.P. Reddy, and A. Raman, Cambridge University Press. In Press

Erbaugh, J.M., E. Wairimu, M. Waiganjo, and K. Sibuga (2010). Implications of Gender and Context on the Design of IPM Programs for Tomato Growers in East Africa. Abstract, *Journal of International Agricultural and Extension Education*, 17: 55.

Farrar, R.R., Jr., M. Shapiro and B.M. Shepard. 2005. Enhanced activity of the nucleopolyhedrovirus of the fall armyworm (Lepidoptera: Noctuidae) on Bt-transgenic and nontransgenic sweet corn with a fluorescent brightener and a feeding stimulant. *Environmental Entomology*. 34: 825-832.

Farrar, R.R., M. Shapiro, and M. Shepard. 2005. Relative activity of baculoviruses of the diamondback moth, *Plutella xylostella* (L.) (Lepidoptera: Plutellidae). *BioControl*. (accepted for publication).

- Garrett, K.A., S.H. Hulbert, J.E. Leach, and S.E. Travers. 2006b. Ecological genomics and epidemiology. *European Journal of Plant Pathology* 115:35-51.
- Gilbertson, R. L. 2011. Implementation and success of host-free periods for managing tomato-infecting begomoviruses in developing countries. *Phytopathology* 101: S210.
- Goodin, M.M., Zaitlin, D., Naidu, R.A. and Lommel, S.A. 2008. *Nicotiana benthamiana*: its history and future as a model for plant–pathogen interactions. *Molecular Plant-Microbe Interactions* 21: 1015-1026.
- Gordon, S.G., P.E. Lipps, and R.C. Pratt. 2006. Heritability and components of resistance to *Cercospora zeae-maydis* derived from maize inbred VO613Y. *Phytopathology* 96:593-598.
- Heinrichs, E.A.. 2005. A New Paradigm for Implementing Ecologically-Based Participatory IPM in a Global Context: the IPM CRSP Model. *Neotropical Entomology*, 34(2): 143-153.
- Hidayat SH, Sulandari S, Aidawati N. 2010. The Emergence of Yellow Leaf Curl Disease in Chilli Pepper in Indonesia. in *Emerging Geminivirus Diseases and Their Management* (eds P. Sharma, RK Gaur, M. Ikegami). Nova Science Publishers. New York (in press).
- Hotegni Houessou, J.H., F. Beed, R. Sikirou, and V. Ezin. 2011. First report of *Cercospora beticola* on lettuce (*Lactuca sativa* L.) in Bénin. *Plant Pathology New Disease Reports* 23: 16. (doi:10.5197/j.2044-0588.2011.023.016) [http://www.ndrs.org.uk/pdfs/023/NDR\\_023016.pdf](http://www.ndrs.org.uk/pdfs/023/NDR_023016.pdf)
- Joost, H. And D.G. Riley. 2007. Tomato plant and leaf age effects on the probing and settling behavior of *Frankliniella fusca* and *Frankliniella occidentalis* (Thysanoptera:Thripidae). *Environ. Entomol.* In press.
- Jovani, V., J. Tedeschini, A. Ramadhi and D. Pfeiffer. Effect of BioNem, Nemafung, and Softguard on control of root-knot nematodes (*Meloidogyne spp*) on pepper grown in unheated plastic greenhouses.
- Jovani, V., J. Tedeschini, A. Ramadhi and D. Pfeiffer. The efficacy of different nematicides in controlling root-knot nematodes (*Meloidogyne spp*) on tomato grown in unheated plastic greenhouses.
- Karthikeyan G., O.J. Alabi and A. N. Rayapati. 2011. Occurrence of Grapevine leafroll associated virus 1 in two ornamental grapevine cultivars. *Plant Disease*. Published online as doi:10.1094/PDIS-00-00-0000.
- Karungi, J, Agamire, P. Kovach, J. and Kyamanywa, S. 2010. Cover Cropping and Novel Pesticide Usage in the Management of Pests of Hot Pepper (*Capsicum chinense*). *International Journal of Tropical Insect Science*, 30: 84–92
- Kavitha, P.G., E. I. Jonathan, and K. Sankari Meena. 2010. Antagonistic potential of *Pseudomonas fluorescens* against *Meloidogyne incognita* in Tomato. *Madras Agric. Journal* 97: 399-401.
- Kon, T., and R. L. Gilbertson. 2011. Two genetically related begomoviruses causing tomato leaf curl disease in Togo and Nigeria differ in virulence and host range but do not require a betasatellite for induction of disease symptoms. *Arch. Virol.* (in press).
- Kumar, P.L., K. Sharma, S. Boahen, H. Tefera, and M. Tamo. 2011. First report of soybean witches'-broom disease caused by group 16SrII phytoplasma in soybean in Malawi and Mozambique. *Plant Disease* 95: 492.
- Lewis Ivey, M. L., Tusiime, G. and Miller, S. A. 2010. A PCR assay for the detection of *Xanthomonas campestris pv. musacearum* in bananas. *Plant Dis.* 94: 109-114.
- Lewis Ivey, M.L., G. Tusiime, M. Mwangi and S.A. Miller. 2007. Development of a PCR assay for the detection of *Xanthomonas campestris pv. musacearum* in bananas. *Phytopathology* 97: S63-S64.

## Publications/Products List

- Lopez, R., A. Levi, B. Merle Shepard, A. M. Simmons, and D. M. Jackson. 2005. Sources of resistance to two-spotted spider mite (Acari: Tetranychidae) in *Citrullus* spp. *HortScience*. 40: 1661-1663.
- Maerere, A.P., K.P. Sibuga, J.E.M. Bulali, M.W. Mwatawala, J. Kovach, S. Kyamanywa, H.D. Mtui and J.M. Erbaugh (2010). Deriving Appropriate Pest Management Technologies for Smallholder Tomato (*Solanum lycopersicum* Mill.) Growers: A Case Study of Morogoro, Tanzania. *Journal of Animal and Plant Sciences*, 6: 663-676.
- Management of eggplant fruit borer. Publication of 1000 color hard copies of the fact sheet on “The eggplant fruit borer, *Neoleucinoides elegantalisi*” (enclosed attachment), prepared by H. Espinoza (Entomologist).
- McConnachie, A.J., L W Strathie, W. Mersie, L. Gebrehiwot, K. Zewdie, A. Abdurehim, B. Abrha, T. Araya, F. Asaregew, S. Assefa, R. Gebre-Tsadik, L. Nigatu, B. Tadesse, T. Tana. 2010. Current and potential geographical distribution of the invasive plant *Parthenium hysterophorus* (Asteraceae) in eastern and southern Africa. *Weed Res.*10: 1-14.
- Melnick, R. L., A. M. Poleatewich, P. A. Backman, and B. A. Bailey. 2011. Detection and expression of enterotoxin genes in plant-associated strains of *Bacillus cereus*. *J. Applied Microbiology*. (in review).
- Melnick, R. L., C. Suarez, B. A. Bailey, and P. A. Backman. 2011. Isolation of endophytic endospore-forming bacteria from *Theobroma cacao* as potential biological control agents of cacao diseases. *Biological Control* 57: 236–245.
- Melnick, R.L, Suárez, C., Vera, D.I., Bailey, B.A., Backman, P.A. 2008 Endospore-forming bacterial endophytes of cacao: Ecology and biological control of witches’ broom. APS Annual Meeting abstract. *Phytopathology* 98:S104
- Melnick, R.L. Suárez-Capello, B.A. Bailey, K. Solis and P.A. Backman. 2009. Impact of application of endophytic *Bacillus* spp. for biocontrol of cacao diseases on native microbial communities. APS Annual Meeting abstract *Phytopathology* 100: (In Press)
- Melnick, R.L., B.A. Bailey, M.D. Strem and P.A. Backman. 2009. Ability of endophytic *Bacillus* spp. to activate plant defense genes of *Theobroma cacao*. APS Potomac Division Meeting Abstract. [Phytopathology 99 S203](#).
- Melnick, R.L., Hidalgo, K.S., Suárez, C., and Backman, P.A. 2008. Field evaluation of endophytic endospore-forming bacteria with cacao successions for management of witches’ broom of cacao during the dry season, 2007. *Plant Disease Management Reports* 2:V136.
- Melnick, R.L., Suárez-Capello, B.A. Bailey, D.I. Vera, K. Solis and P.A. Backman. 2009. Biological control of *Theobroma cacao* pod diseases with endophytic *Bacillus* spp.
- Melnick, R.L., Zidack, N.A., Bailey, B.A., Maximova, S.N., Guiltinan, M.J., Backman, P.A. 2008. Bacterial endophytes: *Bacillus* spp. from vegetable crops as potential biological control agents of black pod rot of cacao. *Biological Control*. 46:46-56.
- Miller, S. A., Beed, F. and Harmon, C. L. 2009. Plant disease diagnostic capabilities and networks. *Annu Rev. Phytopathology* 47: 15-38.
- Miller, S.A., T. M. Momol, S.A. Tolin, R.L. Gilbertson, F. Beed, D. Silue, M.A. Arevalo-Guerra, D.P. Maxwell, K.F. Cardwell, Development of the International Plant Diagnostic Network (IPDN): A multinational collaboration. *Phytopathology* 96:S79.
- Momol, T.M., J.Xin, F.S. Zazueta, S. Zhang, R. F. Mizell, A.C. Hodges, H.W. Beck, S.A. Miller, W. Klassen. DDIS: A web-based distance diagnostic system for plant diseases and pests. *Phytopathology* 96:S80.

- Moore, K.M., E.G. Rajotte, C. Pitts, I. Dolinniy, and O. Cholovska. 2003. Extension Services in the Transition from Post-Communist Agrarian Systems: The Case of the Plant Protection Stations in Ukraine. *Southern Rural Sociology*. 19(1): 138-165.
- Naidu, R.A. and G. Karthikeyan, 2008. First report of Wisteria vein mosaic virus in *Wisteria sinensis* in the United States of America. Online. *Plant Health Progress*. doi:10.1094/PHP-2008-0818-01-BR.
- Naidu, R.A., G. Karthikeyan, G., Jarugula, S., Nelson, M. and Morrell, A. 2008. First report of the natural infection of *Coreopsis auriculata* 'Nana' with Lettuce mosaic virus in the United States of America. *Plant Disease* 92: 486.
- Naidu, R.A., J.L. Sherwood and Deom, C.M. 2007. Characterization of a vector non-transmissible isolate of Tomato spotted wilt virus. *Plant Pathology*, 57: 190-200.
- Norton, G.W., and S.M. Swinton. 2009. Protocol for economic impact evaluation of IPM programs. In, R. Peshin, and A.K. Dhawan (eds.). *Integrated Pest Management: Dissemination and Impact*. Springer, pp. 79-101.
- Norton, G.W., G.E. Sanchez, D. Clarke-Harris and H.K. Traore. 2003. Food safety in food security and food trade – Case study: Reducing pesticide residues on horticultural crops. 2020 Vision for Food, Agriculture and the Environment, Focus 10, Brief 10 of 17, Sept 2003. IFPRI, Washington. 2 p.
- Onyango, I.A., L.M. Gitonga, M.M Waiganjo, R. Maranga. Evaluation of management options for the major tomato pests. Abstract accepted for Paper presentation at JKUAT conference to be held in October, 2007.
- Polatewitch, A. M., H. K. Ngugi, and P. A. Backman. 2011. Assessment of application timing of *Bacillus* spp. to suppress pre- and postharvest diseases of apple. *Plant Dis.* 95. (doi:10.1094/PDIS-05-11-038). (in press).
- Post-harvest deterioration. Publication of 1000 black and white hard copies of the fact sheet “Post-harvest deterioration of fresh fruits and vegetables by fungi and bacteria” (enclosed attachment), prepared by J. M. Rivera C. (Phytopathologist).
- Pugalendhi, L, D. Veeraragavathatham, S. Natarajan, and S. Praneetha. 2010. Utilizing wild relative (*Solanum viarum*) as resistant source to shoot and fruit borer in brinjal. *E-journal of Plant Breeding* 1: 643-648.
- Pugalendhi, L, D. Veeraragavathatham, V.A. Sathiyamurthy and S. Natarajan. 2010. High yielding and moderately resistant to fruit rot disease chilli hybrid – CCH 1 (TNAU Chilli Hybrid CO 1). *E-journal of Plant Breeding* 1: 1049-59.
- Rajiv, K. P., N. Senthil, A.D. Ashok, M. Raveendran, V. Rajashree, S. A. Prathap, and L. Pugalendhi. 2011. Fingerprinting in Cucumber and melon (*Cucumis* spp.) Genotypes Using Morphological and ISSR Markers. *J. Crop Sci. Biotech* 14: 1-8.
- Ramakrishnan, S, E. Cannaiyan, E. I. Jonathan, M. Sivakumar. 2010. Nematodes in crops and their management. [Payir noorpuzhukalum avtrrin kattuppadum] TNAU, Coimbatore. 86 p.
- Ramakrishnan, S., R. Umamaheswari, T. Senthilkumar, and M. Samuthiravalli. 2011. Management of root knot nematode (*Meloidogyne incognita* (Kofoid and White) in ashwagandha (*Withania somnifera* Dunal and Senna (*Cassia angustifolia* Vahi) using non chemicals. *Journal of Applied Horticulture* 12.
- Ramakrishnan, S., S. Subramanian, and S. Prabhu. 2010. Influence and use of drip irrigation in nematode management – a review. *Agricultural Reviews* 31: 31-39.

- Riley, D.G. 2007. Effect of imidacloprid on the settling behavior of *Frankliniella occidentalis* and *Frankliniella fusca* (Thysanoptera: Thripidae) on tomato and peanut. *J. Entomol. Sci.* 42:74-83.
- Riley, D.G., A. Chitturi, and A.N. Sparks, Jr. 2007. Does natural deposition of pine pollen affect the ovipositional behavior of *Frankliniella occidentalis* and *Frankliniella fusca* (Thysanoptera: Thripidae)? *Entomol. Exp. et Appl.* 124: 133–141.
- Saidov N. Sh., A. U. Jalilov, M. Bouhssini D. A. Landis, and Sh. Safarzoda. 2011. Resistant of varieties and lines of winter wheat to damage of cereal leaf beetle (*Oulema melanopus* L.) in condition of Central Tajikistan. *Bulletin of the Academy of agricultural sciences of the Republic of Tajikistan, Dushanbe.* (in press).
- Sankari Meena, K., E. I. Jonathan, and P. G. Kavitha. 2010. Induction of systemic resistance by chitinase in tomato against *Meloidogyne incognita* by *Pseudomonas fluorescens*. *Resistant Pest Management Newsletter* 20: 1-42.
- Sankari Meena, K., E. I. Jonathan, and P.G. Kavitha. 2010. Efficacy of *Pseudomonas fluorescens* on the Histopathological changes in tomato roots infested with root knot nematode, *Meloidogyne incognita*. *Madras Agric. J.* 97: 396-398.
- Senthil, R., K. Prabakar, L. Rajendran, and G. Karthikeyan. 2011. Efficacy of different biological control agents against major postharvest pathogens of grapes under room temperature storage conditions. *Phytopathol. Mediterr.* 50: 1-10.
- Shepard, B.M. and R. Muniappan. 2010. Practical experience in advancing IPM in non-rice food crops in Southeast Asia. In, *IPM in Vegetables: Enhancing its Implementation in Rice-Based Cropping Systems*, M.C. Casimero and P.A.C. Ooi (eds.), Bureau of Agricultural Research, Department of Agriculture, Philippines, pp 59-76.
- Shepard, B.M., M.D. Hammig, G.R. Carner, P.A.C. Ooi, J.P. Smith, R. Dilts, and A. Rauf. 2009. Implementing integrated Pest Management in developing and developed countries. In, R. Peshin, and A.K. Dhawan (eds.). *Integrated Pest Mangement: Dissemination and Impact*. Springer, pp. 275-305.
- Sikirou, R., Beed, F. Ezin, V., Gbèhounou, G., Miller, S. A. and Wydra, K. 2009. First report of bacterial wilt of tomato (*Solanum lycopersicum*) caused by *Ralstonia solanacearum* in Benin. *Plant Dis.* 93:549.
- Sikirou, R., F. Beed, J. Hotègni, S. Winter, F. Assogba-Komlan, R. Reeder, and S.A. Miller. 2011. First report of anthracnose caused by *Colletotrichum gloeosporioides* on onion (*Allium cepa*) in Bénin. *Plant Pathology New Disease Reports* 23: 7. (doi:10.5197/j.2044-0588.2011.023.007). <http://www.ndrs.org.uk/article.php?id=023007>.
- Singh, R., A. Levitt, E. Rajotte, E. Holmes, N. Ostiguy, D. VanEngelsdorp, W. Lipkin, C. dePamphilis, A. Toth, and D. Cox-Foster. 2010. RNA Viruses in Hymenopteran Pollinators: evidence of inter-taxa virus transmission via pollen and potential impact on non-apis hymenopteran species. *PLoS ONE* 5: e14357.
- Smith, J.P. and B.M. Shepard. 2005. A binomial sequential sampling plan using a composite threshold for caterpillar management in fresh market collard. *Journal of Agricultural and Urban Entomology.* 21: 171-184.
- Tedeschini, J., Dh. Shehu, E. Cota, Sh. Shahini, S. Gjini and D. Pfeiffer. 2007. Evaluation of miticides to control twospotted spider mites (*Tetranychus* spp.) in cucumber greenhouses.
- Tedeschini, J., E. Cota, Sh. Shahini, S. Gjini, D. Pfeiffer. 2007. Effectiveness of reduced-risk pesticides in the control of glasshouse whitefly (*Trialeurodes vaporariorum*) on tomato cv. Plato

## Publications/Products List

Tedeschini, J., H. Pace and D. Pfeiffer. 2007. Evaluation of fungicides for botrytis control of greenhouse tomato.

Tedeschini, J., H. Pace, E. Cota, Sh. Shahini, S. Gjini and D. Pfeiffer. Implementation of IPM scouting programs for cucumber crop production in greenhouses.

Tedeschini, J., H. Pace, I. Papingji and D. Pfeiffer. 2007. Integrating fungicide control programs for maximize economic return on tomato production in greenhouses.

Tedeschini, J., V. J. ovani, H. Pace, B. Alushi and D. Pfeiffer. 2007. Soil solarization and grafting as alternative for pests and diseases control in greenhouse tomato production system.

Tedeschini, J. Sh. Shahini, E. Kullaj and D. Pfeiffer. 2007. Effectiveness of several insecticides and natural compounds for aphid control on greenhouse tomatoes.

Testen, A. L., J. M. McKemy, and P. A. Backman. 2011. First Report of Quinoa Downy Mildew Caused by *Peonospora variabilis* in the United States. *Plant Dis.* (in Press, doi).

Thangamani, C., L. Pugalendhi, T. Sumathi, C. Kavitha, and V. Rajashree. 2011. Estimation of combining ability and heterosis for yield and quality characters in bitter melon (*Momordica charantia* L.). *E- Journal of Plant Breeding* 2: 62-66.

Thiruvudainambi, S., G. Chandrasekar, and G. Baradhan. 2010. Management of stem rot (*Sclerotium rolfsii*) of ground nut through non chemical methods. *Plant Archives* 10: 633-635.

Thiruvudainambi, S., G. Chandrasekar, and G. Baradhan. 2010. Potential antagonism of *Trichoderma* sp. against *Sclerotium rolfsii*. *Plant Archives* 10: 617-620.

Tolin, S. A. 2011. Challenges unique to managing viruses in tropical developing countries. *Phytopathology* 101: S210-211.

Zaman, F. U., D. D. Calvin, E. G. Rajotte, and D. V. Sumerford. 2010. Can a specialist parasitoid, *Macrorcentrus cingulum*, (Hymenoptera: Braconidae), influence the ecotype structure of its preferred host, *Ostrinia nubilalis* (Lepidoptera: Crambidae). *J. Econ. Entomol.* 103: 249-56. (<http://ddr.nal.usda.gov/bitstream/10113/42914/1/IND44351128.pdf>)

Zaman, F.U., D.D. Calvin, E.G. Rajotte and D.V. Sumerford. 2010. Can a specialist parasitoid, *Macrorcentrus cingulum*, (Hymenoptera: Braconidae), influence the ecotype structure of its preferred host, *Ostrinia nubilalis* (Lepidoptera: Crambidae). *J. Econ. Entomol.* 103(2) 249-56

### **Africa / General**

Alabi, O. J., M. A. Rwahni, G. Karthikeyan, S. Poojari, M. Fuchs, A. Rowhani, and N. Rayapati. 2011. Grapevine leafroll-associated virus 1 occurs as genetically diverse populations. *Phytopathology* doi: 10.1094/PHYTO-04-11-0114.

Amata, R. L., Otipa, M. J Wabule, M., Erbaugh, M., Miller S., Kyamanyua S., Kinoti, J. Incidences and Severity of Passion fruit fungal diseases in major production A paper submitted for publication to the African Journal of Horticultural Science.

Beed, F., J.H. Hotegni Houessou, P. Kelly, and V. Ezin. First report of *Aecidium cantense* (potato deforming rust) on *Solanum macrocarpon* (African eggplant) in Bénin. *Plant Pathology New Disease Reports* 23: 12. (doi:10.5197/j.2044-0588.2011.023.012). [http://www.ndrs.org.uk/pdfs/023/NDR\\_023012.pdf](http://www.ndrs.org.uk/pdfs/023/NDR_023012.pdf)

Brown, J. K. 2011. Whitefly vector populations in relation to virus ecology and management. *Phytopathology* 101: S210

## Publications/Products List

Chang, P. S., Tolin, S. 2008. Detection and partial characterization of three RNA viruses using improved membrane-based technologies. *Phytopathology* 98:S214

Dhileepan, K. and Strathie, L. 2008. *Parthenium hysterophorus* In: *Weed Biological Control with Arthropods in the Tropics: Towards Sustainability*. Muniappan, R., Reddy, G.V.P., Raman, A. and Gandhi, V.P. (eds). Cambridge University Press. In press.

Geiser D.M., M.L. Ivey, G.J. Hakiza, J.H. Juba, S.A. Miller (2005). *Gibberella xylarioides* (anamorph: *Fusarium xylarioides*) a causative agent of coffee wilt in Africa is a previously unrecognized member of the *G. fujikuroi* species complex. *Mycologia* 97 (1), pp. 191-201.

Karungi, J., P. Agamire, J. Kovach and S. Kyamanywa. Cover cropping and novel pesticide usage in the management of pests of hot pepper (*Solanum chinense*) to the *International Journal of Tropical Science* for publication where it is under review.

Leke, J.N.E. Ramsell, D.K. Njualem, V.P.K. Titanji, J.P. Legg, V.N. Fondong, J.K. Brown, and A. Kvarnheden. 2007. FTA technology facilitates detection and identification of Begomoviruses from okra plants in Cameroon. *African Crop Science Conference Proceedings* 8:655-660.

Leke, W. N. et al., 2006. Detection and identification of begomoviruses from landraces of okra (*Abelmoschus esculentus*) in Cameroon. *Cam. J. Agric. Sci.* 2(1) (in press).

Moore, K. 2008. Network Framing of Pest Management Knowledge and Practice. *Rural Sociology* 73(3), 2008, pp. 414-439.

Muniappan, R., G.V.P. Reddy, and A. Raman. 2009. *Biological Control of Tropical Weeds using Arthropods*. Cambridge University Press. (To be released in April 2009)

Munyuli, M.B.T., G.C. Luther and S. Kyamanywa (2006). Predation effectiveness of syrphids (Diptera: Syrphidae) on *Aphis craccivora* Koch (Homoptera: Aphididae) in Eastern Africa. *Indus Journal of Biological Sciences* 2006; 3(1): 596-603.

Munyuli, M.B.T., S. Kyamanywa and G.C. Luther (2006). Feeding behavior of ladybeetles on *Aphis craccivora* Koch (Homoptera: Aphididae) in Eastern and Central Africa. *Indus Journal of Biological Sciences* 2006; 3(1): 578-585.

Ochoa, J. and M. Ellis presented complementary pest management programs developed so far for naranjilla in the Congress of the Latin American Phytopathological Society (ALF) in Santiago-Chile in January 2009; the corresponding article was awarded a recognition from the Spanish Phytopathological Society (AEF).

Strathie, L. and A. McConnachie. 2007. Managing the impact of parthenium invasions in Africa. *Biocontrol News and Information* 28(3), September, 2007.

Zhou, Y.-C., Noussourou, M., Kon, T., Rojas, M. R., Jiang, H., Chen, L.-F., Gamby, K., Foster, R., and Gilbertson, R. L. 2008. Evidence for local evolution of tomato-infecting begomovirus species in West Africa: characterization of tomato leaf curl Mali virus and tomato yellow leaf crumple virus from Mali. *Arch. Virol.* 153:693-706.

## **Bangladesh**

Atanu-Rakshit, A.N.M., R. Karim, T. Hristovska, and G. Norton. 2011. Impact assessment of pheromone traps to manage fruit fly on sweet gourd cultivation. *Bangladesh J. Agril. Research* 36:197-203.

Hossain, Md. I., G.E. Shively and C. Mahmoud. 1999. Factors influencing pesticide use in a rice-vegetable farming system in Bangladesh. *Bangladesh Journal of Agricultural Economics*. XXII, 2(1999): 87-98.



Mahmoud, C. and G.E. Shively. 2003. Agricultural diversification and integrated pest management in Bangladesh. *Agricultural Economics*.

Rakshit, A., A.N.M. Rezaul Karim, T. Hristovska and G. W. Norton. 2010. Economic impact assessment of pheromone traps to manage fruit fly on sweet gourd in Bangladesh. *Bangladesh J. Agric. Res.* (Submitted in September 2010 for publication).

Ricker-Gilbert, J., G.W. Norton, J. Alwang, M. Miah, and G. Feder. 2008. Cost Effectiveness of Alternative IPM Extension Methods: An Example from Bangladesh, *Review of Agricultural Economics*, 30 (2008): (in press).

Ricker-Gilbert, Jacob, George W. Norton, Jeffery Alawang, Monayem Miah, and Gershon Feder. 2008. Cost-effectiveness of alternative integrated pest management extension methods: An example from Bangladesh. *Rev. Agril. Econ.* 30(2):252-269.

Uddin, M. Nazim, M. Mozammal Hoque, S. M. Monowar Hossain, S. N. Alam, A. K. M. Salim Reza Mollik, A. K. M. Khorsheduzzaman, Siddique Alam, Mahbubur Rahman, A. N. M. R. Karim, E. G. Rajotte, and G. C. Luther. 2007. IPM approach for controlling two lepidopteran pests of cabbage in Bangladesh. *Bangladesh J. Entomol.* 17(1): 19-29

### **Bolivia**

Plata, G., P. A. Backman, and A. Poleatewich. 2011. Evaluación de bacterias endófitas para el control de enfermedades foliares en haba. *Revista de Agricultura (Bolivia)*. (in press).

Plata, G., P. A. Backman, and A. Poleatewich. 2011. Evaluación de bacterias endófitas para el control de enfermedades de importancia económica en papa. *Revista de Agricultura (Bolivia)*. (in press).

### **Cameroon**

Leke, W.N., J.N.E. Ramsell, D.K. Njuaem, V.P.K. Titanji, J.P. Legg, V.N. Fondong, J.K. Brown and A. Kvarnheden. 2007. FTA technology facilitates detection and identification of Begomoviruses from okra plants in Cameroon. *African Crop Science Journal* (accepted).

### **Central Africa**

Brown, JK, M Kaplan, H-W Hermann, N. Merchant, and J. Legg. Microsatellite isolation, validation, and application to dissect the population genetics of *B. tabaci* associated with the severe cassava mosaic pandemic in eastern and central Africa (in preparation).

Brown, JK, N. Merchant, and J. Legg. Composition of hybrid and non-hybrid *B. tabaci* in the severe cassava mosaic virus pandemic zone in east and central Africa using two molecular markers. (in preparation).

Chang, P.-G. and S. Tolin. Immunoassay, RT-PCR and direct sequencing of Cucumber mosaic virus and potyvirus coat proteins from the same NitroPure nitrocellulose membrane.

Koutou, M, JK Brown, and A Kvarnheden. Molecular characterization of begomoviruses infecting tomato and pepper in Burkina Faso and evidence of occurrence of mixed infection. (in preparation)

Koutou, M, JK Brown, and A. Kvarnheden Evidence of mixed infection of African cassava mosaic virus (ACMV) and East African cassava mosaic virus (EACMV) in cassava from Burkina Faso. (in preparation).

Leke, W., M.N. Sattar, E.B. Ngane, J.M. Ngeve, J.K. Brown and K. Anders. 20xx. A complex of begomoviruses including a new recombinant species, a promiscuous DNA- $\beta$  satellite, and one typical and one novel DNA- $\alpha$  satellite from symptomatic okra plants in Southwestern Cameroon. *Virus Research* (submitted)

### **Chile**

Andrade, R., J. Alwang, V. Barrera, N. Kuminov. 2011. Efectos En La Selección De Medios De Vida Y Bienestar De Los Hogares Rurales Por La Implementacion De Politicas, Cuadernos de Economia (Chile). (in review).

### **East Africa**

Amata, R. L., M.J. Otipa, M. Wabule, E.G. Thurairira, M. Erbaugh, and S. Miller. 2009. Incidence, prevalence and severity of passion fruit fungal diseases in Kenya. *Journal of Applied Biosciences*, 20: 1146-1152.

Asea, G., B. Vivek, G. Bigirwa, P.E. Lipps, and R.C. Pratt. 2009. Validation of consensus QTL associated with resistance to multiple foliar pathogens of maize. *Phytopathology*, Vol. 99, No.5: 540-547.

Carter, B. A., R. Reeder, S.R. Mgenzi, Z.M. Kinyua, J.N. Mbaka, K. Doyle, M. Maina, G. Valentine, V. Aritua, M.L. Lewis Ivey, S.A. Miller and J.J. Smith. 2009. First report of *Xanthomonas campestris* pv. *musacearum*, causative organism of banana xanthomonas wilt, in Tanzania, Burundi and Kenya. *New Disease Reports* 19 <http://www.bspp.org.uk/publications/new-disease-reports/ndr.php?id=019025> .

Lewis Ivey, M. L., Tusiime, G. and Miller, S. A. 2009. A PCR assay for the detection of *Xanthomonas campestris* pv. *musacearum* in bananas. *Plant Disease* 93 (in press).

Miller, S.A., Z.M. Kinyua, F. Beed, C.L. Harmon, J. Xin, P. Vergot, T. Momol, R. Gilbertson and L. Garcia. 2009. The International Plant Diagnostic Network (IPDN) in Africa: Improving capacity for diagnosing diseases of banana and other African crops. *ActaHort.* (in press).

### **Eastern Europe**

Pace, H. and J Tedeschini. 2009. 1-Effects of soil solarization for controlling soil-borne fungi in tomato plastic houses in Albania. (*Buletini i Shkencave Bujqesore* Nr1 2009).

Pfeiffer, D. G., J. Tedeschini, B. Stamo, M. Bregasi, D. I Panajoti, D. Pertena, O. Cholovska, G. Shestopal, M. Ishchuk, K. Maslikova, M. Kharytonov, O. Pleshko, V. Todirash, T. Tretiakov, A. D. Bratsch, S. M. Miller, and M. E. McGiffen. 2007. Status of IPM, pesticide use and misuse and information transfer in horticultural crops in Albania, Ukraine, and Moldova: Participatory appraisal and baseline survey for tomato, cucumber, grape and apple. *Proc. 16th Int'l. Plant Protection Congress* 2: 774-775.

Tashpulatova B., Rashidov M.I., 2009, Test of a new pheromone against fruit bollworm (*Helicoverpa armigera*), *Bulletin of Agrarian Science*, # 1-2, p. 33-35 (Russian).

Tashpulatova, B.A. 2011. Djumaniyazova G.I. Monitoring of pest and diseases in Uzbekistan. "Vestnik" of Kyrgyz Agrarian University. (in press).

Tashpulatova, B.A., M. I. Rashidov, and A. Sh. Khamraev. 2011. Rearing of *Amblyseius mckenziei* on artificial diet. *Uzbek biological Journal*. (in press). (Russian).

### **Ecuador**

Arcos, D. 2008. Validación de control del Barrenador del fruto de naranjilla *Neoleucinodes elegantalis*. En naranjilla S. quiteñoense Lam. En San Francisco Mira provincia del Carchi. Tesis Ing. Agr. Quito, Ec. EC, Universidad Central del Ecuador, Facultad de Ciencias Agrícolas. 120p.

Asaquibay, C., P.M. Gallegos, R. Williams and J. Alwang. 2009. Comportamiento y Alternativas de control de gusano del fruto de la naranjilla (*Neoleucinodes elegantalis*). Quito, EC, EC, INIAP, Dpto. Protección Vegetal, Est. Exp. Santa Catalina, Quito, Ecuador. 16p. (*Boletín Divulgativo* no. 347).

- Barrera, V. H., J. Alwang, E. del P. Cruz Collaguazo. 2011. Análisis de la viabilidad socio-económica y ambiental del sistema de producción papa-leche en la microcuenca del río Illangama-Ecuador. Archivos Latinoamericanos de Producción Animal (Arch. Latinoam. Prod. Anim.) 18: 57-67.  
www.alpa.org.ve/ojs.index/php.
- Barrera, V., D. Quishpe, C. Crissman, G. Norton and S. Wood. 2002. "Economic evaluation of the application of the technology of integrated management of plagues and diseases (IPM) in the potato crop in the highlands of Ecuador". Technical Bulletin No. 91. INIAP-CIP-IPMCRSP-IFPRI. 62p. (in Spanish).
- Barrera, V., D. Quishpe, C. Crissman, G. Norton and S. Wood. 2002. Economic evaluation of the variety INIAP-Fripapa 99, as an alternative of integrated pest management on potato crop, in the province of Carchi, Ecuador". INIAP Magazine (16): 28-31.
- Barrera, V., L. Escudero, G. Norton and S. Sherwood. 2002. "Validation and diffusion of models of integrated management of plagues and diseases of potato crop. An experience of participatory training in the province of Carchi, Ecuador". INIAP Magazine (16): 25-28.
- Brown, J.K., A.M. Idris, K.M. Ostrow, R. French, and D.C. Stenger. 2004. A New World begomovirus complex: a case study of genotypic and phenotypic variation among several strains of Pepper golden mosaic virus. *Phytopathology*.
- Buck, S. and J. Alwang. 2009. "The Impact of Trust on Farmer Learning: Results from Economic Experiments in Ecuador", *World Development*, in press.
- Buck, S. and J. Alwang. 2011. The Impact of Trust on Learning: Results from a randomized field experiment in Ecuador. *Agricultural Economics*. (in press).
- Clavijo F. 2008. Evaluación de la reacción de segregantes interespecíficos de la naranjilla (*Solanum quitoense* Lam.) a los agentes fitopatógenos (*Fusarium oxysporum*) y (*Phytophthora infestans*). Tesis Ing. Agr. Latacunga, Ec, Universidad Técnica de Cotopaxi, Facultad de ciencias Agronómicas, Ambientales y Veterinarias. 104p.
- Cole, D.C., S. Sherwood, C. Crissman, V. Barrera and P. Espinosa. 2002. Pesticides and health in highland Ecuadorian potato production: assessing impacts and developing responses. *Int. J. Occup. Environ. Health*, 8: 182-190.
- Flowers, R.W. 2009. A new genus and species of Eumolpinae (Coleoptera: Chrysomelidae) from the western dry forest of Ecuador *Zootaxa* 2132: 65–68 (2009)
- Flowers, R.W. 2009. A second species of Apterodina (Chrysomelidae: Eumolpinae) from Ecuador R. WILLS FLOWERS, *Zootaxa* 2131: 65–68 (2009)
- Flowers, R.W. 2009. Addressing the Taxonomic Impediment in western Ecuador R. Wills Flowers. EDIT Newsletter 13, February 2009. <http://www.e-taxonomy.eu>
- Flowers, R.W. and C.S. Chaboo. 2009. Novel host records of some cassidine leaf beetles from Ecuador (Coleoptera: Chrysomelidae: Cassidinae) Date of Issue: September 25, 2009 *INSECTA MUNDI A Journal of World Insect Systematics* 0095
- Garcés, S., and R. Williams. 2004. First Record of *Hesperomyces virescens* Thaxter (Laboulbeniales: Ascomycetes) on *Harmonia axyridis* (Pallas) (Coleoptera: Coccinellidae). *Journal of the Kansas Entomological Society*. 77(2): 156-158.
- Hamilton, S. and E. F. Fischer. Labor Relations in the Nontraditional Agricultural Export Sector in Highland Guatemala. Article under review for invited special edition, *Latin American Perspectives*.

## Publications/Products List

- Jarrín, J. 2009. Aspectos epidemiológicos y de control químico de antracnosis (*Colletotrichum gloeosporioides*) en naranjilla (*Solanum quitoense* Lam). Tesis Ing. Agr. Quito, Ec., Escuela Politécnica del Ejercito. 80 p.
- Manangón, L. 2009 Patogenicidad de *Fusarium oxysporum* f.sp quitoense en la Sección Lasiocarpa. Tesis Ing. Agr. Quito, Ec., Escuela Politécnica del Ejercito. 87 p.
- Mauceri, M., J. Alwang, G.W. Norton, and V. Barrera. 2007. Adoption of Integrated Pest Management Technologies: A Case Study of Potato Farmers in Carchi, Ecuador, *Journal of Agricultural and Applied Economics*, December 2007: (in press).
- Ochoa, J. and M.Ellis. 2002. Componentes de manejo integrado de la fusariosis o marchitez vascular del babaco en el Ecuador. *Revista INIAP* (16): 16-18. Quito-Ecuador.
- Ochoa, J., B. Yangari, V. Galarza, J. Fiallos and M. Ellis. 2001. Vascular Wilt of “common naranjilla” (*Solanum quitoense*) caused by *Fusarium oxysporum* in Ecuador. Online. *Plant Health Progress*. Dooi:10.1094/PHP-2001-0918-01-HN.
- Ochoa, J., G. Fonseca, and M. Ellis. 2000. First report of *Fusarium* wilt of Babaco (*Carica x heilbornii* var. pentagona) in Ecuador. *Plant Disease*. 84: 199.
- Ochoa, J.B., and M.A. Ellis. 2002. Seed transmission of *Fusarium oxysporum* in common Naranjilla (*Solanum quitoense*) in Ecuador. Online. *Plant Health Progress* doi:10.1094/PHP-2002-0719-01-HN.
- Oyarzún, P., L. Diego, J. Pucha and G. Forbes. 2002. Black leg and soft rot, a menace difficult to confront in the potato crop in Ecuador. *INIAP Magazine* (16): 19-21.
- Pazmiño, G. 2008. Comportamiento de la sección Lasiocarpa del género *Solanum* a la patogenicidad de *Phytophthora infestans* en Ecuador. Tesis Ing. Agr. Quito, Ec, Universidad Central del Ecuador, Facultad de Ciencias Agrícolas. 184 p.
- Quijije, R, C. Suárez, R. Williams, X. Reyes. 2002. Capacidad de vuelo y Orientación de los picudos *Cosmopolites sordidus* y *Metamasius hemipterus* que infestan plantaciones de plátano. *INIAP* (16) : 13 - 15.
- Suárez, C D. Vera, Williams, R, M. Ellis, G. Norton. 2002. Desarrollo de un programa de Manejo Integrado de Plagas y Enfermedades (MIPE), para sistemas de producción basados en plátano. *INIAP* (16): 5 - 9.
- Suárez, C Y, R. Rivera. 2002. Nemátodos benéficos presentes en el Trópico Húmedo del Litoral Ecuatoriano. *INIAP* (16): 10 - 12.
- Taipe, A., P. Oyarzún, X. Cuesta and J. Rivadeneira. 2002. Generation of potato varieties with durable resistance to “late blight” (*Phytophthora infestans*). *INIAP Magazine* (16): 22-24.
- Vera, D, C. Suárez, I. Carranza, E. Belezaca, M. Ellis, R. Williams. 2002. Manejo Integrado de Enfermedades en la Rehabilitación del Plátano. In *Foro Técnico Platanero*. PROMSA, TTA. El Carmen - Ecuador. Pp. 1 - 8.

## **Ethiopia**

- Nigatu, L., A. Hassen, J. J. Sharma and S. W. Adkins, 2010. Impact of *Parthenium hysterophorus* on grazing land communities in north-eastern Ethiopia. *Weed Biology and Mgmt*. 10: 143-152.
- Negeri, M., K. Zewdie, A. Magerssa, W. Mersie, L. Hiwot 2009. Biological Control of Parthenium Weed (*Parthenium hysterophorous* L) in Ethiopia: The Process, Progress and Prospects. *Ethiopian Journal of Weed Science Management*. 3: 73-75.

Zewdie, Z. and W. Mersie. 2010. Current Status and potential distribution of parthenium weed in Ethiopia. *Ethiopian Journal of Weed Science Management*. Volume 4 (in press).

### **Guatemala**

Batuman, O., Kuo, Y.-W., Palmieri, M., Rojas, M. R., and Gilbertson, R. L. 2010. Tomato chocolate spot virus, a member of a new torradovirus species that causes a necrosis-associated disease of tomato in Guatemala. *Arch. Virol.* 155: 857-869.

Dix, A.M. 1995. IPM in non-traditional export agriculture in Guatemala: the case of Chilasco, Baja Verapaz, Guatemala. XIX International Congress, Latin American Studies Association, Washington D.C., September 28-30, 1995.

Edwards, C. R., C. K. Gerber, and G. J. Hunt. 2003 (forthcoming). A laboratory study to evaluate the Toxicity of the Mediterranean fruit fly, *Ceratitidis capitata*, bait, success 0.02 CB, to the honey bee, *Apis mellifera*. *Apidologie*.

Goldin, L. and L. Asturias. 2001. Perceptions of the Economy in the Context of Non-traditional Agricultural Exports in the Central Highlands of Guatemala. *Culture and Agriculture* 23 (1): 19-31.

Goldin, L. and L. Asturias. 2001. Perceptions of the Economy in the Context of Non-traditional Agricultural Exports in the Central Highlands of Guatemala. *Culture and Agriculture* 23 (1): 19-31.

Hamilton, S. 2008. La incorporación de manejo integrado de plagas en un centro nufed de ciclo básico del nivel medio de Guatemala: Generación de lecciones aprendidas para transferencia a IPM-CRSP Honduras. Informe final consolidado presentado por Luisa María Mazariegos y Verónica Mérida, Estudio 1360/IPM-CRSP Guatemala, a Dra. Sarah Hamilton, IPM CRSP-Honduras/Virginia Tech/Denver University." December 2008.

Hamilton, S. and E.F. Fischer. 2005. Maya farmers and export agriculture in highland Guatemala; Implications for development and labor relations. *Latin American Perspectives* 32(3): 33-58.

Hamilton, S., E.F. Fischer, and L. Asturias de Barrios. 2003 (forthcoming). Understanding the risks: Theoretical perspectives and local perceptions of nontraditional agricultural exports in highland Guatemala. *Latin American Research Review*.

Hamilton, S., L. Asturias de Barrios, and B. Tevalán. 2001. Gender and commercial agriculture in Ecuador and Guatemala. *Culture and Agriculture* 23 (3): 1-12.

Hamilton, S., L. Asturias, and B. Tevalán. 2002. Gender and Agricultural Commercialization in Ecuador and Guatemala. Accepted for publication by *Culture and Agriculture*.

Julian, J.W., G.E. Sánchez, and G.H. Sullivan. 2000. An assessment of the value and importance of quality assurance policies and procedures to the Guatemalan snow pea trade. *J. of International Food and Agribusiness Marketing*, Vol. 11(4): 51-71.

Julian, J.W., G.H. Sullivan and S.C. Weller. 1998. Assessment of Potential Impacts from the Elimination of Methyl Bromide in the fruit and vegetable Trade. *HortScience* 33(5): 794 - 797.

Julian, J.W., G.H. Sullivan, and G.E. Sánchez. 2000. Future Market Development Issues Impacting Central America's Nontraditional Agricultural Export Sector: Guatemala Case Study, *American Journal of Agricultural Economics* 82(5):1177-1183.

Palmeiri, M. 2011. Whitefly and Begomovirus biology as a tool for their management in a developing country: Guatemala. *Phytopathology* 101: S210

Salazar, J.R., H. Vásquez, D. Dardón and V. Salguero. 1996. Farmers Validation of Integrated Management Practices to Control the Whitefly-Virus Complex on Tomato. Resumen en: Memorias VI Congreso Internacional de Manejo Integrado de Plagas, V Taller Latinoamericano sobre Moscas Blancas y Geminivirus. Acapulco, Gro. México. p. 172.

Sullivan, G. H., S.C. Weller, C.R. Edwards, P.P. Lamport and G.E. Sánchez. 2000. Integrated crop management strategies in snow pea: A model for achieving sustainable NTAE production in Central America. Sustainable Development International, 3<sup>rd</sup> Edition, ICG Publishing, pp. 107-110.

Sullivan, G.H., G.E. Sánchez, S.C. Weller and C.R. Edwards. 1999. Sustainable development in Central America's non-traditional export crops sector through adoption of integrated pest management practices: Guatemalan case study. Sustainable Development International, ICG Publishing, Launch Edition, pages 123- 126, London, England.

Weller, S.C. and G.E. Sanchez. 2009. Integrated crop management strategies for sustainable production of non-traditional agriculture exports: Snow peas in Guatemala. *Chronica Horticul.* 49:19-21.

Weller, S.C., G.E. Sanchez, C.R. Edwards and G.H. Sullivan. 2002. IPM CRSP success in NTAE crops leads to sustainable trade for developing countries. Sustainable Development International, 6<sup>th</sup> Edition, ICG Publishing, pp. 135-138.

### **Honduras**

Brown, J.K., M. Rehman, J.C. Melgar and J.M. Rivera. 2009. First report of an uncultured *Candidatus Liberibacter* species from potato crops and potato psyllids in Honduras. *Plant Dis.* (submitted)

Rehman, M., Melgar, J., Rivera C., J.M., Urbina, N., Idris, A.M., and Brown, J.K. 2010. First report of “*Candidatus Liberibacter psyllauros*” or “*Ca. Liberibacter solanacearum*” associated with severe foliar chlorosis, curling, and necrosis, and tuber discoloration of potato plants in Honduras. *Plant Dis.* 94:376.

Sparger, J. A., J. Alwang, G.W. Norton, M. Rivera, and D. Breazeale. 2011. Designing an IPM Research Strategy to Benefit Poor Producers and Consumers in Honduras. *Journal of Integrated Pest Management.* (in press).

### **India**

Karthikeyan G., V. Pandian, S. K. Manoranjitham, G. Chandrasekar, R. Samiyappan, E. I. Jonathan and R. A. Naidu. 2011. Studies on Peanut bud necrosis virus affecting tomato in India. *Phytopathology* 101: S58.

Kunkalikal, S., S. Poojari, P. Rajagopalan, U.B. Zehr, R.A. Naidu and K.S. Ravi. 2007. First report on the natural occurrence of *Capsicum chlorosis virus* in tomato in India. *Plant Health Progress* doi: 10.1094/PHP-2007-1204-01-BR.

Kunkalikal, S.R., P. Sudarsana, M. A. Bhanupriya, B. M. Arun, P. A. Rajagopalan, T. C. Chen, S. D. Yeh, R. A. Naidu, U. B. Zehr, and K. S. Ravi. 2011. Importance and genetic diversity of vegetable-infecting tospoviruses in India. *Phytopathology* 101: 367–376.

Kunkalikal, S.R., Sudarsana, P., Bhanupriya M., Rajagopalan, P.A., Chen, T-C., Yeh, S-D., Naidu, R.A., Zehr, U.B. and Ravi, K.S. 2010. Importance and genetic diversity of vegetable-infecting tospoviruses in India. *Phytopathology* (in press).

Nahar, M. S., M. A. Rahman, G. N. M. Ilias, M. Arefur Rahaman, L. Yasmin, Mafruha Afroz, A. N . M. Rezaul Karim and S. A. Miller. 2011. Effect of Tricho-compost on soil-borne disease and production of some vegetable crops. Accepted for publication in *Bangladesh Journal of Phytopathology*. Abstract published in the proceedings of the 9<sup>th</sup> National Symposium on Soil Biology and Ecology, West Bengal, India, 2010.

## Publications/Products List

Nahar, M. S., M. A. Rahman, M. Afroz, A.N.M. Rezaul Karim, and S. A. Miller. 2011. Use of nematode as soil enrichment indicator. *Bangladesh Journal of Phytopathology*. (in press). Abstract published in the proceedings of the 9<sup>th</sup> National Symposium on Soil Biology and Ecology, West Bengal, India, 2010.

Ramakrishnan, S., T. Senthilkumar, I. Cannayane, and K. Rajamani. 2010. Biomangement of root knot nematode *Meloidogyne incognita* in bhumiamlaki (*phyllanthus niruri*) and makoy (*Solanum nigrum*). *South Indian Horticulture* 58: 286-288.

Ramakrishnan, S., T. Senthilkumar, I. Cannayane, and K. Rajamani. 2010. Assessment of avoidable yield loss due to root knot nematode *Meloidogyne incognita* in medicinal crops . *South Indian Horticulture* 58: 298-300.

Ravi, K.S., M. Bhanupriya, S. Poojari, S. Kunkalikal, U. Zehr, D.G. Riley, S. Adkins, and R.A. Naidu. 2007. Current status of tospoviruses in vegetable cropping systems in India. *Phytopathology* 97: S97.

Savitha, B. K., P. Paramaguru, and L. Pugalendhi. 2010. Effect of drip fertigation on growth and yield of onion. *Indian J. Hort.* 67: 334-336.

Thilagavathy, R., R. Ramjegathesh, L. Rajendran, S. Sivakumar, G. Karthikeyan, S. Nakkeeran, R. Rabindran, and R. Samiyappan. 2011. First report of little leaf disease associated with phytoplasma on sugar beet (*Beta vulgaris* L. subsp. *vulgaris* var. *altissima* Doll) in India. *J. Gen. Plant Pathol.*, 77:139-141.

### Indonesia

Damayanti TA, OJ Alabi, Rauf A, Naidu RA. 2010. The occurrence of *Bean common mosaic virus* and *Cucumber mosaic virus* in yard long beans in Indonesia. *Plant Disease* 94. 478.

Hidayat SH, D Haryadi, E Nurhayati. 2009. Use of serological-based assay for the detection of pepper yellow leaf curl Indonesia virus. *Plant Pathology Journal* 25: 382 – 332.

Sembel, D. T. 2011. Scientific papers: Biology and levels of infestation by *Nesidiocoris tenuis* on tomato crops in N. Sulawesi, Indonesia. Penerbit Andi Yogyakarta. ( in press).

Trisno J, SH Hidayat, T Habazar, I Manti, Jamsari. 2009. Detection and Sequence Diversity of Begomovirus Associated with Yellow Leaf Curl Disease of Pepper (*Capsicum annum*) in West Sumatra, Indonesia. *Microbiology Indonesia* 3: 61 – 66.

### IPDN

Carter, B.A., R. Reeder, S.R. Mgenzi, Z.M. Kinyua, J.N. Mbaka, K. Doyle, M. Maina, G. Valentine, V. Aritua, M.L. Lewis Ivey, S.A. Miller and J.J. Smith. 2009. First report of *Xanthomonas campestris* pv. *musacearum*, causative organism of banana xanthomonas wilt, in Tanzania, Burundi and Kenya. *New Disease Reports* 19 <http://www.bspp.org.uk/publications/new-disease-reports/ndr.php?id=019025>.

Chen, L.-F., M.R. Rojas, T. Kon, K. Gamby, B. Xoconostle-Cazares and R.L. Gilbertson. 2009. A severe symptom phenotype in tomato in Mali is caused by a reassortant between a novel recombinant begomovirus (Tomato yellow leaf curl Mali virus) and a betasatellite. *Mol. Plant Pathol.* 10: 415-430.

Kon, T., M.R. Rojas, I.K. Abdourhamane, and R.L. Gilbertson. 2009. The roles and interactions of begomoviruses and satellite DNAs associated with okra leaf curl disease in Mali, West Africa. *J. Gen. Virol.* 90: 1001-1013.

Lewis Ivey, M.L., G. Tusiime and S.A. Miller. 2009. A PCR assay for the detection of *Xanthomonas campestris* pv. *musacearum* in bananas. *Plant Disease* 93 (in press).

Miller, S. A., F. Beed and C.L. Harmon. 2009. Plant disease diagnostic capabilities and networks. *Annual Review of Phytopathology* 47:15-38.

## Publications/Products List

Miller, S.A., Z.M. Kinyua, F. Beed, C.L. Harmon, J. Xin, P. Vergot, T. Momol, R. Gilbertson and L. Garcia. 2009. The International Plant Diagnostic Network (IPDN) in Africa: Improving capacity for diagnosing diseases of banana and other African crops. *Acta Hort.* (in press).

Sikirou, R., F. Beed, V. Ezin, G. Gbèhounou, S.A. Miller and K. Wydra. 2009. First report of bacterial wilt of tomato (*Solanum lycopersicum*) caused by *Ralstonia solanacearum* in Benin. *Plant Dis.* 93:549.

Zhou, Y.C., M. Noussourou, T. Kon, M.R. Rojas, H. Jiang, L.F. Chen, K. Gamby, R. Foster, and R.L. Gilbertson. 2008. Evidence for local evolution of tomato-infecting begomovirus species in West Africa: characterization of tomato leaf curl Mali virus and tomato yellow leaf crumple virus from Mali. *Arch. Virol.* 153:693-706.

### Israel

Jovani, V., J. Tedeschini, A. Ramadhi and D. Pfeiffer. The efficacy of different nematicides in controlling of root-knot nematodes (*Meloidogyne spp*) on tomato and cucumber grown in heated Israeli greenhouses.

### Jamaica

Bohac, J.R., P.D. Dukes, Sr., J.D. Mueller, H.F. Harrison, J.K. Peterson, J.M. Schalk, D.M. Jackson, and J. Lawrence. 2001. 'White Regal', a multiple pest- and disease-resistant, cream-fleshed, sweetpotato. *HortScience* 36:1152-1154.

Clarke-Harris, D., and S.J. Fleischer. 2003. Sequential sampling and biorational chemistries for management of lepidopteran pests of vegetable amaranth in the Caribbean. *Journal of Economic Entomology* 96(3): 798-804.

Fery, R.L., and J.A. Thies. 1998. PA-353, PA-398, and PA-426: Southern root-knot nematode-resistant Capsicum Chinese Jacq. germplasm lines. *HortScience* 33:760-761.

Fery, R.L., and J.A. Thies. 1997. Evaluation of Capsicum chinense Jacq. cultigens for resistance to the southern root-knot nematode. *HortScience.* 32: 923-926.

Fery, R.L., and J.A. Thies. 1998. Genetic analysis of resistance to the southern root-knot nematode in Capsicum chinense Jacq. *J. Amer. Soc. Hort. Sci.* 123: 1008-1011.

Fery, R.L., and J.A. Thies. 2000. Inheritance of resistance to the peanut root-knot nematode in Capsicum chinense. *J. Amer. Soc. Hort. Sci.* 125(5): 615-618.

Fery, R.L., P.D. Dukes, Sr., and J.A. Thies. 1998. 'Carolina Wonder' and 'Charleston Belle': Southern root-knot nematode-resistant bell peppers. *HortScience* 33: 900-902.

Goldsmith, J., C.A. Edwards, D. Clarke-Harris, O. James. 2005. Effects of biorational pesticides on the incidence of Broad Mite (*Polyphagotarsonemus latus* Banks) and its predators on hot peppers in Jamaica.

Goldsmith, J., C.A. Edwards, R. Martin, D. Clark-Harris, O. Banks, M. Schroeder. 2005. A survey of the influence of pesticide use on the incidence of Broad Mite (*Polyphagotarsonemus latus* Banks) and its predators on hot peppers in Jamaica.

Harrison, H.F., and R.L. Fery. 1998. Response of leading bell pepper varieties to bentazon herbicide. *HortScience* 33: 318-320.

Jackson, D.M. and J.K. Peterson. 2000. Sublethal effects of resin glycosides from sweetpotato skins on larvae of the diamondback moth. *J. Econ. Entomol.* 93: 388-393.



## Publications/Products List

- Jackson, D.M. and J.R. Bohac. 2004. Evaluation of advanced sweetpotato genotypes for resistance to soil insect pests, 2002. *Arthropod Manage. Tests* Volume 29. Online Journal at <http://www.entsoc.org/pubs/index.html>.
- Jackson, D.M. and J.R. Bohac. 2004. Evaluation of dry fleshed sweetpotato genotypes for resistance to soil insect pests, 2002. *Arthropod Manage. Tests* Volume 29. Online Journal at <http://www.entsoc.org/pubs/index.html>.
- Jackson, D.M. and J.R. Bohac. 2004. Evaluation of regional sweetpotato genotypes for resistance to soil insect pests, 2002. *Arthropod Manage. Tests* Volume 29. Online Journal at <http://www.entsoc.org/pubs/index.html>.
- Jackson, D.M., J. Lawrence, K.M. Dalip, P. Chung, D. Clarke-Harris, J.R. Bohac, S. Tolin, and C. Edwards. 2004. The sweetpotato leaf beetle, *Typophorus nigrinus viridicyaneus* Crotch (Coleoptera: Chrysomelidae), an emerging pest in Jamaica: Distribution and host plant resistance. *Tropical Agriculture*, 80(4): 235-242.
- Jackson, D.M., K.A. Sorensen, C.E. Sorensen, and R.N. Story. 2004. Monitoring cucumber beetles in sweetpotato and cucurbits with kairomone baited traps. *J. Econ. Entomol.*
- Kays, S.J., W.J. McLaurin, Y. Wang, P.D. Dukes, J.R. Bohac, and D.M. Jackson. 2001. GA90-16: A nonsweet, staple-type sweetpotato breeding line. *HortScience*. 36: 175-177.
- McDonald, S. A., S. A. Tolin, and B. Nault. 2004. Effects of timing of TEV infections on growth, yield and quality of 'Scotch Bonnet' pepper (*Capsicum chinense* Jacquin) fruit in Jamaica. *Tropical Agriculture*.
- McDonald, S.A., B. Nault, and S. A. Tolin. 2004. Efficacy of Stylet-Oil® in suppressing the of spread of TEV infections in a 'Scotch Bonnet' pepper (*Capsicum chinense* Jacquin) field in Jamaica. *Tropical Agriculture*.
- McDonald, S.A., S.E. Halbert, S.A. Tolin and B.A. Nault. 2003. Seasonal abundance and diversity of aphids (Homoptera: Aphididae) in a pepper production region in Jamaica. *Environmental Entomology* 32(3): 499-509.
- Thies, J.A., and J.R. Bohac. 1999. Sweetpotato. Reactions of regional and elite breeding clones and standard check cultivars to southern root-knot nematode race 3, 1998. *Biological and Cultural Tests* 14:187.
- Thies, J.A., and R.L. Fery. 1999. Expression of resistance to the southern root-knot nematode, *Meloidogyne incognita*, in *Capsicum chinense* and *C. annuum* at high temperatures. *Phytopathology* 89:S77.
- Thies, J.A., and R.L. Fery. 2000. Heat stability of resistance to *Meloidogyne incognita* in scotch bonnet peppers (*Capsicum chinense* Jacq.). *Journal of Nematology* 32(4): 356-361.
- Thies, J.A., J.D. Mueller, and R. L. Fery. 1998. Use of a resistant pepper as a rotational crop to manage southern root-knot nematode. *HortScience* 33: 716-718.
- Thies, J.A., J.D. Mueller, and R.L. Fery. 1997. Effectiveness of resistance to southern root-knot nematode in 'Carolina Cayenne' pepper in greenhouse, microplot, and field tests. *J. Amer. Soc. Hort. Sci.* 122: 200-204.
- Kazakhstan**
- Saidov N.SH. and A.D. Landis. 2008. Evaluation of flowering plants to attract natural enemies in Tajikistan. Proceeding of the Conference devoted to 50 years Kazakh Research Institute of Plant Protection and Quarantine, Almata, Kazakhstan, November 2008, vol. I, p.127-132 (in English).

**Kenya**

Amata, R. L., Otipa, M. J., Wabule, M., Kinyua, Z., M., Kyamanywa S. Erbaugh, M. Miller, S., Dieback disease, devastating passion fruit production in Kenya. A paper submitted for presentation during the 11th. Biennial KARI Conference on the 10th -14th. November 2008.

Asea, G., B. Vivek, G. Bigirwa, P.E. Lipps, and R.C. Pratt. 2009. Validation of consensus QTL associated with resistance to multiple foliar pathogens of maize. *Phytopathology* (Accepted with revision).

Onyango, I. A. and M.M. Waiganjo. 2006. Farmer Knowledge of tomato pests, the management practices and production constraints in Kirinyaga District, Kenya. Paper presented during the Horticultural Association of Kenya Conference, at KARI-Mtwapa 6<sup>th</sup> – 9<sup>th</sup> Dec.2006. Submitted for publication in *African Journal of Horticultural Science*.

Onyango, I. A.; Gitonga, L.M.; Waiganjo, M.M. 2007. Evaluation of management options for tomato pests in Kirinyaga District of Central Province. Presented during the Second JKUAT Scientific, Technological and Industrialisation Conference, held at JKUAT 26-27 October, In the book of Abstracts p. 84. Submitted for publication in the *Journal of Agriculture Science and Technology (JAGST)*.

Waiganjo M.M, I. Onyango, S.N. Kuria, S.B. Wepukhulu, M.N. Wabule, M. Erbaugh and J. Kovach. 2008. Environmentally Safe and Cost Effective Tomato Pest Management Options For Small Holder Growers At Thika, Kenya. Paper submitted for publication in the *African Journal of Horticultural Science*

Waiganjo M.M., Onyango, I; M.N. Wabule; S.B. Wepukhulu; B.M. Ngari; J. Kovach. Evaluation of Integrated Pest Management Options for Cost Effective Small Holder Tomato Production in Kenya. Submitted for publication in *African Journal of Horticultural Science*.

Waiganjo, M.M; Onyango, I; M.N. Wabule; B.M. Ngari; S.B. Wepukhulu. 2008. Evaluation of Tomato Pest Management Options at KARI-Thika, Kenya. 2007Annual Report. KARI-Thika.

Waiganjo, M.M; Wabule, N.M; Kuria, S; Kibaki, J.M; Onyango, I; Wepukhulu, S.B; Muthoka, N.M; D.Taylor. Survey of Knowledge, Practice and Perceptions Relating to Pests and their Management among Small holder Tomato Farmers in Kirinyaga District, Kenya. Paper submitted to the *Journal of Agriculture Science and Technology*.

**Mali**

Dunkel, F.V. and D.C. Richards. 1998. The effect of an azadirachtin formulation on six nontarget aquatic macroinvertebrates. *Environmental Entomology*. 27: 667-674.

Jenkins, D.A., F.V. Dunkel and K.T. Gamby. 2003. Storage temperature of neem kernel extract: differential effects on oviposition deterrency and larval toxicity of *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae). *Environmental Entomology* 32(6): 1283-1289.

Kumar, A., F.V. Dunkel, M.A. Broughton, and S. Sriharan. 2000. Effect of root extracts of Mexican marigold, *Tagetes minuta* (Asterales: Asteraceae) on six nontarget aquatic macroinvertebrates. *Environmental Entomology* 29: 140-149.

Morant, M., A. Thera, M. Diakite, K. Gamby, J. Stapleton, and J. Caldwell. 2000. Cultural control of soil fungi associated with snap beans in Mali, 1999. *Biological and Cultural Tests for Control of Plant Diseases*, Vol. 15: 145.

Mullen, J.D., D.B. Taylor, M. Fofana and D. Kebe. 2003. Integrating long-run biological and economic considerations into Striga management programs. *Agricultural Systems* 76: 787-795.

Noussourou, M., R. Foster and J.S. Caldwell. 2003. Dynamique des populations de *Nisotra uniformis*, *Nisotra dilecta* et de leurs predateurs sure *Hibiscus sabdariffa* au Mali. *Etudes et Recherches Saheliennes* 10: 39-46.

Noussourou, M., R. Foster, J.S. Caldwell and Y.O. Doumbia. 2000. Inventaire des ennemis naturels de *Nisotra uniformis* (Jac) et de *Nisotra dilecta* (Dal) (Coleoptera: Chrysomelidae) ravageurs d'*Hibiscus sabdariffa* (L.) au Mali. *Etudes et Recherches Saheliennes* No. 4-5 Jan-Dec 2000.

### **Nigeria**

Bandyopadhyay, R., K. Sharma, T. J. Onyeka, A. Aregbesola, and P. L. Kumar. 2011. First report of taro (*Colocasia esculenta*) leaf blight caused by *Phytophthora colocasiae* in Nigeria. *Plant Disease* 95: 618.

### **Philippines**

Alberto, R.T., M.S.V. Duca, S.E. Santiago, S.A. Miller, and L.L. Black. 2001. First report of anthracnose of onion (*Allium cepa* L.) caused by *Colletotrichum gloeosporioides* (Penzig) and Sacc. in the Philippines. *Journal of Tropical Plant Pathology* 37 (1): 46-51.

Arida, G.S., B.S. Punzal, C.C. Ravina, V.P. Gapus, E.G. Rajotte and N.S. Talekar. 2004. Monitoring adult populations with sex pheromone traps for effective timing of interventions against defoliators in onion, *Allium cepa* Linn grown after rice, *Oryza sativa* Linn. *The Philippine Entomologist Journal*, 18(2): 139-150.

Arida, G.S., C.C. Ravina, B.S. Punzal, E.G. Rajotte and N.S. Talekar. 2004. Response of the onion plant *Allium cepa* Linn to simulated pest damage. *The Philippine Entomologist Journal*, 18(2): 151-162.

Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien and S.K. De Datta. 2000. Reducing herbicide use with agronomic practices in onion (*Allium cepa* L.) grown after rice (*Oryza sativa* L.). *The Philippine Agricultural Scientist* 83(1): 34-44.

Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien and S.K. De Datta. 1999. Major weeds and dominance patterns in rainfed rice-onion cropping system. *The Philippine Agricultural Scientist* 82(2): 166-177.

Cuyno, L., G.W. Norton, and A. Rola. 2001. Economic Analysis of Environmental Benefits of Integrated Pest Management: A Philippine Case Study. *Agricultural Economics: Volume 25* (2001): 227-233.

Gapasin, R., M.V. Judal, C. Pile, E.B. Gergon, V.P. Gapud, and S.R. Obien. 1999. Alternative management strategies against the rice root-knot nematode, *Meloidogyne graminicola* in rice-onion system. *Philippine Technology Journal* 23(2): 69-75.

Gergon, E. B., S.A. Miller, J. Halbrendt and R.G. Davide. 2002. Effect of rice root-knot nematode on growth and yield of Yellow Granex onion. *Plant Disease* 86(12): 1339-1344.

Gergon, E.B. Host suitability of common field crops and weeds to rice root-knot nematode *Meloidogyne graminicola*. *Journal of Philippine Phytopathology*.

Gergon, E.B. The reproduction of *Meloidogyne graminicola* on potential green manure crops for use in flooded and upland rice. *Journal of Philippine Phytopathology*.

Gergon, E.B., S.A. Miller and R.G. Davide. 2001. Occurrence and pathogenicity of rice root-knot nematode (*Meloidogyne graminicola*) and varietal reactions of onion (*Allium cepa* L.). *The Philippine Agricultural Scientist* 84 (1): 43-50.

## Publications/Products List

Gergon, E.B., S.A. Miller, R.G. Davide, O.S. Opina and S.R. Obien. 2001. Evaluation of cultural practices for management of rice root-knot nematode in rice-onion cropping system and their effect on onion (*Allium cepa*) yield. *International Journal of Pest Management* 47(4): 265-272

Lewis Ivey, M.L. 2007. Diversity of *Ralstonia solanacearum* infecting eggplant in the Philippines. *Phytopathology* 97: 1467-1475.

Lewis Ivey, M.L., S.A. Miller, N. Opina, and G. Tusiime. 2005. Molecular characterization of *Ralstonia solanacearum* strains from eggplant grown in the Philippines. *Phytopathology* 95: S59.

Norton, G.W., E.G. Rajotte and V. Gapud. 1999. Participatory Research in Integrated Pest Management: Lessons from the IPM CRSP. *Agriculture and Human Values*, 16: 431-439.

Padua, L. E., V.P. Gapud, E.C. Martin, C.V. Pile, B.A. Santiago, N.S. Talekar, V.F. Recta, E.G. Rajotte and A.C. Lopus. 1999. Use of Nuclear Polyhedrosis Virus (NPV) and *Bacillus thuringiensis* (Bt) for Spodoptera Control in Yellow Granex Onions. *Philippine Entomologist*. 13(2): 159-168.

Rapusas, H. R., S. E. Santiago, J. M. Ramos, S. M. Roguel, S. A. Miller, M. Hammig, and B. M. Shepard. Integrated Pest Management: Assessment of Implementation in Rice-Vegetable Cropping Systems. *The Philippine Entomologist*. 23: 67-94.

Rapusas, H.R., S.E. Santiago, J.M. Ramos, S.M. Roguel, S.A. Miller, M. Hammig, and B.M. Shepard. 2009. Integrated Pest Management: Assessment of Implementation in Rice-Vegetable Cropping Systems. *The Philippine Entomologist*. April 2009. In Press.

Tjornhom, J.D., G.W. Norton, and V. Gapud. 1998. Impacts of Price and Exchange Rate Policies on Pesticide Use in the Philippines. *Agricultural Economics*, 18: 167-175.

Tjornhom, J.D., G.W. Norton, K.L. Heong, N.S. Talekar, and V.P. Gapud. 1997. Determinants of pesticide misuse in Philippine onion production. *Philipp. Ent.* 11(2): 139-149, October 1997.

### **Southeast Asia**

Hammig, M. D., B. M. Shepard, G. R. Carner, R. Dilts and A. Rauf. 2008. Areawide pest management for non-rice food crops in Southeast Asia. Pp. 326-350. In: O. Koul, G. Cuperus and N. Elliot (eds). *Areawide Pest Management: Theory and Implementation*. CAB International.

Poojari, S., O.J. Alabi, K. Gandhi, S.K. Manoranjitham, T. A. Damayanti, S. H. Hidayat, and R. A. Naidu. 2011. Molecular diversity of viruses in vegetable crops from farmers fields in South and Southeast Asia. *Phytopathology* 101:S143.

Ramakrishnan, S., E. I. Jonathan, and I. Cannayane. 2010. Biomangement of root knot nematode fungal disease complex of *Coleus*. *South Indian Horticulture* 58: 304-305

### **Tajikistan**

Saidov N.SH. and A.D. Landis. 2008. Evaluation of flowering plants to attract natural enemies in Tajikistan. *News of the Academy of sciences of the Republic of Tajikistan*, № 4 (165), p. 19-28 (in Russian).

### **Tanzania**

Mtui, H.D., A.P. Maerere, M.D. Kleinhenz, S.A. Miller, M. Erbaugh, and M.A. Bennett. Seed treatment and mulch effects on seedborne bacterial pathogens and yield of tomato (*Lycopersicon esculentum* mill.) in Tanzania. Program and Abstracts, 2008 Annual Amer. Soc. Hort. Sci. Conference, 21-24 July, 2008,

Mtui, H.D., Bennett, M.A., Maerere, A.P., Miller, S.A., Kleinhenz, M.D. and Sibuga, K.P. (2010). Effect of seed treatments and mulch on seedborne bacterial pathogens and yield of tomato (*Solanum lycopersicum* Mill.) in Tanzania, accepted for publication in the Journal of Animal and Plant Sciences.

Mtui, H.D., M.A. Bennett, A. P. Maerere, S.A. Miller, M.D. Kleinhenz, K.P. Sibuga and M. W.Mwatawala and M. Erbaugh. 2008. Effect of seed treatment and mulch on seed borne bacterial pathogens and yield of tomato (*Lycopersicon esculentum* Mill.) in Tanzania” (submitted to Elsevier Publishers) Orlando, FL. HortScience 43(4):1159.

### **Southeast Asia**

Pinaria, B.A.N, J. Rimbing, B.H Assa, D.T. Sembel, M. Hammig, G. Carner and M. Shepard 2009. Penggunaan *Metarhizium* sp Isolat local untuk pengendalian hama *Plutella xylostella* dan *Crociodolomia binotalis* pada tanaman kubis. (Application of local strain *Metarhizium anisopliae* to control *Plutella xylostella* and *Crociodolomia binotalis* on cabbage crops) *Eugenia*: 14(4):470-476.

### **Uganda**

Agamile, P. 2008. Options for management of insect pests, diseases and nematodes of hot pepper (*Solanum chinense*) in Uganda. BSc Special Project Report, Makerere University.

Apoo H. 2008. Characterization of passion fruit in Uganda using Random Amplified Polymorphic DNAs (RAPDs). BSc Special Project Report, Makerere University.

Asea, G., Bigirwa, G., Adipala, E., Owera, S.A.P., Pratt, R.C. and Lipps, P.E. 2002. Effect of *Cercospora zeae-maydis* infested maize residue on progress and spread of grey leaf spot of maize in central Uganda. *Ann. Appl. Biol.* 140: 177-185.

Asio, M.T., E. Adipala, and D.S.O. 2003. Farmer evaluation of and advanced cowpea line for agronomic performance in eastern Uganda. *MUARIK Bulletin* 6: 15-20.

Assessment Process: Identifying Production Constraints Among Arabica Coffee Producers in Eastern Uganda. Abstracts, *Journal of International Agricultural and Extension Education*, 15 (2),

Bigirwa, G., R.C. Pratt, E. Adipala, and P.E. Lipps. 2000. Assessment of Gray leaf spot and stem borer incidence and severity on maize in Uganda. *African Crop Science Journal* Vol. 4:

Erbaugh, J. M., Donnermeyer, J., Kyamanywa, S. and Kucel, P. 2008. The Role of Extension in the

Erbaugh, J.M., J. Donnermeyer and P. Kibwika. 2001. Evaluating Farmers' Knowledge and Awareness of Integrated Pest Management (IPM): Assessment of the IPM Collaborative Research Support Project in Uganda. *Journal of International Agricultural and Extension Education*, Spring, 2001: 47-53

Erbaugh, J.M., J. Donnermeyer, and M. Amujal 2007. Assessing the Impact of Farmer Field School Participation on IPM Adoption in Uganda. Abstracts, *Journal of International Agricultural and Extension Education*, 14 (2), 71.

Erbaugh, J.M., J. Donnermeyer, and S. Kyamanywa, 2002. Factors Associated with the Use of Pesticides in Uganda: Strategic Options for Targeting Integrated Pest Management (IPM) Programs. *Journal of International Agricultural and Extension Education*, 9 (2): 23-28.

Erbaugh, J.M., J. Donnermeyer, E. Adipala and S. Kyamanywa. 2000. Farmer Identification of Production Constraints: An Assessment of Farmer Participation in Uganda. *MUARIK Bulletin*, 3: 1-10.

Erbaugh, J.M., J. Donnermeyer, M. Amujal and S. Kyamanywa. 2003. The role of women in pest management decision making in eastern Uganda. *Journal of International Agricultural and Extension Education*, 10 (3): 71-81.

Erbaugh, J.M., J. Donnermeyer, M. Amujal, and M. Kidoido (2010). Assessing the Impact of Farmer Field School Participation on IPM Adoption in Uganda. *Journal of International Agricultural and Extension Education*. 17: 5 – 17.

Erbaugh, J.M., J. Donnermeyer, M. Amujal, and M. Kidoido. 2010. Assessing the Impact of Farmer Field School Participation on IPM Adoption in Uganda. *Journal of International Agricultural and Extension Education* 17: 5 – 17.

Erbaugh, J.M., P. Kibwika, and J. Donnermeyer. 2006. Assessing Extension Agent Knowledge and Training Needs to Improve IPM Dissemination in Uganda. Accepted for publication. *Journal of International Agricultural and Extension Education*.

Erbaugh, J.M., P. Kibwika, and J. Donnermeyer. 2007. Assessing Extension Agent Knowledge and Training Needs to Improve IPM Dissemination in Uganda. *Journal of International Agricultural and Extension Education*, 14 (1), 59-70.

Geiser, D.M., M.L. Ivey, G.J. Hakija, J.H. Juba and S.A. Miller. 2004. *Gibberella xylarioides* (anamorph: *Fusarium xylarioides*) a causative agent of coffee wilt in Africa is a previously unrecognized member of the *G. fujikuroi* species complex. *Mycologia*.

Hakiza, J.J., E. Adipala, R.M. Kakuhenzire, H.M. Kidanemariam, W. Wagoire, B. Mateeka, R. El-Bedewy, M.O. Olanya, P.T. Ewell, B. Lemaga and A.S. Bhagsari. 2000. Participatory breeding with advanced potato clones of population A in southwestern Uganda. *MUARIK BULLETIN*, 3: 11-18.

Hakiza, J.J., W. Odogola, J. Mugisha, A.R. Semana, J. Nalukwago, J. Okoth and E. Ekwamu. 2004. Challenges and prospects of disseminating technologies through farmer field schools: Lesson learnt based on experience from Uganda. *Uganda Journal of Agricultural Sciences*, 9: 163-175.

Isubikalu, P., A.R. Semana, J.M. Erbaugh and E. Adipala. 2000. Understanding farmer knowledge of cowpea production and pest management: A case study of eastern Uganda, 1999. *MUARIK Bulletin* 3

Isubikalu, P., Erbaugh, J.M., Semana, A.R. and Adipala, E. 2000. The influence of farmer perception on pesticide usage on cowpea field pests in eastern Uganda. *African Crop Science Journal* 8 (3): 319-328.

Isubikalu, P., J.M. Erbaugh, A.R. Semana, and E Adipala, 1999. Influence of farmer production goals on cowpea pest management in eastern Uganda: Implications for developing IPM programs. *African Crop Science Journal*. 7(4): 539-548.

Ivey, M.L., S.A. Miller, G.J. Hakiza and D.M. Geiser. 2003. Characterization of the coffee wilt pathogen in Uganda. *Phytopathology*, 93: S50.

Kaaya, A. N., 2004. Dithane M-45 residues in tomatoes on Ugandan markets may be above safe levels. *African Journal of Food, Agriculture, Nutrition and Development*, 4(1):

Kaaya, A. N., H. Warren and E. Adipala. 2000. Moulds and aflatoxin contamination of maize and groundnuts in Mayuge and Kumi districts of Uganda. *MUARIK Bulletin*, 3:33-41.

Kaaya, A. N., H.L. Warren, S. Kyamanywa, W. Kyamuhangire. 2005. The effect of delayed harvest on moisture content, insect damage, moulds and aflatoxin contamination of maize in Mayuge district of Uganda. *Journal of the Science of Food and Agriculture*, Vol. 85, Issue 15, pages 2595-2599.

## Publications/Products List

- Kamenya, S.N., G.J. Hakiza, G. Tusiime, B.B. McSpadden Gardener and R. Edema. 2006. The potential of Ugandan isolates of fluorescent Pseudomonads for control of Fusarium wilt of coffee and Pythium bean root rot. African Crop Science Conference, Proceedings, Vol. 7: 1257-1265.
- Kangire, A., Musoli, P., Kyetere, D. and Kabole, C. 2006. Coffee wilt disease (CWD) in Uganda: Field expression on the current commercial clonal coffee. African Crop Science Conference, Proceedings, Vol. 7. pp. 331-335.
- Kangire, A., S. Olal, and C. Kabole. 2003. Evaluation of potential sources of inoculum for the coffee wilt epidemics in Uganda. Ugandan Journal of Agricultural Sciences, 8: 37-40.
- Kankwatsa, P., J.J. Hakiza, M. Olanya, H.M. Kidanemariam and E. Adipala. 2003. Efficacy of different fungicide spray schedules for control of potato late blight in Southwestern Uganda. Crop Protection, 22: 545-552.
- Karungi, J., Agamire, P., Kovach, J., and Kyamanywa, S. 2008. Cover cropping with cowpea and novel pesticide usage in the management of pests of hot pepper (*Solanum chinense*) in Uganda. Under review, African Crop Science Journal
- Kasenge, V., Taylor, D.B., Agona, J. A. and Kyamanywa, S. 1999. Economic importance of farm-level bruchid control in stored dry beans and cowpeas in Uganda. MUARIK Bulletin 2: 1-7.
- Kasenge, V., Taylor, D.B., Kyamanywa, S., Bigirwa, G. and Erbaugh, J.M., 2001 "Farm-level evaluation of monocropping and intercropping impacts on maize yields and returns in Iganga District, Uganda." Eastern Africa Journal of Rural Development. 17 (1): 18-24.
- Katwijukye, A.K., S. Kyamanywa, M.W. Ogenga-Latigo & H.R. Wilson. 1999. Beanfly damage and its relationship to bean yield and yield components. Afr. J. Pl. Prot. 9: 9-20.
- Kyamanywa, S., A. Katwijukye and M. Erbaugh, 1998. Pest management in beans: A profitable venture in Uganda, MUARIK Bulletin, 1: 93-100.
- Moyo, S., G.W. Norton, J. Alwang, I. Rhinehart and C.M. Deom. 2007. Peanut research and poverty reduction: Impact of variety improvement to control peanut viruses in Uganda. American Journal of Agricultural Economics, 89: 448-460.
- Mukankusi, C., E. Adipala and H.L. Warren. 1999. Field resistance of ICRISAT groundnut genotypes to groundnut rosette and cercospora leaf spot diseases in eastern and central Uganda. Afr. J. Pl. Prot. 9: 55-68.
- Mukankusi, C., E. Adipala, S. Kyamanywa, G. Epieru, H. Warren, H.R. Wilson and V. Odeke. 1999. Efficacy and economic benefit of different chemical spray regimes on the management of the major pests and diseases of groundnut in eastern Uganda. Afr. J. Pl. Prot. 9:69-81.
- Mukankusi, C., E. Adipala, S. Kyamanywa, G. Epieru, V. Odeke, H.L. Warren and H.R. Wilson. 1999. Effect of host genotype, time of planting and spacing on epidemics of groundnut rosette and Cercospora leaf spot diseases in eastern Uganda. Afr. J. Pl. Prot. 9: 37-53.
- Munyuli, M.B.T., G.C. Luther, and S. Kyamanywa. 2007. Effects of cowpea cropping systems and insecticides on arthropod predators in Uganda and Democratic Republic of the Congo. Crop Protection 26 (2007) 114-126.
- Munyuli, M.B.T., S. Kyamanywa, G.C. Luther and R. Hammond (2006). Effects of groundnut genotypes, cropping systems and insecticide applications on the incidence of native arthropod parasitoids from Uganda and Democratic Republic of the Congo. Indus Journal of Plant Sciences 2006; 5(1): 641-650.

## Publications/Products List

- Munyuli, M.B.T., S. Kyamanywa, G.C. Luther and R. Hammond. 2008. Effects of groundnut genotypes, cropping systems and insecticides on the abundance of native arthropod predators from Uganda and Democratic Republic of Congo. *Bulletin of Insectology* 61 (1): 11-19, 2008
- Nabirye, J., P. Nampala, M.W. Ogenga-Latigo, S. Kyamanywa, H. Wilson, V. Odeke, C. Iceduna, and E. Adipala. 2003. Farmer-participatory evaluation of cowpea integrated pest management (IPM) technologies in Eastern Uganda. *Crop Protection* 22: 31-38.
- Nabirye, J., P. Nampala, P. Kyamanywa, M.W. Ogenga-Latigo, H. Wilson and E. Adipala. 2003. Determination of damage-yield loss relationships and economic injury levels of flower thrips on cowpea in eastern Uganda. *Crop Protection* 22: 911-915.
- Namanda, S., E. Adipala, M. Olanya, and R. El-Bedewy. 2004. On-farm evaluation of fungicide spray options to control potato late blight in South-Western Uganda. *MUARIK Bulletin* 7.
- Namanda, S., E. Adipala, M. Olanya, R. El-Bedewy, J.J. Hakiza, and A.S. Bhagsari. Integration of host resistance and minimum fungicide application for the management of potato late blight in south-western Uganda. *African Crop Science Journal* 9(4):
- Namanda, S., O.M. Olanya, E. Adipala, J.J. Hakiza, R. El-Bedewy, A.S. Bhagsari and P. Ewell. 2004. Fungicide application and host resistance for potato late blight management: benefits assessment from on-farm studies in S.W. Uganda. *Crop Protection*.
- Ochwo M.K.N., S. Kamoun, E. Adipala, P.R. Rubaihayo, K. Lamour and M. Olanya. 2002. Genetic diversity of *Phytophthora infestans* (Mont.) de Bary in the eastern and southwestern highlands of Uganda. *Journal of Phytopathology*, 150 (10).
- Ochwo-Ssemakula M, E Adipala and R Edema. Screening for virus tolerance in select yellow passion fruit types in Uganda. Manuscript being written for submission to the *African Crop Science Journal*.
- Ochwo-Ssemakula M, S Wasike, J J Hakiza, E Adipala and R Edema. Characterization of passion fruit species in Uganda. Manuscript being written for submission to the *HortScience Journal*.
- Ochwo-Ssemakula M, V Aritua, T Sengooba, J J Hakiza, E Adipala, R Edema, P Redinbaugh and S Winter. 2009. The potyvirus infecting cultivated and wild passion fruit in Uganda is a distinctive virus species. Manuscript in the final stages of review for submission to the *Plant Disease Journal*.
- Ochwo-Ssemakula M., V. Aritua, T. Sengooba, J.J. Hakiza, E. Adipala, R. Edema, P. Redinbaugh and S. Winter. The potyvirus infecting cultivated and wild passion fruit in Uganda is a distinctive virus species. Manuscript submitted for publication in *Plant Disease Journal*.
- Ochwo-Ssemakula, M., T. Sengooba, J. J. Hakiza, E. Adipala, R. Edema, M. G. Redinbaugh, V. Aritua and S. Winter. The Characterization and Distribution of a Strain of *Passiflora chlorosis* Virus from Uganda, Paper under review, *Plant Disease*
- Olupot, J.R., D.S.O. Osiru, J. Oryokot and B. Gebrekidan. 2003. The effectiveness of *Celosia argentea* (*Striga* "chaser") to control *Striga* on sorghum in Uganda. *Crop Protection* 22: 463-468.
- Otim, Michael. Farmers' perceptions, incidence and management of tomato fruitworm, *Helicoverpa armigera* in Central Uganda. Submitted to *International Journal of Tropical Science*.
- Pratt, R., S. Gordon, P. Lipps, G. Asea, G. Bigirwa and K. Pixley. 2003. Use of IPM in the control of multiple diseases in maize: Strategies for selection of host resistance. *African Crop Science Journal* 11: 189-198.



## Publications/Products List

Pratt, R.C., P.E. Lipps, G. Bigirwa, and D. Kyetere. 2000. Germplasm enhancement through cooperative research and breeding using elite tropical and U.S. Corn Belt maize germplasm. *African Crop Science Journal* Vol. 8: 345-353.

Sekamate, M.B., S. Kyamanywa, H.R. Wilson & Russell-Smith. 2002. The effect of placement method and rate of application of crushed fish bones on the activity of predatory ants and their impact on termite damage to maize. *Insect Sci. & its Application* Vol. 22 (3).

Willson, H. and S. Kyamanywa. 1999. The Uganda IPM CRSP Project: A Participatory Research Program, 1999. *MUARIK Bulletin* 2.

### **United States**

Naidu, R.A., O.J. Alabi, G. Karthikeyan, M. Nelson and A. Morrell. 2007. First report of *Monarda didyma* infection with *Impatiens necrotic spot virus* in Washington State. *Plant Health Progress*. Doi: 10.1094/PHP-2007-1119-02-BR.

## 2. ARTICLES PUBLISHED IN NON-REFEREED PUBLICATIONS

### Genral

Budiman, D.T. Sembel, M. Tulung 2010. Biologi *Nesidiocoris tenuis* (Hemiptera: Miridae) pada tanaman tomat di Sulawesi Utara. Excepted for publication on *Journal Eugenia* 15 (3)

Dinakaran, D., Bakkiyanathan, C., Anitha, N. S. and Kathiresan, G. 2010. Vengayathil Magasool Izhappai Thavirka Noi Nirvagam. *Uzhavar Oosai* 7: 46-49

Gajendran, G., Anitha .N.S. and Kathiresan, G.2010. Vengayathil Poochi Nirvagam. *Uzhavar Oosai* 6: 19-21

Gajendran, G., Dinakaran, D. and Kathiresan, G. 2010. Venkaya vilaichalai kuraikum poochi noi melanmai. *Uzhavarin Valarum Velanmai*. 1: 33-36

Ingenious Diagnostics Combat Global Plant Disease. 2010. In *On Solid Ground*, CAHNRS and WSU Extension Marketing, News, and Educational Communications, October 6. (<http://cahnrsnews.wsu.edu/2010/10/06/cacao-innovative-diagnostics-tracking-sustainability/>).

Lumowa, S.V.T., D.T. Sembel, J. warouw, J. Pomgoh, J. Pelealu and M.L.A Hosang (Okt. 2009). Eksplorasi *Trichoderma* spp. pada rizosfer tanaman kentang di Kecamatan Modinding. *Eugenia* 15(2): 39-47

Moniaga, W.M., J. Kresen and D.T. Sembel. Okt. 2009. Pengaruh feromon seks “CPB Lure” terhadap hama *Conopomorpha cramerella* Sn pada tanaman kakao. *Eugenia* 15: 80-87)

Sembel, D.T. and W. Moniaga. 2009. Survey hama baru, *Paracoccus marginatus* Williams and Geanara de Willink. Pada tanaman papaya di Sulawesi Utara. *Eugenia* 15(2): 108-114.

Sembel, D.T., J. Kriesen, J. Watung, M. Hammig, G. Carner and M. Shepard. 2009. Parasitasi hama penggorok daun (Diptera:Agromyzidae) pada tanaman tomat di Tomohon dan Minahasa. *Eugenia* 15(2): 69-79

Shepard, B. M., M. D. Hammig, G. R. Carner, P. A. C. Ooi, J. P. Smith, R. Dilts and A. Rauf. 2008. Implementing Integrated Pest Management in Developing and Developed Countries. Pp 271 – 301. In: R. Peshin and A. K. Dhawan (eds). *Integrated Pest Management: Dissemination and Impact*. Springer Science & Business Media B. V.

Strathie, L. and A. McConnachie. 2006. Visit by Dr Mulugeta Negeri. *Plant Protection News* 68: 15

### Africa

Strathie, L. and A. McConnachie. 2006. Weeds Division a key role-player in international collaborative project on management of parthenium in Africa. *Plant Protection News* 67: 12-13

Strathie, L. and McConnachie, A. 2007. Managing the impact of parthenium invasions in Africa. *Biocontrol News and Information* 28(3): 54N-55N.

Strathie, L.. 2006. PPRI Weeds Division a key role-player in international collaborative project on management of parthenium in Africa. *South African Weed Science Society Newsletter* 74: 2-4

### Ukraine

Kharytonov, M. co-authored the following recommendations: Biological preparations and their effective application for vegetable and melon. Kiev, 2005 -12 p. (in Ukrainian)

## Publications/Products List

Maslikova, K., M. Kharytonov and O. Lazareva. Tomato diseases and plant protection approaches. Agroviev magazine, p.10-16, 2005, 26 Dec 2005 (in Ukrainian)

### 3. BOOKS/BOOK CHAPTERS

#### General/Global

- Alwang, J., S.C. Weller, G.E. Sánchez, L. Calderon, C.R. Edwards, S. Hamilton, R. Williams, M. Ellis, C. Suarez, V. Berrera, C. Crissman, and G.W. Norton. 2005. Developing IPM Packages in Latin America. In. Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 71-94.
- Cuyno, L., G.W. Norton, C. Crissman, and A. Rola. 2005. Evaluating Health and Environmental Impacts of IPM. In. Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 245-261.
- Erbaugh, J.M., J. Caldwell, S. Kyamanywa, K. T. Gamby, and K. Moore. 2005. Developing IPM Packages in Africa. In. Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 51-69.
- Garrett, K.A., and C. M. Cox. 2006. Applied biodiversity science: Managing emerging diseases in agriculture and linked natural systems using ecological principles. In. R. Ostfeld, F. Keesing, V. Eviner (eds.) *Cary Conference XI: Infectious disease ecology: the effects of ecosystems on disease and of disease on ecosystems*. Princeton University Press.
- Gilbertson, R. L., M. R. Rojas, and E. T. Natwick. 2011. Development of integrated pest management strategies for whitefly (*Bemisia tabaci*)-transmissible geminiviruses, pp. 323–356. In W. M. O. Thompson (ed.), *The Whitefly, (Homoptera: Aleyrodidae) Interaction with Geminivirus-Infected Host Plants. Bemisia tabaci*. Springer.
- Hamilton, S., K. Moore, C. Harris, M. Erbaugh, I. Tanzo, C. Sachs, and L. A. de Barrios. 2005. Gender and IPM. In. Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 263-289.
- Heinrichs, E.A. and, S.K. De Datta. 2005. Lessons Learned. In Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing. Ames, Iowa. 293-306.
- Karungi, J., S. Kyamanywa, E. Adipala, and J. M. Erbaugh, 2011. Pesticide Utilization, Regulation and Future Prospects in Small Scale Horticultural Crop Production Systems in a Developing Country. Chapter 2. In M. Stoytcheva (ed.), *Pesticides in the Modern World – Pesticides Use and Management*, INTECH Open Access Publishers, ISBN 978-953-307-459-7.
- Lawrence, J., S. Tolin, C. Edwards, S. Fleisher, D.M. Jackson, D. Clark-Harris, S. McDonald, K. Dalip, and P. Chung. 2005. Developing IPM Packages in the Caribbean. In. Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 95-119.
- Luther, G.C., C. Harris, S. Sherwood, K. Gallagher, J. Mangan, and V. Barrera. Chapter 9: The Key Role of Farmer Field Schools. In. Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 159-190.
- Miller, S.A., A.M.N. R. Karim, A. M. Baltazar, E. G. Rajotte, and G. W. Norton. 2005. Developing IPM Packages in Asia. In. Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa, 27-50.
- Mohankumar. S., N. Balakrishnan, and R. Samiyappan. 2011. Biotechnological and molecular approaches in management of insect pests and diseases of crop plants, pp. 400. In D. P. Abrol and U. Shankar (eds.), *Integrated Pest Management: Principles and Practice*, CABI press.

## Publications/Products List

Norton, G.W., E.A. Heinrichs, G.C. Luther and K.E. Erwin. 2005. *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 338p.

Norton, G.W., E.G. Rajotte, and G. Luther. 2005. The Participatory Integrated Pest Management (PIPM) Process. In Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa, Ames. 13-23.

Norton, G.W., J. Tjornhom, D. Bosch, J. Ogrodowczyk, C. Edwards, T. Yamagiwa, and V. Gapud. 2005. Pesticide and IPM Policy Analysis. In Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 191-210.

Norton, G.W., K. Moore, D. Quishpe, V. Berrera, T. Debass, L. Asturias de Barrios, and D.B. Taylor. 2005. Evaluating Socio Economic and Impacts of IPM. In Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 225-244.

Norton, G.W., S.K. De Datta, M. Irwin, E.G. Rajotte, and E.A. Heinrichs. 2005. The Need for Cost-Effective Design and Diffusion of IPM. In Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 3-11.

Paçe, H. 2005. Menaxhimi i integruar i sëmundjeve në pemët frutore. Zjarri bacterial – *Erwinia amylovora*. [Integrated management of fire blight]. IPM CRSP/AL.114 p.

Pfeiffer, D.G., J. Tedeschini, L. Daku, M. Hasani, R. Uka, B. Stamo, and B. Ferraj. 2005. Developing IPM Packages in Eastern Europe: Participatory IPM Research in Albanian Olives. In Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 121-139.

Rajotte, E.G., G.W. Norton, G. Luther, V. Barrera, and K.L. Heong. 2005. IPM Transfer and Adoption. In Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 143- 157.

Ramakrishnan, S., I. Cannayane, E. I. Jonathan, and M. Sivakumar 2010. pp. 84. Technical bulletin on plant nematodes and their management. Sowmiya Printers, Coimbatore.

Sembel, D. T. 2011. Biology and levels of infestation by *Nesidiocoris tenuis* on tomato crops in N. Sulawesi, Indonesia ( In. Press). Publication of new text book: *Pengendalian Hayati Hama-Hama Tanaman Pertanian Tropis dan Gulma (Biological Control of Insect pests of tropical crops and weeds)*. Penerbit Andi Yogyakarta.

Sullivan, G.H., J. Julian, G. Sánchez, S. Weller, and G.W. Norton. 2005. Pre-inspection IPM for Export Horticulture Markets. In Norton et al.: *Globalizing Integrated Pest Management: A Participatory Research Approach*. Blackwell Publishing, Ames, Iowa. 211-222.

### Albania

Pertena, D., E. Susaj, Sh. Shahini. E. Çota, V. Jovani, H. Paçe, J. Mërkuri and J. Tedeschini. 2005. Integrated vegetable production in greenhouses. IPM CRSP/AL. Plant Protection Institute. Durrës, Albania. 119 p.

Tedeschini, J. 2005. Menaxhimi i integruar i mizës së ullirit [Integrated management of olive fruit fly]. IPM CRSP/AL. Plant Protection Institute. Durrës, Albania. 28 p.

Tedeschini, J., B. Stamo and D. Pfeiffer. 2006. Menaxhimi i parazitëve ne ullishtet organike. [Pest management in organic olives.] Plant Protection Institute. Durrës, Albania. 135 p.

Tedeschini, J., B. Stamo, and D. Pfeiffer. Menaxhimi i Integruar i Parazitëve të Ullirit. USAID, IPM-CRSP. Tirana, Albania. 113 p.

### **Eastern Europe**

Dhileepan, K. and L. Strathie. 2009. *Parthenium hysterophorus* L. (Asteraceae). In: *Biological Control of Tropical Weeds using Arthropods*, ed. R. Muniappan, G.V.P Reddy, and A. Raman. Cambridge University Press, pp. 274-318.

Hailu B, L.Gebrehiwot, S. Regassa, M. Dejene, B. Tadesse, T. Tana, L. Nigatu, A. Dejen and W. Mersie. 2008 *The Impact of the Invasive Weed Parthenium (Parthenium hysterophorous L.) on the Lives of Farmers and Agro-pastoralists in Ethiopia*. Submitted to *East African Journal of Sciences (EAJS)*.

Junusov K., M. I. Aitmatov, B. A. Tashpulatova, N. Saidov, Z. Pulatov. 2011. pp. 63. *Russian- Uzbek- English-Latin Dictionary*.

Lisanework N, A. Hassen, J.J. Sharma and S. Adkins. 2009. *Impact of Parthenium hysterophorus L. on grazing land communities in North-Eastern Ethiopia*.

McConnachie, A.J., L.W. Strathie, W. Mersie, L. Gebrehiwot, K. Zewdie, A. Abdurehim, B. Abrha, T. Araya, F. Asaregew, S. Assefa, R. Gebre-Tsadik, L. Nigatu, B. Tadesse and T. Tana. 2009. *Current and potential geographical distribution of the invasive plant Parthenium hysterophorus (Asteraceae) in eastern and southern Africa*. Submitted to *Biological Invasions*.

Nigatu L, A. Hassen, and J.J. Sharman. 2008. *The impact of parthenium on herbaceous vegetation and soil seed bank flora in sorghum fields in North Eastern Ethiopia*” *Ethiopian Journal of Weed Management*, 2:

Tashpulatova B.A., and M. I. Rashidov. 2011. pp. 27. In *Tomato production and its protection from pests and diseases*. (Russian).

### **Ecuador**

Barrera, V., L. Escudero, G. Norton, and J. Allwang. 2004. *Encontrando salidas para reducir los costos y la exposición a plaguicidas en los productores de papa: Experiencia de la intervención en la provincial del Carchi, Ecuador*. INIAP, IPM-CRSP, CROPLIFE, FAO. Quito, Ecuador. 122 p.

Vera, D.; C. Suárez; I. Carranza, C. Belezaca; M. Ellis; R. Williams. 2002. *Manejo Integrado de Enfermedades en la Rehabilitación del Plátano*. In *Foro Técnico Platanero*. PROMSA, TTA. El Carmen - Ecuador. 8p.

### **Guatemala**

Asturias de Barrios, L., L. Mazariegos, B. Tevalán, and R. Rubio. 1996. *Producción agrícola en Santa Maria Cauqué*. Guatemala: ASIES.

Carroll, C.R., A. Dix, J. Kettler. 1997. *Tropical Agroecology: Two paths towards sustainability*. In: *Conservation Biology : The Theory and Application*, P. L. Fiedler and P. Kareiva (eds.), Chapman and Hall Publ.

### **Honduras**

Argüello, H., L. Lastres, A. Rueda, M. Rivera. 2007. *Guía para el reconocimiento y manejo de virosis en cultivos hortícolas*. Escuela Agrícola Panamericana. Zamorano, Honduras. ISBN: 1-885995-65-2

Argüello, H., L. Lastres, A. Rueda. 2007. *Manual MIP en cucúrbitas*. Escuela Agrícola Panamericana. Zamorano, Honduras. ISBN: 1-885995-64-4

### **India**

Forbes, G. A., N. J. Grunwald, E. S. G. Mizubuti, J. L. Andrade-Piedra, and K. A. Garrett. 2006. (in review). Potato late blight in developing countries. In: R. Peters, (ed.) Current Concepts in Potato Disease Management. Research Signpost, Kerala, India.

Kumar. N., and L. Pugalendhi. 2010. Horticultural technologies. (Tamil).TNAU, Coimbatore.

Navamaniraj, N. K., P.R. Renugadevi, and L. Pugalendhi. 2010. Muskmelon. pp.225-245. In K. Vanangamudi, M. Prabhu, S. Kalaivani, M. Bhaskaran, and V. Manonmani (eds.), Vegetable Hybrid Seed, Agrobios, New Delhi, India.

Pugalendhi, L., and P. Paramaguru. 2010. Vegetable cultivation in cauvery Delta Zone. pp. 15-22. In E. Vadivel (ed.), Possibilities of horticultural crops under cauvery delta zone, Technology training Guide, TNAU AGRITECH PORTAL, E-extension, TNAU, Coimbatore.

Ramakrishnan, S., I. Cannayane, E. I. Jonathan, and M. Sivakumar. 2011. pp. 100. Plant Nematodes, Sowmiya, Communications, Coimbatore, Tamil Nadu. (ISBN No:978-81-920300-1-2) (In Tamil version).

Vadivel. E, S. Natarajan, L. Pugalendhi, and S. Sasikala. 2010. Amaranth (CHAULAI). pp. 287-303. In M. Rana (ed.), Scientific cultivation of vegetables, CCS Haryana Agricultural University, Haryana, Kalyani Publishers, New Delhi.

Vadivel. E, S. Natarajan, L. Pugalendhi, and V. Amarnath. 2010. Arum (TARO). pp. 529-551. In M. Rana (ed.), Olericulture in India, Agricultural University, Kalyani Publishers, New Delhi.

### **Philippines**

Heong, K.L., A.A. Lazaro, and G.W. Norton. 1997. Pest management perceptions and practices of farmers growing rice and vegetables in Nueva Ecija, Philippines. Chapter 11 in Heong, K.L. and M.M. Escalada (eds.). *Pest Management of Rice Farmers in Asia*. International Rice Research Institute, Philippines.

### **Uganda**

Adipala, E. and P. Okori. 2004. Designing and Managing Research. In: The Green Book. B.K. et. Al. (eds.)

Ochwo-Ssemakula, M., T. Sengooba, J. J. Hakiza, E. Adipala, R. Edema, M. G. Redinbaugh, V. Aritua, and S. Winter. 2011. The Characterization and distribution of a Potyvirus associated with passion fruit woodiness disease in Uganda. Plant disease.. In Pengendalian Hayati Hama-Hama Tanaman Pertanian Tropis dan Gulma (Biological Control of Insect pests of tropical crops and weeds). (in press). DOI: 10.1094/PDIS-03-11-0263

### **Ukraine**

Gadzalo, Y., G. S. Shestopal and Y. S. Shestopal. Intensive Technologies for Small Fruit Production. Svit Publishing, L'viv, Ukraine. 272 p.

Three publications promoting IPM practices in fruit crops were published: Shestopal, G., and D. Pfeiffer. 2008. Apple - A Commercial Crop for Ukraine. Ukraine. 256 p. 20 pls.

Shestopal, Z. A., A. T. Koval and G. S. Shestopal. A Manual for Orchard and Small Fruit Producers. Svit Publishing, L'viv, Ukraine. 280 p.

## 4. THESES AND DISSERTATIONS

### General/World

Rajeshkumar, J. 2011. Up scaling pheromone technology for *Leucinodes* and *Helicoverpa*, Chairman: C. Durairaj.

Selvam, V. 2011. Silencing chitin synthase gene in *Spodoptera litura* using RNAi approach, Chairman: S. Mohankumar.

Selvamuthukumar, G. 2011. Studies on seasonal incidence and management of onion pests, Chairman: Dr. G. Gajendran.

Zaman, Faruque. 2008. A Comparison of Univoltine and Multivoltine European Corn Borer (*ostrinia nubilalis* Hubner): Life History Characters, Bt Toxin Susceptibility, Parasitoid Impact and Population Pattern. Ph.D. Dissertation. Penn State University, University Park, PA.

### Africa

King, H. 2008. Thermal physiology and predictive modeling of *Zygogramma bicolorata*: a potential biological control agent for *Parthenium hysterophorus* in South Africa. University of KwaZulu-Natal. Unpublished MSc thesis.

Taylor, J. M. 2007. Seed bank studies of the alien invasive weed, *Parthenium hysterophorus*, in the eastern areas of South Africa. University of KwaZulu-Natal, BSc Honours Ecological Sciences (Rangeland & Wildlife Conservation).

### Bangladesh

Debass, T.. 2001. An Economic Impact Assessment of IPM-CRSP Activities in Bangladesh and Uganda: A GIS Application. M.S. Thesis, Virginia Polytechnic Institute and State University, June 2001.

Kodamanchaly, J. S.. 2001. Women's status and adoption of integrated pest management: A study of rural Bangladesh. (PhD dissertation, Rural Sociology and Demography, Penn State University).

Mahmoud, C. S.. 2001. The Economics of Agricultural Diversification in Bangladesh: A Case Study of Vegetables and IPM in a Rice Based Farming System. M.S. Thesis, Purdue University, December 2001.

Rakshit, A.. 2008. "Integrated Pest Management in Bangladesh: An Impact Assessment of Pheromone Adoption for Cucurbit Crops," M.S. Thesis, Virginia Tech, September 2008.

Rakshit, Atanu, Integrated Pest Management in Bangladesh: An Impact Assessment of Pheromone Adoption for Cucurbit Crops, M.S. Thesis, Virginia Tech, Blacksburg, VA.

Victoria, M.. 2007. Agricultural Technology in Bangladesh: A Case Study on Non-farm Labor and Adoption by Gender, M.S. thesis, Virginia Tech, June 2007.

### Brazil

Coello, D.I.V.. 2003. Componentes Epidemiológicos e Progresso da Sigatoka Negra em Bananeira e Bananeria-da-Terra. M.S. Thesis, Universidade Federal de Viçosa, 2003.

### Central America

Yamagiwa, T. 2004. A Systematic Assessment of the Incidence of Technical Regulations in Central American Agricultural and Food Trade. Ph.D. Thesis, Virginia Polytechnic Institute and State University, April 2004.



### East Africa

Hristovska, Tatjana, 2009. Economic Impacts of Integrated pest Management in Developing Countries: Evidence from the IPM CRSP. Unpublished Masters Thesis. Virginia Tech University

### Eastern Europe

Edessa, S. 2009. Effectiveness and Biology Studies of *Zygogramma Bicolorata* P. (Coleoptera: Chrysomelidae) on *Parthenium Hysterophorus* L. and Safety Tests on Some Related Plant Species from Astreaceae Family under Quarantine Conditions, Ambo University, MS Thesis.

### Ecuador

Arroyo M.M.O. 2000. Estrategia de control del ácaro (*Eotetranychus nr deflexus* McGregor) en el cultivo de babaco (*Carica pentagona* Heilbornni) bajo invernadero en la Provincia de Pichincha. Tesis de Ingeniero Agrónomo. Universidad Central del Ecuador. Quito. (Funded by IPM CRSP through INIAP.)

Buck, S.. 2006. The Role of Trust in Knowledge Acquisition, Technology Adoption and Access to Bank Loans: Results from Field Experiments in the Ecuadorian Amazon. M.S. Thesis, Department of Agricultural and Applied Economics, Virginia Tech, April 24th, 2006, 113 pp.

Cabanilla, M. 2004. Evaluación económica de tecnologías para rehabilitación y renovación de plataneras y proyección del impacto económico a generar con su adopción en la zona de El Carmen, Provincia de Manabí. Tesis de Ingenieria en Administración de Empresas Agropecuarias. Quevedo, Ecuador. Universidad Técnica Estatal de Quevedo.

Carrasco Quintana, I.G. 2003. Evaluacion de productos biologicos para el control de *Phyllophaga* sp. (Cutzo) en el cultivo de mora de castilla (*Rubus glaucus* Benth). Thesis. Universidad Estatal de Bolivar, Guaranda, Ecuador.

Fonseca Vivanco, G.G. 1999. Diagnostico de las enfermedades del babaco (*Carica pentagona* Heilb.) en Pichincha y Tungurahua. Thesis. Central University of Ecuador. Faculty of Agricultural Science. Quito/Ecuador.

Franklin L., Maignushca T. 2002. Evaluation of eight insecticides with a low human toxicity, for the control of the larval stage of the Andean potato weevil, *Premnotrypes vorax* under laboratory and field conditions. A thesis presented to the Faculty of Agricultural Sciences in the Central University of Ecuador.

Galarza, V. 2002. Estudio de la afinidad de especies de caricaceae como patrones de babaco (*Carica heilbornii* nothovar pentagona) y su reacción a *Fusarium oxysporum*. BSC.thesis: Universidad Central del Ecuador. Facultad de Ciencias agrícolas. Quito\_Ecuador.

Garcés, Sandra, Victoria. 2004. Potential of Entomopathogenic Nematodes and Their Symbiotic bacteria and Preliminary Assessment of *Harmonia axyridis* (Pallas) (Coleoptera : Coccinellidae) for Control of Grape Phylloxera (Hemipter : Phylloxeridae). Master Thesis. The Ohio State University.

Jaramillo, A. 2002. “Estudio del antagonismo de diferentes suelos del Ecuador para el control de patógenos causantes de enfermedades radiculares en chamburo (*Carica pubescens*)”. BSC.thesis: Universidad Central del Ecuador. Facultad de Ciencias agrícolas. Quito\_Ecuador.

Lamulle, M.. 2004. “Evaluación económica de tecnologías para rehabilitación y renovación de plataneras y proyección del impacto económico a generar con su adopción en la zona de el Carmen provincial de Manabí. Thesis for becoming AgroBusiness Engineer. Universidad Técnica Estatal de Quevedo. Quevedo, Ecuador.

## Publications/Products List

Leon Tapia, D. 1999. Control químico del agente causal de la marchitez vascular (*Fusarium oxysporum*) en Babaco (*Carica pentagona*). Thesis. Central University of Ecuador. Faculty of Agricultural Science. Quito/Ecuador.

Llangari, B. 2000. Patogenicidad y rango de hospederos de *Fusarium oxysporum* aislados de plantas de babaco, naranjilla, clavel y tomate. Catholic University of Ecuador. Faculty of Biology. Quito/Ecuador.

Ochoa. J. B., Ellis M.A. and Alwang. J. 2010. El tizon y lancha blanca de la naranjilla y su control. Booklet No 325, INIAP, Quito-Ecuador.

Ochoa. J. B., Ellis M.A. and Alwang. J. 2010. La “Fusariosis” de la naranjilla y su control. Booklet No 323, INIAP, Quito-Ecuador.

Ochoa. J. B., Ellis M.A. and Alwang. J. 2010. Ojo de pollo de la naranjilla y su control. Booklet No 324, INIAP, Quito-Ecuador.

Pilar, J.. 2007. Quality Incentives and the Development of High-value Agrifood Markets: Ecuador's Cacao Marketing Chain. M.S. Thesis, Department of Agricultural and Applied Economics, Blacksburg, Virginia Tech.

Quishpe Sinailin, P.D. 2001. Economic evaluation of the changes of the integrated pest management technologies on potato producers from the Ecuadorian highlands. Thesis, Central University of Ecuador.

Reyes, X. & Quijije, R. 2000. “Determinación del comportamiento de los picudos negro y rayado en cormos de plátano barraganete”. Tesis de Grado, Instituto Técnico Superior Agropecuario “Ciudad de Valencia”. Los Rios, Ecuador.

Rivera, R. 2004. Determinación cualitativa y cuantitativa de nemátodos en áreas plataneras del Trópico húmedo del Litoral ecuatoriano. Tesis de Ingeniero Agrónomo. Guayaquil, Ecuador. Universidad de Guayaquil.

Vera, D. 2003. Epidemiologia comparativa da Sigatoka Negra em bananeira e bananeira-da-terra no Equador. M. Sc. Thesis. Viçosa, Brasil. Universidade Federal de Viçosa.

Vizúete S., M.F. 2000. Patogenicidad de *Fusarium oxysporum*, causante de la Marchitez Vasculare, sobre diferentes especies de la familia Caricaceae. Catholic University of Ecuador. Faculty of Biology. Quito/Ecuador.

Yamagiwa T.J. 1998. “Analysis of Policies Affecting Pesticide Use in Ecuador”, MS Thesis, Virginia Tech, February, 1998.

Yangari Enriquez, B.F. 2001. Patogenicidad y rango de hospederos de *Fusarium oxysporum* aislados de plantas de babaco, naranjilla, tomate y clavel. Catholic University of Ecuador. Faculty of Biology. Quito/Ecuador.

### **Ethiopia**

Ayele, S.. 2007. The impact of *Parthenium hysterphorus* on the range ecosystem dynamics of the Jijiga rangeland, Ethiopia. M.S. Thesis, Haramaya University, April 2007.

### **Guatemala**

Chiriboga, G. (supervised by MM Doyle), 2000. Caracterización del cultivo de papaya como producto con potencial para exportación, con énfasis en el diagnóstico molecular y serológico de enfermedades. Tesis de grado para Ingeniero Agrónomo, Carrera de Ciencia Y Producción Agropecuaria, Escuela Agrícola Panamericana, Zamorano, Honduras. Nov. 2000. 50 pp.

## Publications/Products List

- Dix, A. 1997. The biology and ecology of broccoli white grubs (Coleoptera: Scarabaeidae) in the community of Chilasco, Baja Verapaz, Guatemala: An integrated approach to pest management. University of Georgia (Ph.D. dissertation).
- Julian, J.W. 1999. An Assessment of the Value and importance of the Quality Assurance Policies and Procedures to the Guatemalan Snow pea Trade. M.S. Thesis. Department of Horticulture and Landscape Architecture, Purdue University, West Lafayette, IN.
- Julian, J.W. 2003. Assessment of the impact of import detentions on the competitiveness of Guatemalan snow peas in U.S. markets. PhD dissertation. Purdue University, West Lafayette, IN.
- Lamport, P.P. 1999. Master of Science Thesis "Development of IPM Techniques for the Control of the Pea Leaf miner *Liriomyza huidobrensis* (Blanchard) on Snow Peas, *Pisum Sativum* L." Purdue University, December 1999, Major Professors: S. C. Weller and C. R. Edwards.
- Morales, E.H. 1998. Pest Control and Soil Management in the Guatemalan Highlands: Understanding Traditional Agricultural Practices. Natural Resources and Environment, The University of Michigan. (Ph.D. dissertation), 123 pp. Roger Williams of Ohio State University was a member of the Doctoral Committee.
- Ralda, C. 1998. Identificación de enfermedades bacteriales en melón. Tesis. Universidad del Valle de Guatemala. Guatemala, 70 pp.
- Tevalán, B. (1999). La división del trabajo por género en la producción agrícola de Santa María Cauqué durante la segunda mitad del siglo XX. Universidad del Valle de Guatemala. Licenciatura thesis.
- Zebra Chip for Licenciatura in Biology degree, University del Valle de Guatemala.

## Honduras

- España Rivera, E.O. 1997. Comparative efficacy and profitability of biological, botanical, and synthetic insecticides for the control of earworm caterpillars (*Spodoptera frugiperda* and *Helicoverpa zea*) in sweet corn [in Spanish]. Ingeniero Agrónomo thesis, Department of Crop Protection, Panamerican Agricultural College, El Zamorano, Honduras.
- Norman, O. D. 2006. Effect of the orientation, number and type of nozzle of the spraying equipment used for the control of *Thrips tabaci* in onions with pesticides. Undergraduate thesis in Agronomy at the Private University of San Pedro Sula, Cortés, Honduras. 92 pp.
- Rivera, M. 2009. Manejo seguro de Pesticidas Agrícolas" (Safe Use of Agricultural Pesticides) FHIA, Honduras.

## Jamaica

- McDonald, S.A. 2001. Epidemiology, aphid vectors, impact and management of tobacco etch potyvirus in hot peppers in Jamaica. Ph. D. Dissertation, Virginia Polytechnic Institute and State University, 112 pp.
- Ogrodowczyk, J. 1998. Policies Affecting Production Practices and Adoption of Integrated Pest Management for Jamaican Farmers in Ebony Park, Clarendon. M.S. thesis, Virginia Tech. December, 204 pp.
- Schlosser, G.L. 1999. Gendered Production Roles and Integrated Pest Management in Three Jamaican Farming Communities. MS Thesis, Dept. of Geography, Virginia Tech.
- Schlosser, T.C. 1999. Local Realities and Structural Constraints of Agricultural Health: Pesticide Poisoning of Jamaican Small-holders. MS Thesis, Dept. of Geography, Virginia Tech.

### **Indonesia**

Baideng, E. L.. 2006. Penerapan Pengendalian Hama Terpadu Pada Tanaman Kubis di Rurukan Kota tomohon. (Application of The Integrated pest Control on Cabbage Crops in Rurukan, Tomohon City). MS Thesis, Entomology, Program Pascasarjana Universitas Sam Ratulagi, Manado, Indonesia.

Budiman, A. A.. 2008. Biologi Dan Ecologi *Cyrtopeltis tenuis* (Hemiptera; Miridae) Pada Tanaman Tomat (The Biology and Ecology of *Cyrtopeltis tenuis* (Hemiptera; Miridae) on Tomato Plants. MS Thesis, Entomology, Program Pascasarjana Universitas Sam Ratulangi, Manado, Indonesia.

Wowor, J.. 2006. Pengaruh Ukuran Kurungan dan Jenis Pakan Terhadap parasitoid *Diadegma semiclausum* HELLEN (Hymenoptera; Ichneumonidae) dalam Meningkatkan Efektivitasnya sebagai Musuh Alami *Plutella xylostella* LINN (Lepidoptera; Yponomeutidae). The Influence of Cage and Varieties of Food Effects on Parasitoid *Diadegma semiclausum* HELLEN (Hymenoptera; Ichneumonidae) to Increase its effectiveness as Natural Enemy of *Plutella xylostella* LINN (Lepidoptera; Yponomeutidae). MS Thesis, Entomology, Program Pascasarjana Universitas Sam Ratulangi, Manado, Indonesia.

### **Mali**

Dem, S. B. 2004. MS Life Sciences. Entomology Department, VPI&SU. Thesis title: Environmental Study of Pesticide Residues In Soils And Water In Cotton Growing Areas In Mali. 141pp.

Goita J. 1999: Etude des traitements herbicides des semences de sorgho et de mil contre le *Striga hermonthica*. Thesis for end of cycle of IPR/IFRA, sufficient to receive an Engineer diploma. December, 50p.

Jenkins, D. A. 1998. Sustainable use of neem in Malian villages. Thesis submitted in partial fulfillment of the requirements for the degree M.S. in Entomology. Montana State University-Bozeman. 57pp.

Nantoume, A. D. 2004. Memoire de D.E.A. Contribution à l'étude sur la recherche et le développement de méthodes de lutte contre la virose de la tomate (*Lycopersicum esculentum*) au Mali. Masters' degree thesis, ISFRA/University of Bamako.

Russ, A. 1996. Gender differentiated constraints in Malian semi-subsistence production: Implications for integrated pest management and food security. Department of Agricultural and Applied Economics. Virginia Polytechnic Institute and State University. (Major professor: D. Taylor). 205pp.

### **Philippines**

Bayer, J.. 2007. Biotechnologies in the Philippines: The Cost of Regulation, M.S. thesis, Virginia Tech.

Casimero, M.C. 2000. Population dynamics, growth and control of weeds in rainfed rice-onion cropping systems. Ph.D. Thesis. University of the Philippines Los Baños. College, Laguna. 139 p.

Cuyno, L.. An Economic Evaluation of the Health and Environmental Benefits of the IPM CRSP Program in the Philippines, PhD. Thesis, Virginia Tech.

Mamaril, C.B. 2002. Transgenic Pest Resistant Indica Rice: An Ex-ante Economic Evaluation of an Adoption Impact Pathway in the Philippines and Vietnam for Bt Rice, M.S. thesis, Virginia Tech.

Suiza, R.C. 1996. Host-plant resistance in eggplant germplasm to cotton leafhopper, *Amrasca biguttula* (Ishida)., UPLB, PhilRice, IPMCRSP, AVRDC. (M.S. thesis)

Tjornhom, J. 1995. Assessment of policies and socio-economic factors affecting pesticide use in the Philippines. Virginia Tech. (M.S. thesis)

### **South Asia**

Harris, L. 2011. Modeling a Cost-Effective IPM Dissemination Strategy for Vegetables and Rice: An Example in South Asia. M.S. Thesis, Virginia Tech.

### **Tanzania**

Bulali, J. Assessment of the relative importance of tomato (*Lycopersicon esculentum* Mill.) pests in Morogoro, Tanzania. 2008 Sokoine University of Agriculture. Unpublished M.Sc Thesis (Supervisor: Prof. K.P. Sibuga – SUA)

Mtui, H.. 2007. Seed biology based interventions for enhanced integrated crop management in tomato production by small scale farmers in the Morogoro region, Tanzania. Unpublished M.S. Thesis. The Ohio State University. September, 2007. Advisors: Mark Bennett, Matt Klienhentz, Sally Miller, and A. Maerere.

Mtui, Hossea. Seed biology based interventions for enhanced integrated crop management in tomato production by small scale farmers in the Morogoro region, Tanzania. Unpublished Masters Thesis. The Ohio State University. September, 2007. Advisors: Mark Bennett, Matt Klienhentz, Sally Miller, and A. Maerere.

Mtui, Hossea. Seed biology based interventions for enhanced integrated crop management in tomato production by small scale farmers in the Morogoro region, Tanzania. Unpublished Masters' Thesis. The Ohio State University. September, 2007. Advisors: Mark Bennett, Matt Klienhentz, Sally Miller, and A. Maerere

### **Uganda**

Aluba, J.A.. 2002. Sources of resistance to and spread of *Cercospora zea-maydis* from inoculum source in maize. M.S. Thesis.

Amujal, M.. 2003. Assessing the Influence of Farmer Field Schools on Adoption of IPM Technologies by Cowpea Farmers in Eastern Uganda. M.S. Thesis. Makerere University.

Asea, G.. 2001. Development of inoculation procedures to evaluate partial resistance to *Cercospora zea-maydis* on young maize plants. M.Sc. Thesis.

Bonabana-Wabbi, J.. 2002. Assessing Factors Affecting Adoption of Agricultural Technologies: The Case of Integrated Pest Management (IPM) in Kumi District, Eastern Uganda. M.S. Thesis, Virginia Tech.

Debass, T. 2001. An Economic Impact Assessment of IPM-CRSP Activities in Bangladesh and Uganda: A GIS Application. MS Thesis, Virginia Polytechnic Institute and State University, June 2001.

Isubikalu, P. 1998. Understanding Farmer Knowledge of Cowpea Production and Pest Management: A Case Study in Eastern Uganda. M.S. thesis. Department of Agricultural Extension/Education, Makerere University. (Dr. J. Mark Erbaugh thesis supervisor along with Dr. A.R. Semana, Dept. Chair.). Rockefeller Foundation provided majority support, with supplemental support for student and travel support for the supervisor provided by IPM CRSP.

Kauma, M.T. 2000. Yield Losses Caused by Stem Borers on Maize and Establishment of *Cotesia flavipes* Cameron (Hymenoptera: Braconidae) in Eastern Uganda. MS Thesis.

Lerner, K. E. 2004. Damage-Yield Relationships of Thrips and the Influence of Various Management Practices on Thrips and Other Major Pests of Tomatoes in Central Uganda. MS Thesis. Makerere University.

Lubadde, G. 2004. Significance of infected planting materials and alternative hosts of *Fusarium xylarioides* Steyaert in transmission of coffee wilt disease. MS thesis.

## Publications/Products List

- Mukankusi, C. 2001. Development of an Integrated Pest Management Strategy for Groundnut Rosette and Cercospora Leaf Spot Diseases in Uganda. MS Thesis.
- Munyuli, T.M.B. 2003. Species diversity, abundance and impact of indigenous natural enemy of cowpea pests in eastern Uganda and Democratic Republic of Congo. MS Thesis.
- Nabirye, J. 2001. Thesis: Determination of Economic Injury Levels (EILs) on Cowpea and Verification of Cowpea Integrated Pest Management (IPM) Technologies in Eastern Uganda.
- Nakelet, O. H. 2004. Integrated Field Management of Cowpea Pests Using Selected Synthetic and Botanical Pesticides. Masters' Thesis. Makerere University.
- Nakkazi, J. 2002. A study on the field management of post-podding pests and bruchids of cowpeas using botanicals. MS Thesis, Makerere University.
- Namanda, S. 2002. Integration of host resistance and minimum fungicide spray schedules in management of potato late blight in Uganda. MS Thesis. (Defended his thesis in April, 2002 and still making final corrections.)
- Ochwo-Ssemakula M. 2008. Occurrence, identification and characterization of viruses infecting passion fruit in Uganda. *PhD thesis, Makerere University.*
- Ochwo, M.K.N. 2002. Genetic diversity of *Phytophthora infestans* in Uganda. MS Thesis, Makerere University, Kampala, Uganda. 76pp
- Olupot, R. 2002. Development of an integrated Striga management strategy for small scale sorghum farmers in eastern Uganda. MS Thesis.
- Opolot, H.N. 2004. Integrated field management of cowpea pests using selected synthetic and botanical pesticides. MS Thesis.
- Orawu, M. 2002. Assessment of the occurrence of cowpea disease and insect pests under different management practices in eastern Uganda. MS Thesis.
- Sseruwu, G. 2003. Fungal microflora causing maize ear rot in Uganda. MS Thesis.
- Wasukira, A. 2004. Assessment of the infection avenues of *Fusarium xylarioides* into coffee and histopathology of the inoculated coffee tissues. MS Thesis.

## 5. IPM CRSP ANNUAL REPORTS AND HIGHLIGHTS

IPM CRSP Management Entity, OIRD, Virginia Tech. 1995. IPM CRSP First Annual Report, 1993-1994. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 1996. IPM CRSP Second Annual Report, 1994-1995. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 1997. IPM CRSP Third Annual Report, 1995-1996. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 1998. IPM CRSP Fourth Annual Report, 1996-1997. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 1999. IPM CRSP Fifth Annual Report, 1997-1998. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 2000. IPM CRSP Sixth Annual Report, 1998-1999. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 2001. IPM CRSP Seventh Annual Report, 1999-2000. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 2002. IPM CRSP Eighth Annual Report, 2000-2001. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2003. IPM CRSP Ninth Annual Report, 2001-2002. OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2004. IPM CRSP Tenth Annual Report, 2002-2003. OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2005 IPM CRSP Twelfth Annual Report, 2004-05. (OIRED), Virginia Tech. (LAG-G-00-93-00053-00)

IPM CRSP Management Entity, OIRED, Virginia Tech. 2005 IPM CRSP Annual Report for Year One, 2004-05. (OIRED), Virginia Tech. (EPP-A-00-04-00016-00)

IPM CRSP Management Entity, OIRD, Virginia Tech. 1998. IPM CRSP Highlights, 1993-1998. OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 1999. IPM CRSP Annual Highlights for Year 6 (1998-1999). OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 2000. IPM CRSP Annual Highlights for Year 7 (1999-2000). OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRD, Virginia Tech. 2001. IPM CRSP Annual Highlights for Year 8 (2000-2001). OIRD, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2002. IPM CRSP Annual Highlights for Year 9 (2001-2002). OIRED, Virginia Tech.

## Publications/Products List

IPM CRSP Management Entity, OIRED, Virginia Tech. 2003. IPM CRSP Annual Highlights for Year 10 (2002-2003). OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2004. IPM CRSP Annual Highlights for Year 11 (2003-2004). OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2005. IPM CRSP Annual Highlights for Year 12 (2004-2005). OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2004. IPM CRSP Summary Highlights for Phase II 1998-2004. OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2005-2006. IPM CRSP Annual Report for Phase III, Year Two, OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2006-2007. IPM CRSP Annual Report for Phase III, Year Three, OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2008-2009. IPM CRSP Annual Report for Phase III, Year Four, OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2009-2010. IPM CRSP Annual Report for Phase III, Year Five, OIRED, Virginia Tech.

IPM CRSP Management Entity, OIRED, Virginia Tech. 2010-2011. IPM CRSP Annual Report for Phase IV, Year One, OIRED, Virginia Tech.



## 6. EXTENSION PUBLICATIONS/MANUALS

### General

Kyamanywa S., M. Otim, P. Okori, K. Jeninah & A. Agona. A manual for pesticide dealers and applicators on safe handling and application of pesticides.

Pamphlets for Sample Collection. An update was made of the three pamphlets that instruct on how to properly collect samples for submission to FHIA's plant pest diagnostic clinic. A total of 3,000 numbers of each of the Plant Pathology, Entomology and Nematology pamphlets were printed.

Robinah S. N., Z. Muwanga, and T. Omara (2006). Management of Bacterial Wilt of Tomatoes through Grafting onto Indigenous Resistant Rootstocks (in Luganda for Farmers). She has also developed a Teaching Aid video on grafting of tomatoes.

Titles: (1) Matumizi ya Matandazo kwenye Kilimo cha Nyanya (Use of Mulch in Tomato Cultivation); (2) Magonjwa ya Nyanya Morogoro (Common TOMATO Diseases in Morogoro)

### Albania

Tedeschini, J.. 2005. Menaxhimi i Integruar i Mizës së Ullirit. IPM CRSP / AL Project publication. Tirana, 2005.

### Bangladesh

Karim, A.N.M.R. *et al.* 2001. Integrated Pest Management Collaborative Research Support Program (IPM CRSP) in Bangladesh: An Overview. IPM CRSP Publication for 2001 Farmer Field Day. 8 pp.

Karim, A.N.M.R. *et al.* 2003. An Overview: Integrated Pest Management Collaborative Research Support Program (IPM CRSP) in Bangladesh. IPM CRSP Publication for January 2003 Farmer Field Day. 9 pp.

Rahman, M.A., A.N.M.R. Karim, S. Miller, E.G. Rajotte, M.S. Nahar, I. Faruk, and H.S. Jasmine. 2004. Soil Amendment Practices for Managing Soil Borne Diseases to Grow Healthy Vegetable Seedlings and Crops in Bangladesh. BARI Extension Publication.

### Central America

Arguello, H., L. Lastres, A. Rueda. 2007. (Ed.) IPM Manual in Cucurbits. Integrated Pest Management Program for Central America, (PROMIPAC-ZAMORANO-COSUDE). Science and Production Department. Zamorano University, Zamorano Academic Press, Honduras. 244 p.

### Central Asia

Hamraev A.S., N.S. Saidov, M.B. Aitmatov, S.A. Azimov, S.B. Ulmesbaev and B.A. Tashpulatova. 2008. Agroentomological cartogram for Central Asia and Caucasus regions.

ICARDA-Michigan and Uzbek zoology institute of academy of sciences. 2008. Tashkent, 123 p, in Russian.

Junusuv K., M. Rashidov and M. Aitmatov. 2008. Terminological dictionary on plant protection. (in Russian, Kirghiz, Latin, Uzbek and English) Kyrgyz agrarian university (Kyrgyzstan) and Tashkent State agrarian university (Uzbekistan), Bishkek, 56 pg.

Maredia, K. 2006. Ecologically-based participatory and collaborative research and capacity building in Integrated Pest Management in Central Asia. Manual.

Saidov N., D. Landis, A. Fiedler, M. Bouhssini, V. Nazirov and A. Jalilov. 2009. Introduction of native flowering plants in agro landscapes for attracting beneficial insects. Extension Bulletin, Dushanbe, 12 p., (*in Russian*).

Saidov N., D. Landis, A. Fiedler, M. Bouhssini, V. Nazirov and A. Jalilov. 2009. "Introduction of native flowering plants in agro-landscapes for attracting beneficial insects." Dushanbe, 12 p. *in Russian language*.

### **Ecuador**

Barrera, V., D. Quishpe, C. Crissman, G. Norton and S. Wood. 2002. "Economic evaluation of the application of the technology of integrated management of plagues and diseases (IPM) in the potato crop in the highlands of Ecuador". *Technical Bulletin No. 91. INIAP-CIP-IPMCRSP-IFPRI*. 62p. (in Spanish)

Barrera, V., D. Quishpe, C. Crissman, George N. and S. Wood. 2002. Economic evaluation of the variety INIAP-Fripapa 99, as an alternative of integrated pest management on potato crop, in the province of Carchi, Ecuador". *Revista INIAP* (16): 28-31.

Barrera, V., F. Chamorro, G. Heredia, L. Escudero and J. Suquillo. 2004. Reduciendo Costos y Riesgos en la Salud, Manejo Integrado de Plagas en Papa. September, 2004. INIAP, IPM CRSP, PROMSA, CIP.

Barrera, V., L. Escudero, G. Norton and S. Sherwood. 2002. "Validation and diffusion of models of integrated management of plagues and diseases of potato crop. An experience of participatory training in the province of Carchi, Ecuador". *Revista INIAP*(16): 25-28.

Gallegos, P., *et al.* 2003. How to know and manage the potato tuber moth. INIAP Extension Bulletin.

Ochoa, J. and Ellis M. 2002. Componentes de manejo integrado de la fusariosis o marchitez vascular del babaco en el Ecuador. *Revista INIAP* (16): 16-18. Quito-Ecuador.

Ochoa, J., V. Galarza, J. Fiallos and M. Ellis. 2000-2001. A detailed description in bulletin form of the naranjilla diseases of the Pastaza valley was sent to the Palora Experimental Extension to familiarize them with naranjilla diseases.

Oyarzún, P., Diego L., Julián P. and G. Forbes. 2002. Black leg and soft rot, a menace difficult to confront in the potato crop in Ecuador. *Revista INIAP* (16): 19-21.

Quijije, R; Suárez, C; Williams, R; Reyes, X. 2002. Capacidad de vuelo y Orientación de los picudos *Cosmopolites sordidus* y *Metamasius hemipterus* que infestan plantaciones de plátano. *Revista INIAP* (16) : 13 - 15.

Suárez, C Y Rivera, R. 2002. Nemátodos benéficos presentes en el Trópico Húmedo del Litoral Ecuatoriano. *Revista INIAP* (16) : 10 - 12.

Suárez, C., Vera, D., Williams, R., Ellis, M., Norton, G., Triviño, C., Flowers, W., Solís, K., Carranza, I. & Belezaca, C. 2002. Desarrollo de un programa de manejo integrado de plagas y enfermedades (MIPE), para sistemas de producción basados en plátano. *Revista INIAP* 16: 5-9.

Suquillo, J., P. Gallegos, F. Lopez, F. Chamorro and C. Sevillano. 1998. Biología y comportamiento de la polilla *Tecia solanivora* y su control en almacenamiento de papa semilla. Estacion Experimental Santa Catalina, PNRT-Papa, DNPV-UVTT-CARCHI. INIAP.

Taipe, A., P. Oyarzún, X. Cuesta and J. Rivadeneira. 2002. Generation of potato varieties with durable resistance to "late blight" (*Phytophthora infestans*). *Revista INIAP* (16): 22-24.

### **Guatemala**

ALTERTEC Team, 1996. Rescue of Common Farmer Knowledge. ALTERNATIVA. (ALTERTEC Bulletin).

Avila, D. and O. Portillo. 2005. Proteja su fruta de Guayaba de las moscas *Ceratitis capitata* y *Anastrepha* spp. August, 2005. USAID, ICADA and IPM CRSP.

Avila, D., M. Morales, F. Solís, H. Carranza, and E. Trabanino. 2005. Conozca sobre la Biofumigación. August, 2005. USAID, ICADA and IPM CRSP.

Calderon B. 2004. Biofumigation of agricultural soils. IPM CRSP/ICDA publication.

Calderon B. 2004. Biofumigation process in big areas of production. IPM CRSP/ICDA publication.

Calderon B., L.F., D.E. Dardon A., J.M. Marquez H. and M.A. del Cid Mazariegos. 2000. *Manejo Integrado del Cultivo de Arveja China*. ICTA, MAGA, MITAC and IPM CRSP.

Julian, J. W. and G. H. Sullivan. 1998. Trade development in NTAE crops: Guatemala's future market competitiveness and sustainability. Purdue AES No. 15877.

Kanagy, J. 1996. Beneficial arthropod populations associated with mulched plots. ALTERNATIVA, July 1996. (ALTERTEC Bulletin).

Sandoval, J.L. 2004. Good management practices in export crops. IPM CRSP/ICDA publication.

Sandoval, J.L. 2004. Integrated pest management in snow and sweet pea. IPM CRSP/ICDA publication.

Sandoval, J.L., G. Sanchez, L. Calderon and M.D. Cid. 2004. Preinspection process in snow pea. IPM CRSP/ICDA publication.

Sandoval, J.L., G. Sanchez, L. Calderon and M.D. Cid. 2004. Preinspection manual in snow and sweet pea. ICDA/IPM CRSP publication.

Sandoval, M. 1996. Ecological Management of White Grubs. Bulletin ALTERNATIVA. edición 1, año 1. (ALTERTEC Bulletin).

### **Jamaica**

Clarke-Harris, D (2000) "Growing West Indian Red Pepper". Handout series no 1.

Clarke-Harris, D. 1999. "Tips on Scouting Callaloo Fields for worms". IPM CRSP Pest Management Guide Series. 2pp.

Clarke-Harris, D. O. and McDonald F. D. 2001. Integrated management of pests and diseases on hot pepper. 18 pp.

Clarke-Harris, D., P. Chung, J. Lawrence, J. Goldsmith, F. Young, C. Thomas, S. Tolin; S. Fleisher; D. M. Jackson. 1999-2000. An IPM Strategy to Combat the Gall Midge Complex Affecting Hot Pepper. A black/white information leaflet for farmers and others stakeholders was prepared and some 725 copies circulated.

Clarke-Harris, D., P. Chung, J. Lawrence, J. Goldsmith, F. Young, C. Thomas, S. Tolin; S. Fleisher; D. M. Jackson. 1999-2000. An IPM Strategy to Combat the Gall Midge Complex Affecting Hot Pepper. A black/white technical guide was prepared and 76 copies issued to extension personnel and other technical persons.

## Publications/Products List

Clarke-Harris, D.O., S J Fleischer and A Fender. 1998. Identification Guide *Major Pests of Callaloo*. Technical Bulletin.

Eivazi, F. 1997. Phosphorus in Jamaican soils. April 1997, Vol. 2 (No. 1).

Eivazi, F. 1997. Sampling plant tissue for nutrient analysis. July 1997, Vol. 2 (No. 3).

Eivazi, F. 1997. Soil pH and nutrient availability. June 1997, Vol. 2 (No. 2).

Grossman, L. 1998. *MANUAL FOR USING ARCVIEW*.

Lawrence, J. and P. Myers. 1997. Construction, use and maintenance of pheromone traps in sweetpotato. CARDI / IPM CRSP Pest Management Guide Series.

### **Mali**

Dunkel, F.V. and B.J. Jacobsen. 1997. Maintaining quality in stored grains, oilseeds, legumes, and seed stocks. Montana State University Extension Bulletin. EB145.

Foster, R., K. T. Gamby, M. Noussourou. 2000. Graphique démontrant les niveaux de la defoliation du Dah. IPMCRSP Publication, 2 pp.

Project IPM CRSP. 2006. Senefenw Lakanali Ko Numa Gafe. Pesticide booklet in Bamanan.

Projet IPM CRSP. 2001. Evaluation participative de l'évolution des techniques de production du haricot vert dans le secteur de Ouelessebougou en zone OHVN. Centre Régional de Recherche Agronomique de Sotuba. Institut d'Economie Rurale. Février 2001.

Soumaré, S., and K.M. Moore. 2004. Experience et perception des producteurs de tomate: la virose de la tomate au Mali. Research bulletin, CRRRA/Sotuba, Institut d'Economie Rurale. p. 14.

### **Philippines**

Aitmatov, M. and G. Bird. 2008. IPM Farmer Field School Extension and Outreach Programs in Central Asia. Presented during the IPM CRSP Workshop "Advancing Regional and Global IPM CRSP Programs"; May 19-21, 2008, Manila, Philippines.

Baltazar, A.M., F.V. Bariuan, E.C. Martin, M.C. Casimero, F. Bajo, Jr, S.R. Obien, R.M. Gapasin, S.K. De Datta, and A.M. Mortimer. 1999-2000. Weeds and Weed Management in Rice-Vegetable Systems. Training module.

IPM CRSP. 1999. Pink Root Disease of Bulbs. PhilRice. Maligaya. Muñoz, Nueva Ecija

IPM CRSP. 1999. Training Manual in Rice-Vegetable Production with Emphasis on IPM, PhilRice, Muñoz, Nueva Ecija.

IPM CRSP/PhilRice. 1999. Training Manual for Vegetable IPM.

Maredia, K. and D. Baributsa. May 2008: Ecologically-based Participatory and Collaborative Research and Capacity Building in IPM in Central Asia Region, presentation during the IPM CRSP workshop, Manila, Philippines.

Saidov N. and D. Landis. 2008. Landscape Ecology and Biodiversity to Enhance Biodiversity and Biological Pest Management. Presented during the IPM CRSP Workshop "Advancing Regional and Global IPM CRSP Programs"; May 19-21, 2008, Manila, Philippines.

## Publications/Products List

Tashpulatova and F. Zalom. Enhancing Efficiency and Expanding Product Lines of Central Asia Biolaboratories: Laboratory and Field Studies of the Predaceous Mites *Amblyseius cucumeris* and *Amblyseius mckenziei*, IPM CRSP Workshop on “Advancing Regional and Global IPM CRSP Programs”; May 19-21, 2008, Manila, Philippines.

### Tanzania

1) Management of Weeds in Tomato Farms in Morogoro district (In ki-Swahili). K.P. Sibuga, A.P. Maerere, M.W. Mwatawala and H.D. Mtui.;

2) Management of Diseases in Tomato Farms in Morogoro district (In ki-Swahili); A.P. Maerere, H.D. Mtui, K.P. Sibuga and M.W. Mwatawala;

3) Management of Insects in Tomato Farms in Morogoro district (In ki-Swahili).M.W. Mwatawala, A.P. Maerere, K.P. Sibuga and. H.D. Mtui

In Tanzania, TACRI produced:

- a poster (1000 copies) and a fact sheet (4000 copies) on safe handling of pesticides.
- Coffee Pest identification, severity assessment and management
- Use of botanical extracts as biopesticides on coffee pests
- Integrated pest management strategies for coffee smallholder farmer.

Two power point presentations by Dr. Nurali Saidov at the “Organic Week workshop in Tajikistan” organized by the Oxfam GB in Tajikistan from 17-20 October 2007.

- Introduction to Organic Agriculture
- Pest management in organic crops.

Tanzania: Extension leaflets on use and application of mulch in tomato production have been drafted. A total of 109 (81 males and 28 females) farmers and extension officers were provided with the leaflets and posters.

Tanzania: Disseminate Arabica coffee IPM technologies to TaCRI farmer groups. 12,000 leaflets and 1000 posters were produced and used for training. They were on safe handling of pesticides, pest identification, use of botanicals and IPM approaches to pest management.

### Uganda

Brochure on “Management of coffee lace bugs (*Habrochila spp.*) on Arabica coffee in Uganda” completed; A draft Research Guide has been made. It is entitled “Procedures of *in-planta* detection of *Xanthomonas campestris* pv. *musacearum* in banana: A Research Guide” and 28 females) farmers and extension officers were provided with the leaflets and posters.

Brochure on “Management of key insect pests of Arabica coffee in Uganda” completed;

Erbaugh, M. 2006. Regional IPM Program for East Africa: Brochure for Kenya, Tanzania, and Uganda.

Grossman, L. 2002. “*MANUAL FOR USING GIS IN UGANDA.*” 243 pp.

Heinrichs, E.A. 2008. Grafting workshop conducted in India. In: IAPPS Newsletter, April, 2008. Luther, G. 2008. Grafting Workshops Conducted in India. In: IAPPS Newsletter, Number X, October, 2008.

## Publications/Products List

Kyamanywa, S., H. Willson, Opi, F., V. Kasenge, J.M. Erbaugh, in collaboration with the National Bean Programme through CIAT and IDEA Project. 1999. Beanfly and its control. Extension poster.

Kyamanywa, S., M. Otim, P. Okori and K. Jeninah. 2005. A manual for pesticide dealers and applicators on safe handling and application of pesticides. Crop Science Department, Faculty of Agriculture, Makerere University, Kampala, Uganda.

Namirembe, R. S. A grafting training manual has been produced in Luganda for Farmers.

Roberts, A. 2002. "IPM CRSP UGANDA-- GIS WORKSHOP: USING ARCVIEW,"

## 7. CONFERENCE PROCEEDINGS

### General / Other

- Adkins, S., G. Karthikeyan, T. Damayanthi, G. Kodetham, D.J. Riley and R.A. Naidu. 2009. IPM CRSP project on tospoviruses and thrips vectors in South and Southeast Asia. IX International Symposium on Thysanoptera and Tospoviruses, 31 August – 4 September 2009, Queensland, Australia
- Aitmatov M.B., G. Bird, A.U. Jalilov and K. Kyjal. 2008. Farm Field School and ecology problem. *Beatnik Kyrgyz agrarian university. № 3 (11), 2008. 10-14 pg. (in Russian).*
- Alabi, O. J., M. Al Rwahnih, G. Karthikeyan, S. Poojari, M. F. Fuchs, A. Rowhani, and R. A. Naidu. 2011. Grapevine leafroll-associated virus 1 occurs as genetically diverse populations in wine grape cultivars. In the Joint Meeting Honolulu of American Phytopathological Society and International Association of Plant Protection, , Hawaii, August 6-11.
- Alam, S.N., M. A. Sarker, A. K. M. Z. Rahman, M. I. Islam, M. Yousuf Mian, M. Nasiruddin, Edwin G. Rajotte, and A. N. M. R. Karim. 2008. Integrated management of fruit fly and borer complex in bitter melon crop. A poster presented at the workshop on 'Advancing Regional and Global IPM CRSP Programs' held at the Manila Hotel, Manila, Philippines, May 18-21, 2008.
- Angelella, G. and Riley, D. G. 2007. Bioassay methods for measuring thrips reproduction. Annual Meeting of the Entomological Society of America. December 8-12, 2007. San Diego, CA.
- Balakrishnan, N., R.A. Naidu, G. Karthikeyan, T.A. Damayanthi, G. Kodetham, D.J. Riley and S. Adkins. 2009. An IPM approach for the management of thrips-transmitted tospoviruses in vegetable cropping systems in South and Southeast Asia. Washington State University Academic Showcase, March 27, 2009, Pullman, WA.
- Baltazar A.M. and J. L. Opena. 2007. Managing weeds in eggplant with less inputs. Presented at the 38<sup>th</sup> conference of the Pest Management Council of the Philippines. Tagbilaran City, Bohol. May 20-23, 2007.
- Baltazar A.M. and J.L. Opena. 2008. Agroecological approaches to managing weeds in eggplant using stale-seedbed technique. Oral presentation at the 5th International Weed Science Congress, Vancouver, Canada. June 23-27, 2008.
- Bayer, J., Norton, G., and J. Falck-Zepeda. 2008. "Cost of Biotechnology Regulations in the Philippines," American Agricultural Economics Association Annual Meeting, Orlando Florida, July 27, 2008.
- Beddow, J., J. Koo, P. Pardey and S. Wood. 2008. *Global Modeling of Crop Responses and Biotic Constraints*. IPM-CRSP Meeting, Manila, Philippines, 20 May, 2008.
- Beddow, J., Pardey, P., J. Koo and S. Wood. 2008. *V-GET: A New Web-Based Tool for Collecting Spatial Pest Occurrence Data*. Second Annual Pest Risk Mapping Workshop. 16-17 Sept, 2008. Minneapolis, MN.
- Chang, P.-G. and S. Tolin. 2009. Nitrocellulose membranes as a solid matrix for *Cucumber mosaic virus* immuno-detection and subgroup identification by RT-PCR. Presentation at the annual meeting of the Caribbean Division of the American Phytopathological Society, Orlando, FL. Received first place award in graduate student completion at this meeting.
- Chitturi, A. and D.G. Riley. 2008. Characterizing the settling behavior of *T. tabaci* (Thysanoptera: Thripidae) on onion foliage. Annual Meeting of the Entomological Society of America. Reno, NV, November 16-19, 2008.

## Publications/Products List

- Chitturi, A. and D.G. Riley. 2008. Survey and behavior studies of *Thrips tabaci* (*Thysanoptera: Thripidae*) on onion in India and Georgia, USA. 1<sup>st</sup> Place Graduate Student Poster Award at the National Allium Research Conference, Savannah, Georgia, December 10-13, 2008.
- Co-colonization of *Theobroma cacao* seedlings with bacterial and fungal endophytes. October 2007. American Phytopathology Society Northeastern Division Meeting
- De Datta, S.K. 1999. IPM CRSP to Serve Global Food Security and Food Safety. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.
- De Datta, S.K. Collaborative Management and Structure of the IPM CRSP. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.
- Deepa, S.P, R. Sharmila, and S. Ramakrishnan. 2011. IPM research on vegetables-tomato, brinjal and bhendi, Valarum Vivasaya Thamizhagam, May 2011.
- Dhivya, R., K. Venkatesan, L. Pugalendhi, and P. Jeyakumar. 2010. Morpho-physiological changes and variations in yield due to seasons in dolichos bean genotypes. In Indian society for plant physiology zonal conference on recent trends in plant physiology and crop improvement, School of bio science and technology, VIT University, Vellore, October 22.
- Dinakaran, D., G. Gajendran, S. Mohankumar, G. Karthikeyan, S. Mathiyazhahan, S. Thiruvudainambi and V. Jayabal. 2011. Management of onion purple blotch with bioformulations and fungicides. In the Joint Meeting of American Phytopathological Society and International Association of Plant Protection, Honolulu, Hawaii, August 6-9.
- Endospore-forming bacterial endophytes of cacao: Ecology and biological control of witches' broom. July 2008. American Phytopathology Society Annual Meeting
- Epidemiology Symposium: Controlling Epidemics of Emerging and Established Plant Virus Diseases – The Way Forward. October 15-19, 2007, ICRISAT, Patancheru 502324, AP, India.
- Fleischer, S. Web Deployment with GIS for IPM. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.
- Gajendran, G., D. Dinakaran, and G. Kathiresan. 2010. Integrated Pest and Disease Management in Onion. pp. 396-398. In P. Murugesu Boopathi, K. Vairavan, M. Manimekalai, C. Swaminathan, and P. Vellaiyan (eds.), Souvenir of State level seminar on "Agriculture through Scientific Tamil," AC & RI, Madurai, October 7-8.
- Gebrekidan, B. 1998. Highlights of progress and challenges of the IPM CRSP. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.
- Gebrekidan, B. 1999. Overview and Perspectives on the Symposium. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.
- Gebrekidan, B. ed. 1995. Proceedings of the regional workshop: Technology development and transfer to improve natural resource management in West Africa, September 18-22, 1995. Niamey, Niger. IPM CRSP, Virginia Tech. 209pp.
- Gebrekidan B., J.P. Amirault, and T. Abate, eds. 1996. IPM Networking in Sub-Saharan Africa: Proceedings of the IPM Networking in Sub-Saharan Africa Workshop, 14-16 October 1996, Addis Ababa/Nazareth, Ethiopia. IPM CRSP/Virginia Tech, 74 pp.



- a) Abate, Te. Pest Management Research in Ethiopia: An Overview.
- b) Afreh-Nuamah, K. The Status of IPM in Ghana.
- c) Erbaugh, J. M. Activities of the IPM CRSP in Sub-Saharan Africa.
- d) Gebrekidan, B. Overview of IPM CRSP and ICN Activities with Special Focus on Sub-Saharan Africa.
- e) Knausenberger, W. I., G.A. Schaefers, J. Cochrane, and B. Gebrekidan. Africa IPM-Link: An Initiative to Facilitate IPM Information Networking in Africa.
- f) Kyamanywa, S. Current Status of Integrated Pest Management in Uganda.
- g) Seif A.A. and B. Löhr. GTZ IPM Horticulture Project for Eastern and Southern African Region: Concepts, Operational Approach and Activities.
- h) Tesfayohannes, M. Current Status of IPM in Eritrea.
- i) Thiam, A. Pesticide Action Network (PAN).

Gilberson, R. I. M. Noussourou K. Gamby M. Osei S. Miller D. Pfeiffer C. Brewster and D. Mullins. 2011. Toward the development of integrated pest management (IPM) packages for tomatoes and other vegetable crops in West Africa. American Phytopathological Society Annual Meeting, Honolulu, Hawaii, August.

Gilbertson, R. G. 2009. IPM for insect-transmitted viruses: whitefly-transmitted begomoviruses infecting tomatoes in West Africa. Presentation at the Sixth International IPM Symposium "Transcending Boundaries", at the session entitled: IPM strategies for the management of insect-transmitted plant virus diseases. March 24-26, 2009. Portland, OR

Hamraev A.S., N.S. Saidov, M.B. Aitmatov, S.A. Azimov, S.B. Ulmesbaev and B.A. Tashpulatova Books: Agroentomological cartogram for Central Asia and Caucasus regions.

Harris, C. 2004. Incorporating Gender Issues in IPM.. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Heinrichs, E. A. "Short". 2004. Communication for Behavioral Change: From the Village to the Global IPM Community. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Hipkins, P. A., I. Sidibé, D. E. Mullins, and K. T. Gamby. 2011. Showing West African Farmers Who Cannot Read How And Why To Use a Pesticide Product Label. In the National Pesticide Applicator Certification & Training Workshop, Portland, Oregon, August.

ICARDA-Michigan and Uzbek zoology institute of academy of sciences, Tashkent. 2008. 123 p, (in Russian), published copies 500 units.

Irwin, M. 2004. Past Successes and Future Challenges. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Klienhenz, M. 2009. Delivered three lectures at MU/FA September 23-25, 2009: (1) Lecture to 2<sup>nd</sup> year students on season extension and vegetable grafting; (2) Lecture to 3<sup>rd</sup> year students on season extension and vegetable grafting; (3) Major horticulture, food-society, and professional development issues. (30 M/24 F).

Kovach, J. 2011. Regional IPM CRSP Program for East Africa: Kenya, Tanzania, and Uganda. Presented at the IPM CRSP Technical Committee meeting, Honolulu, Hawaii, August 5-1.

Kumar, P.L., O.J. Alabi, R. Hanna and R.A. Naidu. 2009. Coat protein-based genealogy of *Banana bunchy top virus* in the sub-Saharan Africa. American Phytopathological Society Annual Meeting, August 1-5, 2009. Portland, OR

## Publications/Products List

- Kunkalikal, Sudarsana Poojari, Prem Rajagopalan, V. Rama Subba Rao, Kankanallu S. Ravi, David J. Riley, S. Sivamani, and Shyi-Dong Yeh. Integrated Management of Thrips-borne Tospoviruses in Vegetable Cropping Systems in South and Southeast Asia. Advancing Regional and Global IPM CRSP Programs, IPM CRSP Workshop, May 19 – 22, 2008, Manila, Philippines.
- Kuria S.N, J.M. Kibaki, A.M. Ndegwa, M.M. Waiganjo, R.G. Munene. 2009. Evaluation of Tomato Breeding Lines for Resistance/Tolerance to Bacterial Wilt (*Ralstonia solanacearum*). Paper presented at the Egerton fourth Annual Week and International Conference, 16-17 Sept. 2009. In book of Abstract p. 8-9.
- Kusumah YM, and I. Nuraeni. 2010. Keefektifan ekstrak buah rerak dan molase sebagai pelindung ultraviolet untuk SINPV. Seminar Nasional PEI Cabang Yogyakarta, October 1-2.
- Leke, W.N., D.K. Njualet, V.P.K. Titanji, J.P. Legg, J.M. Ngeve, J.K. Brown, and A. Kvarnheden. 2009. Diversity of DNA satellite molecules associated with monopartite begomoviruses in the equatorial rain forest region of Cameroon. 9 ACSS conference, Cape Town, South Africa. Sept 27- Oct 1, 2009.
- Leke, W.N., E.B. Ngane, D.K. Njualet, V.P.K. Titanji, J.P. Legg, J.M. Ngeve, S. Zok, J.K. Brown and A. Kvarnheden 2009. Provisional identification of begomoviruses associated with cultivated and endemic plant species from Southwestern Cameroon based on core coat protein sequence analysis. Advances in Plant Virology conference 1-3 April 2009, Harrogate, York, UK
- Maharani, Y., D. Sartiami, R. Anwar, A. Rauf. 2010. Perkembangan dan reproduksi kutu putih pepaya, *Paracoccus marginatus* (Hemiptera: Pseudococcidae). Seminar Nasional PEI Cabang Yogyakarta, October 1-2.
- Maslikova K. took part in the NATO ASI: Novel Biotechnologies for Biocontrol Agent Enhancement and Management. 8 Sep 2006 - 19 Sep 2006: Gualdo Tadino, Italy.
- Mauceri, M., Alwang J., G. Norton, and V. Barrera. 2007. "Adoption of Integrated Pest Management Technologies: A Case Study of Potato Farmers in Carchi, Ecuador, *Journal of Agricultural and Applied Economics*, 30 (December 2007): (765-780).
- Miller, S. 2004. Scientific Advances: Key Results from the IPM CRSP. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.
- Mohankumar, S. 2004. Regionalization of Biotechnology. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.
- Moore, K. M. Social Networks for IPM. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.
- Moser, B. D. 2004. Importance of Collaborative International IPM Research. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.
- Naidu, R.A. 2006. A global approach to tackle tospoviruses in vegetables: Challenges and opportunities, pp16-17. In: AVRDC. 2006. Proceedings of the 2006 APSA-AVRDC Workshop. 1-2 May 2006. AVRDC-The World Vegetable Center, Shanhua, Taiwan. AVRDC Publication 06-677. 22pp.
- Naidu, R.A. Scott Adkins, Anitha Chitturi, Stan Diffie, Peter Hanson, Gandhi Karthikeyan, Suresh
- Naidu, R.A., G. Karthikeyan, T.A. Damayanthi, G. Kodetham, D.J. Riley and S. Adkins. 2009. An IPM Approach for the Management of Thrips-transmitted Tospoviruses in Vegetable Cropping Systems in South

## Publications/Products List

and Southeast Asia. 6<sup>th</sup> International IPM Symposium-Transcending Boundaries, March 24-26, 2009, Portland, Oregon.

Norton, G. 2004. Lessons for Impact Assessment. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Norton, G. W. 2004. Local, National, and Global, Impacts of the IPM CRSP. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Norton, G., J. Alwang, and S. Hamilton, 2008. Evaluación del Impacto de la Investigación del Manejo Integrado de Plagas, 25-28 Febrero, 2008, Universidad de Zamorano, Honduras, CA (several-part presentation over 4 days).

Norton, G., J. Bayer, A. Rakshit, S. Moyo and J. Alwang. 2008. "IPM CRSP Impact Assessment," poster presentation, IPM CRSP Annual Meeting, Manila, Philippines, May 20, 2008.

Norton, G.. 2008. "IPM CRSP Impact Assessment," IPM CRSP Annual Meeting, Manila, Philippines, May 19, 2008.

Otipa, M. 2011. Distribution and Characterization of Passion Fruit Viruses in Kenya. PhD Progress report presented, JKUAT, June.

Otipa, M. 2011. Passion fruit Production: Importance of Disease Diagnostics.

Palmieri, M., A. Avalos, L. Ortiz, M. Valazquez, E. Solares, M. Morales, A. Font, J. Brown, and R. Gilbertson. 2009. Management of whitefly transmitted virus diseases in a developing country – a case study. Presentation at the Sixth International IPM Symposium "Transcending Boundaries", at the session entitled: IPM strategies for the management of insect-transmitted plant virus diseases. March 24-26, 2009. Portland, OR

Pardey, P., J. Beddow, J. Koo and S. Wood. 2008. *Global Agricultural Trends: Impact and Role for Australian Agricultural and Agronomic Research*. 14th Australian Society of Agronomy Conference, 21-25 September. Adelaide, South Australia.

Pardey, P., J. Beddow, J. Koo and S. Wood. 2008. *Linking Plant Diseases and Their Economic Consequences in a Global Setting*. American Phytopathological Society Centennial Meeting. 26-30 July, 2008. Minneapolis, MN.

Petit, G., J.M. Rivera, J. C. Melgar, S. Tolin and J. Brown. 2008. Reaction to virus diseases and effect of plastic mulch on virus incidence and severity of commercial tomato cultivars in the field. Presentation at a work session of the XI International Congress on IPM of the Mesoamerican region, held in Tegucigalpa, Honduras October 8-10, 2008.

Pfeiffer, D. G., D. E. Mullins, R. L. Gilbertson, C. C. Brewster, J. Westwood, S. A. Miller, P. Hipkins, G. Mbata, K. T. Gamby, E. V. Coly, D. S. Sall, and M. K. Osei. 2011. IPM packages developed for vegetable crops in West Africa. In the American Phytopathological Society Annual Meeting, Honolulu, Hawaii, August.

Poojari, S., O. J. Alabi, K. Gandhi, S. K. Manoranjitham, T. A. Damayanti, S. H. Hidayat, R. A. Naidu. 2011. Molecular diversity of viruses in vegetable crops from farmers' fields in South and Southeast Asia. Phytopathological Society and International Association of Plant Protection at Honolulu, Hawaii, August 6-10.

## Publications/Products List

Praneetha, S, V. Rajashree and L. Pugalendhi. 2010. Shoot and fruit borer resistance in brinjal (*Solanum melongena* Linn.) derived through bio safety method by using wild relative (*Solanum viarum*). In the International Conference on Bioresource Technology proceedings.

Praneetha, S., V. Rajashree and L. Pugalendhi. 2010. Combating climate change for year round production and maximizing yield and quality in cucumber. International Conference on Bioresource Technology proceedings.

Pratt, Richard. 1/13/08 – SUA – Seminar title: Linkage of Molecular Markers to Foliar Pathogen Resistance Loci in Maize. M – 21; F – 7; Tot. – 28.

Presentation on “Basics of Integrated Management of Virus and Virus-like Diseases of Vegetable Crops”. On September 22 in La Lima and on September 28 in Comayagua J. C. Melgar lectured groups of 20 and 32 extension workers of the MCA- and USAID-funded EDA and RED projects, respectively. The focus of the 3 hr-long talks was the general biology of viruses and their means of transmission as determinants of the strategies used for their integrated management. In addition, the findings on “Zebra chip” disease of potatoes were also presented in these occasions.

Proceedings of the 1st International e-Conference on Agricultural BioSciences. Abstract ID: IeCAB08-145, <http://www.e-conference.elewa.org/agriculture>. June 2 - 16, 2008.

Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

Pugalendhi, L., V. A. Sathyamurthy, T. Sumathi, and C. Thangamani. 2011. Effect of foliar application of nutrients on growth, yield and quality of onion (*Allium cepa* var. *cepa*) under Coimbatore condition. In the national symposium on Alliums: Current scenario and emerging trends, Rajgurunagar, March 12-14.

Pugalendhi, L., V. A. Sathyamurthy, T. Sumathi, and C. Thangamani. 2011. Evaluation of integrated nutrient management for onion. In the national symposium on Alliums: Current scenario and emerging trends. Rajgurunagar, March 12-15..

Rabindran, R., L. Pugalendhi, N. Rajinimala, R. Radhajeyalakshmi, G. J. Janavi, S. Buvaneshwari, G. Chandrasekar, E. I. Jonathan and N. Kumar. 2011. Molecular variations of cassava mosaic virus among the single isolate infecting cassava variety CO 2. In the ISCB International Symposium on A decade of experience in R&D and Technology Management.

Raghu ,D., N. Senthil, M. Raveendran, G. Karthikeyan, L. Pugalendhi, K. Nageswari, R. Jana Jeeva, and C. Mohan. 2011. Molecular studies on cassava mosaic virus transmission in cassava by *Bemisia tabaci* (Homoptera: Aleyrodidae). In the ISCB International Symposium on A decade of experience in R&D and Technology Management.

Raghu, D., A. R. Sakthi, K. Nageshwari, N. Senthil, M. Raveendran, L. Pugalendhi, and G. Karthikeyan. 2010. An assessment of genetic diversity within a collection of South Indian Cassava (*Manihot esculenta* Crantz) germplasm using morphological markers. In the International Conference on Genomic Sciences – Recent Trends (ICGS-2010), VII Convention of the Biotech Research Society, India and Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology, School of Biological Sciences, Madurai Kamaraj University, Madurai, November 12-14.

Raghu, D., A. R. Sakthi, K. Nageswari, N. Senthil, M. Raveendran, L. Pugalendhi, and G. Karthikeyan. 2010. An assessment of genetic diversity within a collection of south Indian cassava (*Manihot esculenta* Crantz) germplasm using morphological markers. International conference on genomic sciences – recent trends (ICGS-2010). School of Biological Sciences, Madurai Kamaraj University, Madurai, November 12.

Raghu,D., N. Senthil, M. Raveendran, K. Nageswari, G. Karthikeyan, L. Pugalendhi, G.J. Janavi, R. Jana Jeevan, and C. Mohan. 2011. Identification of candidate genes differentially expressed during interaction of

## Publications/Products List

resistant and susceptible cassava cultivars with cassava mosaic virus (CMV) using cDNA- AFLP. In the symposium on Genomics and Biodiversity.

Rajotte, E. G. 2004. Participatory IPM Process: Experiment and Experience. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Rajotte, E. Finding the Appropriate Mix of Approaches and Institutions for Fostering IPM Diffusion (Panel Discussion)

Moderator: Edwin Rajotte

- a) ANM Rezaul Karim, Site Coordinator, Bangladesh
- b) Sam Kyamanywa, Site Coordinator, Uganda
- c) Carmen Suarez, Site Coordinator, Ecuador
- d) Dionne Clarke-Harris, Site Coordinator, Caribbean
- e) Aurora Baltazar, Former Site Coordinator, the Philippines
- f) Guillermo Sánchez, Site Coordinator, Central America
- g) Kadiatou Touré Gamby, Site Coordinator, Mali
- h) Josef Tedeschini, Site Coordinator, Albania

Ramakrishnan, S., and I. Cannayane. 2011. Influence of *Pseudomonas* and *Trichoderma* on phytonematodes. In the International Workshop on mass production of *Pseudomonas* and *Trichoderma*, Sponsored by USAID IPM-CRSP.

Ravi, K.S., Kunkaliker, S., Bhanupriya, M., Sudarsana, P., Rajagopalan, P., Zehr, U.B. and Naidu, R.A. 2007. Current status of tospoviruses infecting vegetable crops in India. 10th International Plant Virus

Rebu YU, I.W. Winasa, and A. Rauf. 2010. Potensi parasitoid *Acerophagus papayae* untuk pengendalian hayati kutu putih pepaya, *Paracoccus marginatus*. In the Nasional PEI Cabang Yogyakarta Seminar, October 1-2.

Ricker-Gilbert, J., G. Norton, J. Alwang., M. Miah and G. Feder. 2008. "Cost Effectiveness of Alternative IPM Extension Methods: An Example from Bangladesh," *Review of Agricultural Economics*, 30 (2008): (252-269).

Riley, D. and A. Chitturi. 2008. Thrips in vegetables in India associated with Tospoviruses and specifically IYSV transmission in onion. South Eastern Branch Entomological Society of America. Wyndham Jacksonville Riverwalk Hotel, FL. March 4, 2008.

Riley, D. G. 2007. Host plant resistance to TSWV and thrips in tomato and pepper. Annual Meeting of the Entomological Society of America. December 8-12, 2007. San Diego, CA.

Rustam R, A. Rauf, N. Maryana, Pudjianto, and Dadang. 2010. Tanggap fungsional parasitoid *Opius chromatomyiae* (Hymenoptera: Braconidae) pada lalat pengorok daun *Liriomyza huidobrensis* (Diptera: Agromyzidae). In the Nasional PEI Cabang Yogyakarta Seminar, October 1-2.

Saidov N.Sh. and D.A. Landis. 2008. Landscape ecology and biodiversity to enhance biodiversity and biological pest management. Ninth International Conference on Dryland Development, Sustainable Development in the Drylands Meeting the Challenge of Global Climate Change, 7-10 November 2008, Alexandria, Egypt. Abstracts of oral presentations, p. 82-83 (*in English*).

Studies on the suppression of cacao diseases with native endophytic *Bacillus* spp. Penn State University Department of Plant Pathology, Departmental Seminar.

Sudarsana, P., Kitkaru, A.S., Kunkaliker, S., Zehr, U.B., Yeh, S-D., Adkins, S., Ravi, K.S. and Naidu, R.A. 2007. Serological relationship of vegetable infecting tospoviruses in India. 10th International Plant Virus

Epidemiology Symposium: Controlling Epidemics of Emerging and Established Plant Virus Diseases – The Way Forward. October 15-19, 2007, ICRISAT, Patancheru 502324, AP, India.

Sudarsana, P., Rajagopalan, P., Kunkalikal, S., Zehr, U.B., Naidu, R.A. and Ravi, K.S. 2007. Molecular variability in the non-structural (NSs) gene of the Peanut bud necrosis virus isolates from India. 10<sup>th</sup> International Plant Virus Epidemiology Symposium: Controlling Epidemics of Emerging and Established Plant Virus Diseases - The Way Forward. October 15-19, 2007, ICRISAT, Patancheru 502324, AP, India.

Sudarsana, P., T. Damayanti, M. Karuppanan, O.J. Alabi, G. Karthikeyan, P.L. Kumar, A. Rauf, G. Kodetham and R.A. Naidu. 2009. Diagnosis of plant viruses using FTA Classic Card technology. American Phytopathological Society Annual Meeting, August 1-5, 2009. Portland, OR.

Tashpulatova, B. 2008. Integrated Pest Management in Uzbekistan. *In* K. Maredia and D. Baributsa (eds). *In* Integrated Pest Management in Central Asia. Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

Tashpulatova, B. 2008. Integrated Pest Management in Uzbekistan. *In* K. Maredia and D. Baributsa (eds). *In* Integrated Pest Management in Central Asia. Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

Tashpulatova, B. and F. Zalom. 2008. Enhancing the Efficiency and Product Lines of Biolaboratories in Central Asia. *In* K. Maredia and D. Baributsa (eds). Integrated Pest Management in Central Asia.

Tashpulatova, B., F. Zalom and J. T. Tumanov. 2008. Biological control of *Thrips tabaci* (Thysanoptera: Thripidae) using *Ambliseius mckenziei* (Acarina:Phytoseiidae) on onion crop in Kyrgyzstan and Uzbekistan. Conference devoted to 50 years anniversary of Institute of Plant Protection and Quarantine – Kazakhstan, 6-8 November, 2008 (in press).

Tashpulatova, B., F. Zalom and J. T. Tumanov. 2008. Usage of *Amblyseius cucumeris* (acari:phytoseiidae) to control of greenhouse whitefly *Trialeurodes vaporariorum* (westwood) (homoptera: aleyrodidae) on tomato plant. International conference “Actual directions in development of scientific research on potato and vegetable” Kaskelen (Kazakhstan), June 9-11, 2008, P. 50-53.

Three training events about IPM in naranjilla were given in three farmers’ communities near by Tandapi in Pichincha province. Also, grafted naranjilla plants were planted there.

Tolin, S. 2004. Complementarities between IPM and Biotech. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Tolin, S. A. 2009. Success Stories: Contributions of USAID and IPM-CRSP to the management of virus diseases in developing countries. Presentation at the Sixth International IPM Symposium “Transcending Boundaries”, at the session entitled: IPM strategies for the management of insect-transmitted plant virus diseases. March 24-26, 2009. Portland, OR

Tolin, S. and Chang, P.-G. 2009. Contributions of the IPM-CRSP to virus diagnosis and management in Central America and the Caribbean. Presentation at the annual meeting of the Caribbean Division of the American Phytopathological Society, Orlando, FL. May 16-19, 2008.

Tusiime, Geoffrey, PCR detection of *Xanthomonas campestris pv musacearum* in banana: Implication for mat management to control banana xanthomonas wilt. International Banana Conference, 5-9 October, 2008, Mombasa Kenya.

Weller, S. 2004. Markets and Trade: Incorporating Pre-inspection Issues in IPM for Non-Traditional Agricultural Export Crops. In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

**Africa**

Amata, R.L., M.J. Otipa, M. Wabule, J. Kinoti, S. Kyamanwa, M. Erbaugh and S. Miller. 2008. Dieback disease, devastating passion fruit production in Kenya. Presented at the 11<sup>th</sup> KARI Biennial Conference. KARI headquarters, 10-14<sup>th</sup> November 2008.

Amata, R.L., M.J. Otipa, M. Waiganjo, L. Wasilwa, J. Kinoti, S. Kyamanwa and M. Erbaugh. 2009. Passion fruit production systems management strategies for fungal diseases in Kenya. Presented at the All Africa Horticulture Congress, Safari Park Hotel Nairobi, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya.

Kahinga J.N, C.N. Waturu, S.B. Wepukhulu, J.K. Njuguna, M.M. Waiganjo and P.N. Mugii. 2008. Higher Yielding Passionfruit Cultivars Can Revolutionize The Industry in Kenya. Presented during the 8<sup>th</sup> Workshop on Sustainable Horticultural Production in the Tropics held at Masinde Muliro University of Science and Technology (MMUST), Kakamega December 8<sup>th</sup>-11<sup>th</sup> 2008.

McConnachie, A. 2008. Biological control of parthenium and pom pom weed in South Africa. Seminar Series. University of KwaZulu-Natal, School of Biological and Conservation Sciences (about 40 university staff and students).

McConnachie, A. Biological control of *Campuloclinium macrocephalum*. Pongola/Nongoma landowners' day 19 March 2008. (Approximately 30 participants, ~ 28 men + 2 women)

McConnachie, A. Here, there and everywhere! Parthenium distribution surveys in eastern and southern Africa. IPM CRSP Parthenium Project Partners Workshop, Addis Ababa, Ethiopia, October 12, 2007.

McConnachie, A., Strathie, L. Ntushelo, K. and Goodall, J. Control of *Parthenium hysterophorus* (Asteraceae) in conservation areas in South Africa. Southern African Wildlife Management Association Symposium, September 18-21 2007, Didima Camp - uKhahlamba-Drakensberg Park. (Approximately 60 delegates, ~70% men, ~30% women)

Mersie, W. Management of the Weed Parthenium (*Parthenium hysterophorus* L.) in Eastern and Southern Africa Using Integrated Cultural and Biological Measures. 2008. IPM CRSP Annual Workshop: Advancing Regional and Global Theme Programs, Manila, Philippines, May 19 to 21, 2008.

Miller, S.A., Z.M. Kinyua, F. Beed, Z.L. Harmon, J. Xin, R.L. Gilbertson and L. Garcia. 2009. The International Plant Diagnostic Network in Africa: Improving capacity for diagnosing diseases of banana and other African crops. Banana 2008: Harnessing International Partnerships to Increase Research Impact. October 5-9, Mombasa, Kenya.

Ntushelo K. and Wood AR. 2008. Supplementary host-specificity testing of *Puccinia melampodii*, a biocontrol agent of *Parthenium hysterophorus*. In: *Proceedings of the XII International Symposium on Biological Control of Weeds*, Montpellier, France, April 2007. Julien, M.H., Sforza, R., Bon, M.C., Evans, H.C., Hatcher, P.E., Hinz, H.L. & Rector, B.G. (eds), CAB International Wallingford, UK. In press.

Otipa, M J, L.A. Wasilwa and R.L. Amata. 2009. Production Trends of Passion fruit in Kenya. Presented at All Africa Horticulture Congress, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya.

Otipa, M.J, R.L. Amata, M. Waiganjo, J.G. Mureithi, L.E. Ateka, E. Mamati, D. Miano, J. Kinoti, S. Kyamanywa, M. Erbaugh and S. Miller. 2009. Viruses and Dieback diseases threaten Passionfruit Production systems in Kenya. Presented at Africa Crop Science Conference on 28<sup>th</sup> September to 2<sup>nd</sup> October 2009 in Cape Town, South Africa.

Otipa, M.J. 2009. Passion fruit diseases affecting Passionfruit production and their management in Kenya. Presented at GTZ/Stakeholders workshop of Passion fruit Value Chain at Genevive Hotel in Nakuru, Kenya on 4<sup>th</sup> to 5<sup>th</sup> June 2009.

Otipa, M.J. 2009. Presented Passion fruit work a collaboration with Ohio State University under IPM-CRSP Project funded by USIAD, To Her Excellency Secretary of State Hillary Rodham Clinton and Secretary of Agriculture Tom Vilsack, and Congress woman Nita Lowey (New York) and Congressman Donald Payne (New Jersey) and African Advisor To Secretary of State John Carson AT KARI on August 5<sup>th</sup> 2009, Nairobi, Kenya.

S. Kyamanya, R. Namirembe-Ssonkko and Z. Muwanga. 2009. Field performance of tomato grafted onto indigenous solanaceous rootstocks. Abstract submitted for World Horticulture Conference, to take place in Nairobi, Kenya, in October, 2009.

Strathie, L. 2008. Management of *Parthenium hysterophorus* in eastern and southern Africa. 36th Annual Workshop on the Biological Control of Alien Invasive Plants in South Africa, Goudini Spa, Rawsonville, 6-9 May 2008. (42 men + 46 women = 88 delegates)

Strathie, L. and E. Richter. Biological control of invasive plants. KwaNunu Exhibition, Durban Natural Sciences Museum, Durban, July 11-15, 2008. (About 800 members of public and groups of school children)

Strathie, L. Biological control of *Parthenium hysterophorus* in South Africa. IPM CRSP Parthenium Project Partners Workshop, Addis Ababa, Ethiopia, October 12, 2007.

Strathie, L. Biological control of *Parthenium hysterophorus*. Pongola/Nongoma landowners' day 19 March 2008. (Approximately 30 participants, ~28 men + 2 women)

Strathie, L.W., McConnachie, A.J. and Negeri, M. 2008. A cooperative approach to biological control of *Parthenium hysterophorus* (Asteraceae) in Africa. In: *Proceedings of the XII International Symposium on Biological Control of Weeds*, Montpellier, France, April 2007. Julien, M.H., Sforza, R., Bon, M.C., Evans, H.C., Hatcher, P.E., Hinz, H.L. & Rector, B.G. (eds), CAB International Wallingford, UK. In press.

Waiganjo M.M, I. Onyango, S.N. Kuria, S.B. Wepukhulu, M.N. Wabule, M. Erbaugh, and J. Kovach. 2008. Environmentally Safe and Cost Effective Tomato Pest Management Options for Small Holder Growers At Thika, Kenya. Presented during the 8<sup>th</sup> Workshop on Sustainable Horticultural Production in the Tropics held at Masinde Muliro University of Science and Technology (MMUST), KAKAMEGA December 8<sup>th</sup>-11<sup>th</sup> 2008.

Waiganjo, M.M, S. Kyamanywa, M. Maerere, K. Sibuga, R. Amata, S. Kuria, J. Kahinga, M. Otipa, M. Erbaugh, J. Kovach, R. Namirembe-Ssenko, J. Karungi and M. Ssemakula. 2009. An overview of recent achievements and challenges in the USAID-IPM CRSP activities among smallholder tomato and passionfruit growers in East Africa. Presented at All Africa Horticulture Congress, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya.

### **Albania**

Klienhenz, M. Delivered two lectures to Bsc Horticulture students on (1) Organic Production of vegetables, and (2) Extension Information for farmers

Pfeiffer, D. 2004. Lessons from Albania: What Worked, What Didn't, What Will Continue, What Is Needed? In: *Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP*. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

### **Central America**

Leke, W. N., Ramsell, J. N. E., Njuaem, D. K., Titanji, V. P. K., Legg, J. P., Fondong, V. N., Brown, J.K., and Kvarnheden, A. 2007. FTA technology facilitates detection and identification of Begomoviruses from okra plants in Cameroon. 8ACSS, EL-MINIA, EGYPT, 27-31 OCT 2007.



Leke, W. N., Ramsell, J. N. E., Njuaem, D. K., Titanji, V. P. K., Legg, J. P., Fondong, V. N., Brown, J. K., and Kvarnheden, A. 2007. FTA technology facilitates detection and identification of Begomoviruses from okra plants in Cameroon. 8ACSS, EL-MINIA, EGYPT, 27-31 OCT 2007.

McDonald, Sharon and Tolin, Sue. 2008. Survey of farmer practices in two tomato-growing areas of Jamaica. Poster presented at the IPM CRSP project-wide workshop, May 19 to May 21, 2008 in Manila, Philippines.

Melgar, J. and Girón, Edwin. "Molecular and serological identification of virus diseases of vegetables grown in seven "Departamentos of Honduras". Presentation during the general annual review of programs of FHIA held at La Lima February 20-22, 2008. As many as 48 persons (4 female and 44 male) attended, including mostly FHIA staff and several invited growers and technicians.

Palmeiri, Margarita. 2008. "Monitoring Begomovirus in whitefly from Salama and other valleys in Guatemala as part of an integrated pest Management program in tomato". Invited presentation at the IPM CRSP project-wide workshop, May 19 to May 21, 2008 in Manila, Philippines.

Petit, Geraldo and Rivera, J. Mauricio. "Effect in viral disease management in tomatoes, peppers and cucumbers of the use of resistant cultivars and plastic mulch." Presentation during the annual review of FHIA's Horticultural Crops Program, held at Comayagua, Comayagua July 25, 2008. The audience was of 34 persons (all male) and included invited local growers and technicians, in addition to the local FHIA staff.

Rivera, J. Mauricio and Girón, Edwin. "Molecular and serological identification of virus diseases of vegetables grown in seven "Departamentos of Honduras". Presentation during the annual review of FHIA's Horticultural Crops Program, held at Comayagua, Comayagua July 25, 2008. The audience was of 34 persons (all male) and included invited local growers and technicians, in addition to the local FHIA staff.

Tolin, Sue and Rayapati, Naidu. Discussion Session: Focus on Management of Virus Disease. IPM CRSP project-wide workshop, May 19 to May 21, 2008 in Manila, Philippines.

Tolin, Sue. 2008. Lessons Learned: Insect Transmitted Viruses Global Theme. IPM CRSP project-wide workshop, May 19 to May 21, 2008 in Manila, Philippines.

### **Ecuador**

Alwang, J. 2004. Lessons from Latin America: What Worked, What Didn't, What Will Continue, What Is Needed? In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Andrade, R., J. Alwang, G.W. Norton and V. Barrera 2009. Livelihood strategies and economic well-being in Bolivar, Ecuador. How to improve economic assessment of IPM. Presented at the International IPM Symposium, Portland, March 24. 2009.

Backman, P. 2009. IPM/Biological Control and Endophytes—how can we provide sustainable alternatives to pesticides? January 2009. USAID IPM-CRSP Meeting on Integrated Pest Management, Part of INIAP 50<sup>th</sup> Anniversary Seminar Series. INIAP Tropical Research Station, Pichilingue, Los Rios, Ecuador.

Cerón C. 2005. Estudio del comportamiento y control químico de *Neoleucinodes elegantalis* (Lepidoptera: Pyralidae), Barrenador del fruto de la naranjilla (*Solanum quitoense* Lam.) La Celica, Pedro Vicente Maldonado. Pichincha, Tesis de grado de Ingeniero Agrónomo, Universidad Central del Ecuador. Quito.

Fernando C. S., P.D. Gallegos and J.P. Suquillo. 2004. Determinación de la Eficacia del Control Químico para La Polilla de la Papa *Tecia solanivora* (Povolny) (Lepidoptera: Gelechiidae) en Condiciones de Campo, Carchi, Ecuador. Avances en investigación y manejo integrado de la polilla guatemalteca de la papa, *Tecia solanivora*. In : *Memorias de la polilla guatemalteca de la papa, Julio 2004*. II Taller Internacional de Polilla Guatemalteca *Tecia solanivora*. Pontificia Universidad Católica del Ecuador. pp. 67-74.

- Galarza, V. and Ochoa, J. 2001. "Reaccion de diferentes especies de caricaceas a *Fusarium oxysporum* y su afinidad como patrones de babaco." *Memorias: XI Seminario Nacional de Sanidad Vegetal*. Universidad tecnica de Babahoyo. Babahoyo-Ecuador. 196-208 pp.
- Gallegos P, Arroyo M, Asaquibay C. 2007. Formas de control de *Neoleucinodes elegantalis* en el cultivo de naranjilla (*Solanum quitoense* Lam). Informe anual del DNPV. EESC- INIAP. Quito, Ecuador.
- Gallegos, P., E. Barriga, P. Landázuri and R. Williams. 2002. Evaluation of the pathogenicity of native isolates of *Beauveria* sp and *Metarhizium anisopliae*, for the control of *Premnotrypes vorax* in laboratory. *Latin American Potato Magazine*, 4-7 of June 2002. Quito, Ecuador.
- Gallegos, P.D., J.P. Suquillo, C.S. Fernando, C.R. Asaquibay. 2004. Alternativas de manejo de *Tecia solanivora* (Povolny) (Lepidoptera: Gelechiidae) en Ecuador. Avances en investigacion y manejo integrado de la polilla guatemalteca de la papa, *Tecia solanivora*. In : *Memorias de la polilla guatemalteca de la papa, Julio 2004*. II Taller Internacional de Polla Guatemalteca *Tecia solanivora*. Pontificia Universidad Catolica del Ecuador. pp. 95-99.
- Guiltinan, M. 2009. USAID IPM-CRSP Meeting on Integrated Pest Management, Part of INIAP 50<sup>th</sup> Anniversary Seminar Series. INIAP Tropical Research Station, Pichilingue, Los Rios, Ecuador.
- Maximova, S. 2009. Field Evaluation of Cacao Somatic Embryo-derived Plants and Molecular Basis of Fungal Endophyte/Host Interactions in *Theobroma cacao*. January 2009. USAID IPM-CRSP Meeting on Integrated Pest Management, Part of INIAP 50<sup>th</sup> Anniversary Seminar Series. INIAP Tropical Research Station, Pichilingue, Los Rios, Ecuador.
- Melnick, R. 2009. Biological control of cacao diseases using native *Bacillus* spp. USAID IPM-CRSP Meeting on Integrated Pest Management, Part of INIAP 50<sup>th</sup> Anniversary Seminar Series. INIAP Tropical Research Station, Pichilingue, Los Rios, Ecuador.
- Suquillo, J.P., P.D. Gallegos, J.M. Prado and P.Rodriguez G. 2004. Control de *Tecia solanivora* (Povolny) (Lepidoptera: Gelechiidae) en Almacenamiento Mediante Asolacion de Papa Para Semilla. Avances en investigacion y manejo integrado de la polilla guatemalteca de la papa, *Tecia solanivora*. In : *Memorias de la polilla guatemalteca de la papa, Julio 2004*. II Taller Internacional de Polla Guatemalteca *Tecia solanivora*. Pontificia Universidad Catolica del Ecuador. pp. 53-56.
- Vera, D; Suárez, C. Y Belezaca, C. 2001. Manejo integrado de problemas fitosanitarios en plataneras en Rehabilitación. In *Memorias, XI Seminario Nacional de Sanidad vegetal*. UTB. Pp. 230 - 236.
- Vera, D. and C. Suárez. 2001. Aproximación a la epidemiología comparativa de Sigatoka negra (*Mycosphaerella fijiensis*, Morelet) en Banano (*Musa AAA*) y plátano (*Musa AAA*). In *Memorias, XI Seminario Nacional de Sanidad vegetal*. UTB. Pp. 222 - 229.
- Yangari, B., J. Ochoa, J., and V. Galarza. 2001. "La marchitez vascular, una de las causas del colapso de la naranjilla comun en el valle de Pastaza." *Memorias: XI Seminario Nacional de Sanidad Vegetal*. Universidad tecnica de Babahoyo. Babahoyo-Ecuador. 189-194 pp.

### **Eastern Europe**

International Conferences "Integrated systems of field crops pest management, Balti 2009 and IOBC WORKING GROUP "Integrated Control in Protected Crops, Mediterranean Climate" 6-11 September 2009 Chania (Insecto-acaricidal effect of microemulsion based on rape seed oil derivatives V. Todorash , D.G. Pfeiffer, T. Tretiacov and V. Focsa)

Management of the Weed *Parthenium hysterophorus L.* in Eastern and Southern Africa Using Integrated Cultural and Biological Measures

Pfeiffer, D.G. 2007. A participatory appraisal of IPM in high-value horticultural crops in Albania, Moldova and Ukraine. Entomol. Soc. Am. Eastern Branch, Harrisburg PA. Mar 18-20.

The book Integrated pest management and quality assurance of stored products, 2009 (in Romanian) authors V. Todiras, Iu Balan., T. Tretiacov, was edited and published.

### **Egypt**

Saidov A.S., N.Sh. Saidov and B.R. Nakhshiniev. 2008. Effect of some aspects of climate change on fauna of Tajikistan. Ninth International Conference on Dryland Development, Sustainable Development in the Drylands Meeting the Challenge of Global Climate Change, 7-10 November 2008, Alexandria, Egypt. Abstracts of oral presentations, p. 38-39 (*in English*).

### **Guatemala**

Aguilar, L.C. and J.C. Rosales. 1996. Mediterranean Fly: Its Impact on Exports of Non Traditional Agricultural Products in Guatemala. p. 21-26. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

Alvarez, G. and H. Paz. 1996.. Solarization Periods, Liming and their Combination as Clubroot *Plasmodiophora brassicae*, in Broccoli, *Brassica oleracea* var. *italica*. p.49-50. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

Alvarez, G., M. Barrientos, and M. López. 1996. Methods of Control for Clubroot *Plasmodiophora brassicae* Control Methods in Broccoli, *Brassica oleracea* var. *italica*. p. 47-48. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

Asturias de Barrios, L., B. Tevalán, and G. Sullivan. 1998. Economic and socioeconomic impact assessment of non-traditional crop production on small farm households in Guatemala: a summary of results. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Asturias, L. and B. Tevalán. 1996. Socioeconomic Impacts of Non Traditional Export Crops in Guatemala: A Literature Review. p. 85-90. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

Asturias, L., B. Tevalan, G. Sullivan and J. Julian. 1999. Socioeconomic Impacts of NTAE Crops in Guatemala. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Calderón, E. 1995. Integrated Pest Management on Snowpea Crops. p. 65-70. In: Salguero, V. and G. E.Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.

Calderón, L., J.M. Castañeda, V. Salguero and D. Dardón. 1996. Color Evaluation in Trapping of Thrips, Leaf Miners, and White Flies in Snow Peas. p 35. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

Calderón, L., R. Morales, V. Salguero and D. Dardón. 1996. Effect of Different Color of Polyethylene Mulch on Snow Pea Pests and Yield. p. 39-40. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

- Calderón, L., V. Salguero and D. Dardón. 1996. Insecticide Evaluation for Leaf Miner Control in Snow Peas. p. 38. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Calderón, L., V. Salguero and D. Dardón. 1996. Leaf Miner Population Fluctuations in Snow Peas Located in the Guatemalan Central Highlands. p. 46. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Calderón, L., V. Salguero and D. Dardón. 1996. Effect of 3 Plastic Mulch Colors on Snow Pea Insect Pests. p. 41. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Caniz, L. 1996. Phytosanitary Preinspection: A Viable Solution to Avoid Interceptions? p.27-30. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Carranza, H. 1995. Problems with Chemical Pesticides on Broccoli Crops. p. 71-75. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- Carranza, H. F. Gomez; D. Dardón; and V. Salguero. 1995. Evaluation of Commercial Products Based on *Bacillus Thuringiensis* for Control of Lepidoptera Insects in Broccoli Crops. p. 123-140. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- Chaney, W.E. 1996. Overview of the Leafminer Crisis in California. p. 19-20. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Dardón, D. and H. Carranza. 1995. Achievement, Advances and Future of IPM-CRSP with ICTA. p. 118-122. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- Dix, A.M. and C.R. Carroll. 1998. The control of broccoli white grubs: a pilot program for Guatemala. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.
- España, G., G. Alvarez, and L. Calderón. 1996. Symptom Characterization and Distribution of *Leptosphaerulina* sp. in Snow Peas. p. 45. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Esquite, A., A. Alvarado, E. Landaverri, A. Hernández and A. del Cid. 1996. Transference of Technology to Produce Broccoli with Emphasis on Integrated Pest Management. p. 74. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Estrada, R. 1995. Biological Control within Integrated Pest Management in Guatemala. p. 24-29. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- First IPM CRSP Workshop, Guatemala City, Guatemala, June 1-2, 1995. Proceedings: IPM CRSP Support to Export Horticultural Production, Guatemala. Victor Salguero and Guillermo Sánchez, editors.
- Garcia, A.G. 1996. Management of Pest in Ecological Agriculture. p. 15-18. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

- Garcia, G., M.T.Aceituno, H.E. Carranza, D.E. Dardón. 1996. Determination of the Competition Critical Period Between Broccoli (*Brassica oleracea* var. itálica) and Weeds at Patzicia Valley, Guatemala. p. 61. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Hamilton, S. 2009. "Markets, Poverty, and the Environment in Central America: Policy recommendations based on socioeconomic studies from the IPM CRSP in Guatemala and Honduras. Presented at the University of Denver, Faculty Research Seminar Series, May 2009.
- Heffron, T. 1995. Consumers Perspective. p. 141-145. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- Kanagy, J.N. 1996. Selected Pest and Natural Enemy Populations in Swiss Chard Plots With and Without a Weedy Brassica Species. p. 68-69. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Lamport, P.P., S. C. Weller, G.H. Sullivan, C.R. Edwards, and G. E. Sánchez. 1999. "Use of trap crops for leaf miner control in snow peas." December 1999 Agritrade, Guatemala City, Guatemala, C.A.
- López, B. 1995. IPM Strategies in Integrated Legal Pest Management. p. 53-56. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- MacVean, C. and R. Pérez. 1996. A Taxonomic Survey of the Snowpea Leaf Mining Species (Agromyzidae) in the Guatemalan Highlands. p. 32-33. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Martinez, E. 1995. Pesticide Problems on Export Mango Crops. p.91-100. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- Morales, H. 1996. Pest Control and Soil Management in the Guatemalan Highlands: Understanding Traditional Agricultural Practices. p.70. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Morales, M., A. Orellana, D. Dardón, and V. Salguero. 1996. Application Thresholds for the Control of Aphids (Homoptera:Aphididae) in Broccoli (*Brassica oleracea* var. italic). p. 58. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Moreira, L. and E. Tecú. 1996. Participatory Community Diagnosis as a Base for IPM Interventions. p. 76-82. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Navas, V.E.S., S.C. Weller, and R.N. Williams. 1998. Biology and management of the pea leafminer *Liriomyza huidobrensis* (Blanchard) in snow pea. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.
- Salazar, J., D. Dardón and V. Salguero. 1996-7. Efecto del asocio tomate-maiz sobre poblaciones de moscas blancas y el acolochamiento en tomate. El Progreso, Guatemala. En: Memoria VI Taller Latinoamericano y del Caribe sobre moscas blancas y geminivirus. 18-19 Agosto, 1997. Santo Domingo, Republica Dominicana. 27 pp.

- Salazar, J., D. Dardón and V. Salguero. 1996-7. Metodos de produccion de plantas de tomate para evitar las infecciones virales, El Progreso, Guatemala. En: Memoria VI Taller Latinoamericano y del Caribe sobre moscas blancas y geminivirus. 18-19 Agosto, 1997. Santo Domingo, Republica Dominicana. 25 pp.
- Salazar, J.R, H. Vásquez, D. Dardón and V. Salguero. 1996. Farmers Validation of Integrated Management Practices to Control the Whitefly-Virus Complex on Tomato. p. 73. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Salguero, V. 1996. IPM CRSP Objectives and Achievements. p. 2-5. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Sánchez, G. E. and L. Caniz. (eds.). 2001. Integrated Pest Management in Non-traditional Agricultural Export Crops. Proceedings of Seminar IV held in Guatemala City, June 7-8, 2001. Abstracts only. IPM CRSP, Guatemala and ARF-AGEXPRONT.
- Sánchez, G. E. and M. Wade. 1996. Effects of Strip-Cropping on Insect Pests, Diseases and Yield of Broccoli at two Guatemalan Highland Locations. P 59-60. In: Salguero, V., Sánchez, G.E. and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Sánchez, G. E. and M. Wade. 1995. Agrilab: Situación Actual y Futuro dentro del IPM-CRSP. p 114-117. In: Salguero, V. and G. E. Sanchez. (eds). Memoria del Seminario Taller Apoyo del IPM-CRSP a la Producción Hortícola de Exportación, Guatemala.
- Sánchez, G. E. and R. N. Williams. 1995. Estrategias del MIP: Control Químico. p 10-23. In: Salguero, V. and G. E. Sanchez. (eds). Memoria del Seminario Taller Apoyo del IPM-CRSP a la Producción Hortícola de Exportación, Guatemala.
- Sánchez, G. E. and S. C. Weller. 1996. Effects of Strip-Cropping on Insect Pests and Diseases in Guatemalan Snow Pea Fields. p 36-37. In: Salguero, V., Sánchez, G.E. and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Sánchez, G., G. Sullivan, S. Weller, C. MacVean, R. Pérez, R. Williams, and L. Calderón. 1999. IPM CRSP Technical Assistance Response in Solving the Guatemalan Snow Pea Quarantine Due to Leafminer. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.
- Sánchez, G.E. Methods to Foster IPM Diffusion in Central America. Presented at the Globalizing IPM through Participatory Research CRSP meeting, Washington, DC, August 6, 2004.
- Sánchez, G.E. 1995. Problemas Fitosanitarios en Mora y Frambuesa en Guatemala. p 76-91. In: Salguero, V. and G. E. Sanchez. (eds). Memoria del Seminario Taller Apoyo del IPM-CRSP a la Producción Hortícola de Exportación, Guatemala.
- Sánchez, G.E., J. DelCid and R.N. Williams. 1998. Assessment of blackberry and raspberry diseases found in Guatemala. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.
- Sánchez, G.E., J.L. Sandoval, E. Santizo, L. Calderón, L. DeLeon, S.C. Weller and G.H. Sullivan. 1998. Integrated management of snow peas and sugar snaps (*Pisum sativum*) in Guatemala. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

## Publications/Products List

- Sanchez, G.E., S. Weller, G.H. Sullivan, L. Calderon, and L. Caniz. 1999. Establishment of an APHIS-approved Pre-inspection Program for Snow Peas in Guatemala under IPM CRSP. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.
- Sánchez, G.E., Salguero, V. E. and R. N. Williams. 1996. Benefits and Difficulties in the Implementation of Integrated Pest Management Programs in Non-al Export Crops. p 6-10. In: Salguero, V., Sánchez, G.E. and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Santa Cruz, R. 1996. IPM Research Needs on Non-Traditional Export Crops. p. 11-12. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Santa Cruz, R. 1995. Problemas Fitosanitarios en Cultivos no Tradicionales de Exportación. p. 58-64. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- Santizo, E., J. Sandoval and E. Calderón. 1996. Transference of Technology on Snow Peas. p. 72. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Second IPM CRSP Workshop, Guatemala City, Guatemala, July 11- 12, 1996, Proceedings: Integrated Pest Management in Non-Traditional Export Crops. Victor Salguero, Guillermo Sánchez, and Linda Asturias de Barrios, editors.
- Solis, L.F. and C. Ramos. 1996. Effect of *Bacillus subtilis* Soil Applications on the Control of *Fusarium oxysporum* in Snow Pea. p. 42-43. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Solis, L.F. and H.S. Flores. 1996. Evaluation of *Bacillus subtilis* in the Control of *Fusarium oxysporum* with Different Varieties of Snow and Sweet Peas. p. 44. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Solis, L.F. and V. Salguero. 1996. Leaf Miner Habits (*Liriomyza huidobrensis*) in Snow and Sweet Pea. p. 34. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.
- Solorzano, R. 1995. Importance of Organic Production Systems in Sustainable Agriculture. p. 40-50. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- Sullivan, G. D. Dardón and L. Asturias. 1995. The Role of IPM CRSP in Achieving Global Food Safety and Production Sustainability. p.103-107. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.
- Sullivan, G. H. 1998. The purpose of the IPM CRSP Symposium and Technical Committee Meeting. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.
- Sullivan, G.H. and J. W. Julian. 1999. "Food Safety and Market Development Implications in the NTAE Sector", Proceedings, December 1999 Agritrade Conference, Guatemala City, Guatemala, C.A.
- Técnico E. 1996. Recovery of Farmer Knowledge Salamá Purulha, Baja Verapaz. p. 83-84. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

## Publications/Products List

Tolin, S. A. 2008. Management of vector-borne viruses in plants. Presentation to the Workshop sponsored by the IPM-CRSP Global Theme on Diagnostics - IPDN. Guatemala City, Guatemala.

Tolin, S. A. 2008. Management of vector-borne viruses in plants. Presentation to the Workshop sponsored by the IPM-CRSP Global Theme on Diagnostics - IPDN. Guatemala City, Guatemala.

Trabanio, C.E. 1996. Population Dynamics of Whitefly Adults *Bemisia argentifolii* found in Melon in Northeastern Guatemala. p. 66. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

Vasquez, H., J. Salazar, D. Dardon, and V. Salguero. 1996-7. Validacion de tecnologias sobre el manejo integrado de mosca blanca en tomate: Una experiencia en seguimiento para que los productores adopten tecnologias MIP, El Progreso, Guatemala. En: Memoria VI Taller Latinoamericano y del Caribe sobre moscas blancas y geminivirus del 18-19 Agosto. 1997. Santo Domingo, Republica Dominicana. 28 pp.

Villatoro, A. 1996. Evaluation of Insecticides to Control Whitefly, *Bemisia argentifolii* in Melon. p. 67. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

Wade, M. and G. Sánchez. 1996. Chicken Litter Increased Broccoli Yields. p. 62-63. In: Salguero, V., G.E. Sánchez, and L. Asturias de Barrios. (eds) Proceedings of the Integrated Pest Management in non-traditional export crops seminar. Guatemala, Central America.

Weller, S. 2004. Markets and Trade: Incorporating Pre-inspection Issues in IPM for Non-Traditional Agriculture Export Crops. Presented at the Globalizing IPM through Participatory Research CRSP meeting, Washington, DC, August 5, 2004.

Weller, S. and V. Salguero. 1995. Varietal and Cultural Control of Pests in Integrated Pest Management Programs. p.30-39. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.

Williams, W. 1995. Integrated Pest Management Philosophy. p. 2-9. In: Salguero, V. and G. E. Sánchez. (eds). IPM CRSP Support to Export Horticultural Production, Guatemala.

### **Honduras**

Hamilton, S. 2008. La importancia de la temática de género en el manejo integrado de plagas y la agricultura sostenible. Proceedings of the XI International Integrated Pest Management Congress, Tegucigalpa, Honduras, October 2008

Hamilton, S., V. Mérida and L.M. Mazariegos. 2008. Incorporación de MIP en una escuela rural de Guatemala: Lecciones aprendidas para transferencia en Centroamérica. Proceedings of the XI International Integrated Pest Management Congress, Tegucigalpa, Honduras, October 2008

Melgar, J.C. 2005. Management factors limiting melon production in southern Honduras. National Autonomous University, Honduras.

### **India**

Anbukkarasi, V., P. Paramaguru, and L. Pugalendhi. 2010. Effect of different packing and storage treatments of quality and shelf life of onion (*Allium cepa* var. *aggregatum* Don.). In International conference on food technology, Indian Institute of Crop Processing Technology, October 30-31.



## Publications/Products List

Anbukkarasi, V., P. Paramaguru, and L. Pugalendhi. 2010. Effect of pre-harvest treatments on post-harvest quality and storage of onion (*Allium cepa* var. *aggregatum* Don.). In International conference on food technology, Indian Institute of Crop Processing Technology, October 30-31.

Dinakaran, D. 2011. Enumeration of microbial population in the bioformulations. pp. 131-133. In the Lecture notes of IPM CRSP Sponsored International workshop on "Production of Bio-control agents (*Pseudomonas* and *Trichoderma*)", Department of Plant Pathology, CPPS, TNAU, Coimbatore, July 18-22.

Heinrichs, E.A. 2008. Grafting workshop conducted in India. In: IAPPS Newsletter, April, 2008.

M.S. Nahar, M.A. Rahman, G.N.M. Ilias, M. Arefur Rahman, R. Sulatana, A.N.M.R. Karim and S.A. Miller. 2009. Use of nematode as soil enrichment indicator. Paper presented at the II National Seminar on Earthworm Ecology and Environment and IX National Symposium on Soil Biology and Ecology. Institute of Agriculture, Visva-Bharati, Sriniketan-731236, West Bengal, India, 21-23 November 2009 (Accepted for presentation).

Nahar, M.S., M.A. Rahman, G.N.M. Ilias, M.A. Rahman, R. Sulatana, A.N.M.R. Karim and S. Miller. 2009. Tricho-compost and its use for soil health management and production of some vegetable crops. Paper presented at the II National Seminar on Earthworm Ecology and Environment and IX National Symposium on Soil Biology and Ecology. Institute of Agriculture, Visva-Bharati, Sriniketan-731236, West Bengal, India, 21-23 November 2009 (Accepted for presentation).

Paper presented at the Annual Meeting of Phytopathological Society of America, Portland Oregon, USA.

Press Coverage: 3 +1

Raghu, D., N. Senthil, M. Raveendran, G. Karthikeyan, L. Pugalendhi, K. Nageshwari, G. J. Janavi, R. Janajeevan, and C. Mohan. 2011. Eradication of Cassava Mosaic Disease from high yielding Indian Cassava clone through apical meristem – tip culture for small farmers. International Conference on 'Preparing Agriculture for Climate Change' organized by The Crop Improvement Society of India, February 6-8.

Ramakrishnan, S., E.I. Jonathan, and I. Cannayane. 2011. Influence of flyash on phytonematode. In the National Seminar on "Fly ash based amendments for amelioration of degraded soil in Gangetic plains," CSSRI, Regional Station, Lucknow – jointly organized by National Institute of Ecology and Central soil salinity Research Institute, Karnal and sponsored by DST, New Delhi, May 7-8.

Ramjagathesh, R., G. Karthikeyan, B. Meena, R. Raguchander and R. Samiyappan. 2010. A fast and versatile molecular tool for detection of root (wilt) phytoplasma in coconut palms. International Conference of Coconut Biodiversity for Prosperity, Central Plantation Crops Research Institute, Kasaragod, Kerala. October 25-28.

Saraswathi, T., K. Venkatesan, K. Nageswari, L. Pugalendhi, and S. Natarajan. 2011. Evaluation of orange fleshed sweetpotato entries under Tamil Nadu condition. In the national seminar on climate change and food security: Challenges and opportunities for tuber crops. In the Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala, January 20-22.

Sathyamurthy, V. A., and L. Pugalendhi. 2011. Precision farming techniques in vegetable crops. In the District level seminar on application of precision farming techniques in vegetable and spice crops, RVS Kumaran Kalyana Mandapam, Trichy Road, Sulur, Coimbatore, February 27-28.

Selvakumari, P., K. Venkatesan, P. Jeyakumar, L. Pugalendhi and P. Paramaguru. 2010. Response of tomato (*Solanum lycopersicon* Mill.) to soil application and foliar spray of seaweed gel formulation. Indian society for plant physiology zonal conference on recent trends in plant physiology and crop improvement, School of bio science and technology, VIT University, Vellore, October 22.

Senthamizh, K., G. Gajendran, and G. Kathiresan. 2010. Onion Nematodes. In P. Murugesu Boopathi, K. Vairavan, M. Manimekalai, C. Swaminathan, and P. Vellaiyan (eds.), Souvenir of State level seminar on "Agriculture through Scientific Tamil," AC & RI, Madurai, October 7-8.

Sharmila, R., S. Ramakrishnan, S. P. Deepa, and I. Cannayane. 2011. Effect of flyash on root knot nematode and beneficial nematode population. In the Proceedings of National Symposium on Harnessing biodiversity for biological control of crop pests, Society for Biocontrol Advancement, NBAII, Bangalore, May 25-26.

Shylena, Y., and R. Anwar. 2010. Insiden cendawan Entomophthorales pada kutu putih pepaya, *Paracoccus marginatus*, pada pertanaman pepaya di Bogor. In the Nasional Seminar PEI Cabang Yogyakarta, October 1-2.

Ssonko, R.N., J. Karungi, S. Kyamanywa, J. Kovach, and J.M. Erbaugh. 2011. Effect of grafting with indigenous rootstocks and cultural practices on infestation of key insect pests and bacterial wilt disease of tomato in Uganda' at the 3rd Annual Makerere Research and Innovations Dissemination Conference, Hotel Africana, Kampala, April 11-12.

Thiagarajan, T, and S. Mohankumar. 2011. Molecular characterization of *Bemisia tabaci* populations. Presented in Tamil Nadu State Council for Science and Technology - science meeting organized at PSG college, Coimbatore.

### Jamaica

Clarke-Harris, D. O. and S. J. Fleischer. 1999. Development of a Sequential Sampling Plan for a Complex of Lepidopteran Larvae in Vegetable Amaranth in Jamaica. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Clarke-Harris, D.O. 2003. Rational pesticide use in IPM of pesticide-reliant vegetable crops in the Caribbean. In *Proc. Caribbean Food Crops Society Thirty Ninth Annual Meeting 2003*, Grenada. XXXIX(2):152-156.

Fery, R. L., and J. A. Thies. 1998. Genetic analysis and assessment of southern root-knot nematode resistance in hot pepper (*Capsicum chinense*). p. 16-18. In: Proc. National Pepper Conf., San Antonio, TX, October 13-15, 1998.

Fery, R. L., J. A. Thies, and S. C. Weekes. 1999. Southern Root-knot Nematode Resistance in Hot Pepper (*Capsicum chinense*): Potential for the Development of Resistant Cultivars for the U. S. and Caribbean Markets. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Fery, R.L., and J.A. Thies. 1996. Evaluation of *Capsicum chinense* cultivars for resistance to *Meloidogyne incognita*. p. 34-35. In: D. N. Maynard. (ed.). Proceedings of the National Pepper Conference, Naples, FL.

Haenchen, C., F. Eivazi, and J. Lindsay. 1999. Increasing Phosphorus Availability to *Capsicum chinense* Jacq. in Tropical Soils. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Huelsman, M.F., C.A. Edwards, J.L. Lawrence, and D.O. Clarke-Harris. 2000. A study of the effect of soil nutrient levels on the incidence of insect pests and predators in Jamaican sweet potato (*Ipomoea batatas*) and callaloo (*Amaranthus*). *Proceedings of The Brighton Crop Protection Conference - Pests & Diseases* 2000. pp 895-900.

Jackson, D. Michael, J. R. Bohac, J. Lawrence, and J. D. Mueller. 1999. Multiple Insect Resistance in Dry-Fleshed Sweet Potato Breeding Lines for the USA and Caribbean. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

## Publications/Products List

Lawrence, J. L. (1998). An Integrated Pest Management Approach to Hot Pepper Production and Marketing in Jamaica. Proceedings of CARDI/IICA/MINAG Seminar “ An Integrated Commodity Research Approach to the development of the Hot Pepper Industry. St Mary, Jamaica. (November 31<sup>st</sup>, 1998). St Mary, Jamaica. pp. 8-14

Lawrence, J., J. Bohac, and S. Fleischer. 1998. Sweetpotato weevil integrated pest management. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Lawrence, J., S. Fleischer and J. Bohac. 1998. Integrated Pest Management of the Sweetpotato Weevil: A pilot study in South Central Jamaica. 34th Annual Caribbean Food Crops Society Meeting. Montego Bay, Jamaica, July 12 - 18th, 1998.

Lawrence, J.L., C.A. Edwards, M. Schroeder, R.D. Martin, F.D. McDonald, and J. Goldsmith. 2000. An integrated approach for managing hot pepper pests in the Caribbean. *Proceedings of The Brighton Crop Protection Conference - Pests & Diseases* 2000. pp 239-244.

Lawrence, J.L., D. M. Jackson and J. R. Bohac. 1999. Evaluation of USDA Sweet Potato Breeding Lines as a Potential Tactic for Managing Sweet Potato Pests in the Caribbean and the USA. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Martin, R., L. Myers, S. McDonald, and F. W. Ravlin. 1999. Seasonal Incidence of Hot Pepper Pests in Major Hot Pepper (*Capsicum* spp.) Producing Areas in Jamaica. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

McDonald, F. D. (1998). *CARDI's research for development strategy: pepper case study*. Proceedings of CARDI/IICA/MINAG Seminar “ An Integrated Commodity Research Approach to the development of the Hot Pepper Industry. St Mary, Jamaica. (November 31<sup>st</sup>, 1998). St Mary, Jamaica. pp. 4-8

Ravlin, F.W., J. Reid, P. Chung, E.A. Roberts and S. Feizabadi. 1998. Information technologies to enhance international IPM research programs. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Reid, J.C., D. Clarke-Harris, P. Espeut, C. Edwards and D.G. Robinson. 1998. Pesticide use and residues in vegetable amaranth (*Amaranthus viridis*) in Jamaica. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Thies, J. A., and R. L. Fery. 1996. Comparison of pre-plant fumigation with methyl bromide and differing levels of host plant resistance for managing southern root-knot nematodes in pepper. 1996 Annual Intl. Research Conf. on Methyl Bromide Alternatives and Emissions Reductions. November 4 - 6, 1996. Orlando, FL, p. 117/1-117/4.

Thies, J. A., and R. L. Fery. 1997. Heat stability of root-knot nematode resistance in bell pepper. Annual Intl. Conf. on Methyl Bromide Emissions Reductions. November 3-5, 1997. San Diego, CA, p. 32/1-32/2.

Thies, J. A., L. Fery, J. D. Mueller, and S.C. Weekes. 1999. Potential for Using Resistant Peppers to Manage Southern Root-knot Nematodes in Vegetable Crops. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Tolin, S. 2004 Lessons from the Caribbean: What Worked, What Didn't, What Will Continue, What Is Needed? In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

### Kazakhstan

Kubat, J., M. Rashidov and M. Aitmatov. 2008. Terminological dictionary on plant protection. (in Russian, Kirghiz, Latin, Uzbek and English) Kyrgyz agrarian university (Kyrgyzstan) and Tashkent State agrarian university (Uzbekistan), Bishkek, 2008. 56 pg.

Tashpulatova B., F. Zalom and J.T. Tumanov. 2008. Biological control of *Thrips tabaci* (Thysanoptera:Thripidae) using *Amblyseius mckenziei* (Acarina:Phytoseiidae) on onion crop in Kyrgyzstan and Uzbekistan. Proceedings of the International Scientific-Practical Conference "Achievements and problems of plant protection and quarantine" dedicated to the 50th Anniversary of Kazakh Research Institute of Plant Protection and Quarantine. Almaty - Rakhat, Kazakhstan. November 6-8, part 1, pp. 156-158 (in English);

### Kenya

Otipa M.J. Distribution, Characterization and Reaction of Passion fruit germplasm to Viruses in Kenya. PhD proposal presented during the annual Post-graduate seminar (1st August, 2008) at Jomo Kenyatta University of Agriculture and Technology. Supervisors; Dr. Elijah Ateka and Dr.Edward Mamati (Department of Horticulture-JKUAT) and Dr Douglas Miano KARI-Biotechnology Centre

Otipa, M. J., Amata, R. L., Waiganjo, M., Ateka, E., Mamati, E., Miano, D., Nyaboga, E., Mwaura, S., Kyamanywa, S.; Erbaugh, M. and Miller, S. Incidences, Severity and Identification of Viral diseases in Passion fruit production systems in Kenya. A poster presented in the 1st African Biotechnology Congress in Nairobi, Kenya (22nd -26th Sept 2008).

Waiganjo, M.M., S.N. Kuria, C.K. Kambo, Njeru, S. Wepukhulu, S. Kyamanyua, J. Kovach, S. Miller, M. Erbaugh, and M. Kleinhenz. 2010. Screenhouse Tomato Seedling Establishment for Profitable Pest Management among Smallholder Farmers in Kirinyaga District, Kenya. Presented during the 10<sup>th</sup> Horticultural Association of Kenya Workshop, AICAD, JKUAT, December 8-11.

Waiganjo, M.M.; Ngari, B; Wabule, M.N; Wepukhulu, S.B; Kovach, J; Taylor, D. Biological Monitoring of Tomato Pests to Ascertain Baseline Information on The Crop Production Constraints in Kirinyaga District, Kenya. Manuscript for Presentation during the 11th KARI Biennial conference and inclusion in a special Edition of the East African Agricultural and Forestry Journal published by KARI.

### LAC

Backman, P., B. Bayley and R. Collins. 2009. A short seminar about "Introduction to Endophytes-Endophytic Interactions between *Trichoderma* spp, *Bacillus* spp and cacao in Pichilingue for facilitators, teacher, scientists and students.

Díaz, F.J. and S. Weller. 2009. Evaluation of the reaction to the root knot nematode (*Meloidogyne* spp) of varieties of Cowpea [*Vigna unguiculata* (L.)] used as a rotation crop in horticultural soils. XI International Congress of the Mesoamerican region on Integrated Pest Management, held in Tegucigalpa

Durán, L.F., F.J. Díaz, J.M. Rivera C. and S. Weller. 2009. Effect of the orientation, number, and nozzle type on the chemical control of onion thrips, *Thrips tabaci* in onions. XI International Congress of the Mesoamerican region on Integrated Pest Management, held in Tegucigalpa

Espinoza, H.R. and S. Weller. 2009. Efficacy of hot water treatment for the control of the strawberry mite in strawberry planting material. XI International Congress of the Mesoamerican region on Integrated Pest Management, held in Tegucigalpa

Espinoza, H.R. and S. Weller. 2009. Release of predatory mites for the control of phytophagous mites in Chinese eggplant. XI International Congress of the Mesoamerican region on Integrated Pest Management, held in Tegucigalpa

## Publications/Products List

- Espinoza, H.R. and S. Weller. 2009. Release of predatory mites for the control of phytophagous mites in strawberry. XI International Congress of the Mesoamerican region on Integrated Pest Management, held in Tegucigalpa
- Flowers, W. 2009. Training on insects and arthropods identification to INIAP and AGROCALIDAD staff and has given short courses on this topic for the above and local Universities (Army Politecnic, UTEQ) which is improving the status of the entomological science in the country.
- Melgar, J.C., F.J. Díaz and S. Weller. 2009. Solarization of seed germination substrates and soil of field production plots for control of soil borne pests and diseases. XI International Congress of the Mesoamerican region on Integrated Pest Management, held in Tegucigalpa
- Melnick, R. and P.A. Backman. 2009. Ability of endophytic *Bacillus* spp. to activate plant defense genes of *Theobroma cacao*. March 2009. American Phytopathological Society Potomac Division Meeting. Gettysburg, PA.
- Melnick, R. and P.A. Backman. 2009. Ability of endophytic *Bacillus* spp. to activate plant defense genes of *Theobroma cacao*. March 2009. American Phytopathological Society Potomac Division Meeting. Gettysburg, PA.
- Melnick, R. and P.A. Backman. 2009. Impact of application of endophytic *Bacillus* spp. for biocontrol of cacao diseases on native microbial communities. August 2009. American Phytopathological Society Annual Meeting. Portland, OR.
- Melnick, R. and P.A. Backman. 2009. Impact of application of endophytic *Bacillus* spp. for biocontrol of cacao diseases on native microbial communities. August 2009. American Phytopathological Society Annual Meeting. Portland, OR.
- Ochoa, J., P. Gallegos, C. Asaquibay, J. Alwang and V. Barrera. 2009. "IPM CRSP: Socializacion de Resultados." Seminar to INIAP Staff May 25, 2009. Santa Catalina, Ecuador
- Ochoa, J., P. Gallegos, C. Asaquibay, J. Alwang and V. Barrera. 2009. "IPM CRSP: Socializacion de Resultados." Seminar to INIAP Staff May 25, 2009. Santa Catalina, Ecuador
- Ochoa, J., P. Gallegos, C. Asaquibay, J. Alwang and V. Barrera. 2009. "IPM CRSP: Socializacion de Resultados." Seminar to INIAP Staff May 25, 2009. Santa Catalina, Ecuador
- Ochoa, J., P. Gallegos, C. Asaquibay, J. Alwang and V. Barrera. 2009. "IPM CRSP: Socializacion de Resultados." Seminar to INIAP Staff May 25, 2009. Santa Catalina, Ecuador
- Tolin, S. A. 2011. Combining diagnostics and 'on the ground' virus disease management. In the New Generation Diagnostics Symposium, Southern Branch of the Entomological Society of America and the Caribbean Division of the American Phytopathological Society, San Juan, Puerto Rico, March 19-22.

## **Mali**

- Caldwell, J.S., G. K. Touré, M. Erbaugh, B. Dembélé, C.R. Edwards, and A. Diarra. 1998. Merging farmer knowledge and priorities with scientific knowledge and research methods for participatory development of IPM technology for control of blister beetles and *Striga* parasitic weed in Mali, West Africa. Pp. 1030-1037 in: Association for Farming Systems Research-Extension (AFSRE), Proceedings of the 15th International Symposium, Rural Livelihoods, Empowerment, and the Environment: Going Beyond the Farm Boundary. AFSRE, Pretoria, South Africa, 29 November-4 December 1998.
- Dem, S B., D. Mullins, J. Cobb, P. A. Hipkins, K. M. Moore, H. Traoré, K. Gamby, and I. Sidibé 2003. Environmental study of pesticide residues in soils and water in cotton growing areas in Mali. National

Pesticide Stewardship Alliance Annual Conference. Tucson, AZ October, 2003.

<http://www.npsalliance.org/Conf2003/PDF2003/SDem.pdf>

Dembélé, B., A. Diarra, J. Caldwell. 2000. Évaluation participative de l'association mil/niébé dans la lutte intégrée contre le Striga au Mali; INTER CRSP Workshop, Bamako, January 30 to February 4, 2000. 10 p.

Dembélé, B., A. Diarra, J.S. Caldwell and B. Gebrekidan. 1998. Integrated *Striga* management on sorghum, millet and cowpea in Mali. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Dembélé, B., A. Diarra, J.S. Caldwell, and S.H. Traoré. 1999. Integrated Management of *Striga* Parasitic Weed in Millet/Cowpea Association and Adaptability of *Striga*-Tolerant Sorghum Varieties under Farmer Conditions in Mali. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Dunkel, F.V., K. Gamby, M. Diakete, A. Konate, K. Toure, and D.A. Jenkins. 1999. Integrating Local Natural Products Into Pest Management Systems and the Local Economic Base of Sahelian/Near-Sahelian Mali. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Gamby, K.T., F.V. Dunkel and D.A. Jenkins. 2002. Postharvest alternatives in cowpea system: Use of neem and other bioactive plant products in Mali. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 109-115.

Jenkins, D.A., F.V. Dunkel, M.J. McClelland, and K.T. Gamby. 1999. Preparing Natural Products for Use in IPM Programs Throughout the World: Semi-Subsistence Technology and Crop Protection in Mali (West Africa). In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Mullen, J.D., D. Kebe, D.B. Taylor and M. Fofana. 1999. Modeling Long-Run Striga Control in Mali. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Russ, A.D., M. Fofana, D.B. Taylor, Sissoko, R. Balakrishnan and T. Yamagiwa. 1998. Gender differentiated constraints in Malian semi-subsistence production: implications for integrated pest management and food security. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Touré, G.K., C.R. Edwards and J. Caldwell. 1998. Use of neem, cultural practices, and insect-resistant varieties for insect pest management in millet/cowpea association in the OHVN zone of central Mali. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Touré, G.K., C.R. Edwards, J. Caldwell, and S.H. Traoré. 1999. Approaches to Blister Beetle Control on Millet: Botanical and Biological Agents, Associational Resistance, Varietal Resistance, and Light and Pheromone Traps. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Toure, K. Utilisation des produits vegetaux (*Azadirachta indica*. Juss et *Ocimum basilicum* Sims) et locauz (savon) dans la protection du niebe (*Vigna unguiculata* L. Walp.)

Toure, K. and F.V. Dunkel. Variation de la composition biologique et de l'efficacite de l'huile de grains de neem (NKE) en fonction du temps et de la temperature de conservation. Proc. Joint Congress of the Entomological Society of Southern Africa and the African Assoc. of Insect Scientists. Stellenbosch, South Africa. 30 Jun to 4 July, 1997. in press.

## Philippines

- Alberto, R.T., L. Sanchez, G. B. Amar, J. Rillon, V.L. Judal, M. Valdez, S.E. Santiago, and S.A. Miller. 1999. Management of Soil-Borne Diseases in Rice-Vegetable Systems. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.
- Baltazar, A.M., E.C. Martin, A.M. Mortimer, M.C. Casimero, S.R. Obien, and S.K. De Datta. 2001. Reducing *Cyperus rotundus* tuber populations using stale-seedbed techniques in rice-onion systems. Proceedings of 18th Asian-Pacific Weed Science Society conference. Beijing, China. May 28-June 2, 2001. Pp. 215-223.
- Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien, S.K. DeDatta. 1997. Characterization of Purple Nutsedge in Rainfed Rice-Onion Systems. In A. Rajan (ed.) Proceedings of Sixteenth Asian-Pacific Weed Science Society Conference. 1997, pp.326-329.
- Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien and S.K. DeDatta. 1998. Weed management in rice-onion systems. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.
- Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien, and S.K. De Datta. 1999. Major Weeds and Their Management in Rainfed Rice-Onion Cropping Systems in the IPM CRSP Asian Site in the Philippines. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.
- Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien, and S.K. De Datta. 1999. A survey of weeds in rainfed rice-onion cropping systems in Central Luzon, Philippines. Proceedings 17<sup>th</sup> Asian-Pacific Weed Science Society (APWSS) Conference, Bangkok, Thailand, November 1999, pp 65-70.
- Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien, and S.K. De Datta. 1999. Weed management strategies in onion grown after rice. Proceedings 17<sup>th</sup> Asian-Pacific Weed Science Society (APWSS) Conference, Bangkok, Thailand, November 1999, pp. 308-316.
- Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien, S.K. DeDatta. 1997. Characterization of Purple Nutsedge in Rainfed Rice-Onion Systems. In A. Rajan (ed.) Proceedings of Sixteenth Asian-Pacific Weed Science Society Conference. 1997, pp.326-329.
- Casimero, M.C., A.M. Baltazar, J.S. Manuel, S.R. Obien and S.K. De Datta. 1999. Morphologic and genetic variations in upland and lowland ecotypes of purple nutsedge in rainfed rice-onion systems. Proceedings 17<sup>th</sup> Asian-Pacific Weed Science Society (APWSS) Conference, Bangkok, Thailand, November 1999, pp. 134-139.
- Casimero, M.C., A.M. Baltazar, J.S. Manuel, S.R. Obien, and S.K. De Datta. 2001. Population dynamics and growth of weeds in rice-onion systems in response to chemical and cultural control methods. Proceedings of the 18th Asian-Pacific Weed Science Society conference. Beijing, China. May 28-June 2, 2001. Pp 48-56.
- Gapasin, R.M., J.L. Judal, C. Pile, E. Gergon and J. Halbrendt. 1998. Management of root-knot nematode (*Meloidogyne graminicola*) in rice-onion system. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.
- Gapud, V.P., C.C. Pile, B. Santiago, R.C. Suiza, E.C. Martin, G. Balagot, M.C. Lit, E. Rajotte, and N.S. Talekar. 1999. Management of Eggplant and String Bean Insect Pests in Rice-Vegetable System. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Gergon, E.B., R. Gapasin, M. Castillo, V. Judal, C. Pile, C. Ravina, J. C. Prot, and John Halbrendt. 1999. The Rice Root-knot Nematode and Its Management in Rice-Vegetable Systems. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Miller, S. 2004 Lessons From Asia: What Worked, What Didn't, What Will Continue, What Is Needed? In: Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Opena, J.L., and A.M. Baltazar. 2009. Integrated weed management using stale-seedbed and other cultural practices in eggplant and pechay in southern Luzon, Philippines. Presented at the 40<sup>th</sup> conference of the Pest Management Council of the Philippines. Baguio City, Philippines. May 5-8, 2009

Padua, L.E., V.P. Gapud, R.C. Suiza, E.C. Martin, C.V. Pile, B. Santiago, N.S. Talekar, G. Recta, and E. Rajotte. 1999. Management Tactics for Spodoptera Control. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Proceedings of "Symposium on IPM in Rice-Vegetable Systems in the Philippines: Status, Constraints and Prospects," held on 2-4 October 1996, sponsored mainly by IPM CRSP and PhilRice, organized by V.Gapud, for publication in August, 1997.

### **South Africa**

Strathie, L.W., A.R. Wood, C. van Rooi and A.J. McConnachie. 2005. *Parthenium hysterophorus* (Asteraceae) in southern Africa, and initiation of biological control against it in South Africa. In: Proceedings of Second International Conference on Parthenium Weed Management, 5-7 December 2005, Bangalore India. pp. 127 - 133

### **Plenary Session Papers**

- 1) S.K. DeDatta, IPM CRSP: A Global Perspective
- 2) J. Eusebio, Status of Vegetable Production in the Philippines
- 3) N. Roperos, Vegetables in the Key Commercial Crops Development Program
- 4) A.M. Baltazar, Weeds and Weed Management in Rice-Vegetable Systems in the Philippines
- 5) J. Binamira, KASAKALIKASAN: The National IPM Program
- 6) K.L. Heong, IPM: Paradigms, Research, and Problems of Farmer Adoption
- 7) R. Maghirang, Varietal Improvement Program for Vegetables
- 8) G. Magsino, Role of Pesticides and the Pesticide Industry in Vegetable IPM
- 9) E. Espejo and C. Sagudan, The Role and Status of Vegetable Training Programs
- 10) M. Whitten, The Empowerment of Vegetable Farmers in the Philippines using IPM as an entry point: A four-way partnership between farmers, researchers, trainers, and industry
- 11) M. Shepard, IPM in Vegetables: The Indonesian Experience
- 12) G. Prain, Farmer Participatory Research on Vegetables: CIP UPWARD Experience
- 13) K.L. Heong and A. Lazaro, Farmers' Pest Perception and Pest Management Practices: Nueva Ecija Case
- 14) O. Sison, The Other Side of Women in Vegetable IPM
- 15) R.S. Rejesus, Postharvest Research on Vegetable Pests and Diseases
- 16) A.C. Rola, Marketing Systems and Risk Levels in Vegetables

### **Scientific Session Papers**

#### **1. Varietal Resistance Studies and Seed Quality in Vegetables**

E. Fernandez. Varietal Resistance of Vegetables to Pests: Update



L. M. Dolores, O.A. Licardo, and N.L. Opina, Varietal Resistance of Vegetables to Major Diseases: Update  
R. Mondragon. Vegetable Seed Industry in Relation to Vegetable Crop Production.

**2. Pesticide Use in Vegetables**

R. Bayot, National Survey on Pesticide Use in Vegetables  
J. Soriano, Contribution of Pesticide Industry to Vegetable Industry

**3. Carry-over Problems in Rice-Vegetable Systems**

R. Gapasin, E. Gergon, J.C. Prot, *Meloidogyne graminicola*: A Potential Problem in Rice-Vegetable Cropping System

**4. Status of IPM in Vegetables in Selected Regions**

C. Banigued, Integrated Pest Management in Highland Vegetables  
S. Barroga and T. Marcos, Management of Pests in a Rice-Vegetable System in the Ilocos  
B.M. Rejesus, Cotesia-based IPM for Crucifers at Low Elevations  
M.K. Palomar and L. Villacarlos, Sweet Potato Weevil Management: IPM in Root Crops  
B. Zaragosa, IPM in Tropical Vegetables in Region V  
E. Maape, IPM in Tropical Vegetables in Region X

**5. Current Innovations for IPM**

D. Santiago, Microbial Control of Vegetable Pests  
R. Zorilla, Research and Development on Biological Control of Plant Parasitic Nematodes in the Philippines  
M. Castillo, Biofertilizers for Nematode Control and as Fertilizers Workshop Sessions

Sanchez, L., J. Rillon, and S.A. Miller. 1998. Damping-off and bulb rot in onion production. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Sigsgaard, L., S. Villareal, V.P. Gapud, and E. Rajotte. 1999. Directional Movement of Predators Between The Irrigated Rice Field and Its Surroundings. In: Biological Control in the Tropics, Towards efficient biodiversity and bioresource management for effective biological control. Proceedings of the Symposium on Biological Control in the Tropics. Loke Wai Hong, Soetikno S. Sastroutomo *et al.* (Eds). The National Council for Biological Control (NCBC in collaboration with CAB International, South East Asian Regional Centre, Malaysia. MARDI Training Centre, Serdang, Malaysia from 18-19 March 1999, p. 43-47.

Talekar, N.S. 1998. Biological control-based IPM of diamondback moth in Asia. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

Tjornhom, J.D., G.W. Norton, and V. Gapud. 1998. Pesticide policy dimension of integrated pest management. In: Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium. 16-20 May 1997, Guatemala City, Guatemala.

**Tajikistan**

Saidov N.Sh., D.A. Landis, A. Fiedler, V.K. Nazirov and A. Khalimov. 2008. The role of nectar plants on attraction natural enemies in agrolandscapes. Proceedings of the International Scientific-Practical Conference dedicated to the 60th Anniversary of Department of Biology of National University of Tajikistan. Dushanbe (Душанбе), December 19-20, 2008, p. 27-28 (*in Russian*).

Saidov N.Sh., A.U. Jalilov, T. K. Mirzoev, and D.A. Landis. 2011. Ecological approaches in protection of the agricultural crops from insect pests in Tajikistan. Proceeding materials of 4<sup>th</sup> International Scientific

Conference of “Ecological Peculiarity of Biological Diversity in the Republic of Tajikistan,” Kulob, Tajikistan, October 20-21. (in press). (in Russian).

### Tanzania

Mtui, H.D., A.P. Maerere, M.D. Kleinhenz, S.A. Miller, M. Erbaugh, and M.A. Bennett. 2008. Effect of seed treatments and mulch on seedborne bacterial pathogens and yield of tomato (*Lycopersicon esculentum* mill.) in Tanzania. Presented by Dr. Matt Kleinhenz at the Annual Meeting of the American Society for Horticultural Science, 21 - 24 July, 2008, Rosen Plaza Hotel, Orlando Florida.

### Uganda

Adipala, E. and G. Bigirwa, 1999. Overview of maize diseases in Uganda. *African Crop Science Conference Proceedings*. Vol: 4

Adipala, E., H.L. Warren, G. Epieru, J.P. Takan, S. Kyamanywa, and H. Willson. 1999. Comparative Performance of cv Igola-1 and Other Local Groundnut Cultivars for the Control of Rosette Disease. In: *Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium*. 15-18 May 1998, Blacksburg, VA, USA.

Adipala, E., H.L. Warren, M. Orawu, S. Kyamanywa, J.P. Takan and M. Erbaugh. 1999. Occurrence and Management of Major Diseases of Cowpeas and Groundnuts in Eastern Uganda. In: *Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium*. 15-18 May 1998, Blacksburg, VA, USA.

Adipala, E., Nampala, P., Biruma, M., Warren, H. and Wilson, H. 2001. Field assessment of cowpea germplasm for disease and pest resistance in Uganda. *African Crop Science Conference Proceedings* 5: 381-393.

Agona, J.A., S. Kyamanywa, E. Adipala, J. Nakkazi, M. Silim-Nahdy and H.R. Willson. 2002. Field management of post-podding pests and bruchids on cowpea using selected botanicals and synthetic insecticides. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 81-87.

Akemo, M.C., C. Ssekyewa, S. Kyamanywa, E. Adipala, H. Willson and M. Erbaugh. 2002. Developing IPM systems for tomato in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 362-368.

Ayiga, J., E. Adipala, G. Bigirwa, G. Asea and R.C. Pratt. 2001. Evaluation of progenies of Vo613Y x Pa405 for resistance to gray leaf spot and other maize diseases in Uganda. In: *Fifth African Crop Science Conference Proceedings*, Oct. 21-26, 2001, Lagos, Nigeria. Vol. 5 pp. 1-10.

Bigirwa, G. 1999. Testing of maize technologies with farmers: IPM CRSP experience. Pages 16-7. In proceedings of a workshop on maize research priorities and experience: Maize streak virus disease within the maize based cropping system. March 2-43, 1999, Jinja, Uganda.

Bigirwa, G., R.C. Pratt, E. Adipala, and P.E. Lipps. 1999. Assessment of gray leaf spot and stem borer incidence and severity on maize in Uganda. *African Crop Science Conference Proc.* Vol. 4: 469-474.

Bonabana-Wabbi, J. and Taylor, D. (2008). Health and Environmental Benefits of Reduced Pesticide Use in Uganda: An Experimental Economics Analysis. Presented at annual meeting of American Agricultural Economics Association and the American Council on Consumer Interests in Orlando Florida, July 27-29, 2008.

Epieru, G., C. Mukankusi, S. Kyamanywa, H. Wilson, G. Luther, H. Warren and E. Adipala. 2001. New pests and diseases of groundnuts in Uganda. *African Crop Science Conference Proceedings* Vol.5.

Epieru, G., S. Kyamanywa, E. Adipala, C. Busolo-Bulafu, P.W. Nalyongo and W.W. Page. 2002. Incidence of groundnut leaf miner in Teso and Lango farming systems. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 307-309.

Erbaugh, J. M. 1996. "Activities of the IPM CRSP in Sub-Saharan Africa". *In: Proceedings of the IPM Networking in Sub-Saharan Africa Workshop*, October 14-16, Addis-Ababa / Nazreth, Ethiopia.

Erbaugh, J. M., Donnermeyer, J., Kyamanywa, S. and Kucel, P. 2008. The Role of Extension in the Assessment Process: Identifying Production Constraints Among Arabica Coffee Producers in Eastern Uganda. Presented at the 25th Annual conference of AIAEE, March 10-15, San Jose, Costa Rica.

Erbaugh, J.M. 1997. Factors associated with the use of pesticides and implications for the development of IPM: A Ugandan case study. *African Crop Science Conf. Proc.* Vol 3. pp. 1453-1463. Pretoria, South Africa, January 1997.

Erbaugh, J.M., C. Igodan, P. Kibwika and S. Kyamanywa, 2001. Factors associated with knowledge of IPM: Implications for targeting IPM Programs. *African Crop Science Conference Proceedings*, October 22-26, 2001, Lagos, Nigeria. Vol. 5, Part 2:699-704.

Erbaugh, J.M., J. Donnermeyer, A. Ekwamu and S. Kyamanywa, (1998) "Farmer Identification of Production Constraints In Uganda: An Assessment of Farmer Participation for Research Agenda Planning." In the Proceedings of the 15<sup>th</sup> International Symposium of the Association for Farming Systems Research and Extension, Volume II, pps 1071-1077, Pretoria, South Africa.

Erbaugh, J.M., J. Donnermeyer, A. Ekwamu and S. Kyamanywa, 1998. "Farmer Identification of Production Constraints in Uganda: An Assessment of Farmer Participation for Research Agenda Planning." In the Proceedings of the 15<sup>th</sup> International Symposium of the Association for Farming Systems Research-Extension, Volume II pps. 1071-1077, Pretoria, South Africa

Erbaugh, J.M., S. Kyamanywa, D.B. Taylor and E. Adipala. 2002. Contributions of farmer participation to IPM research and development: The IPM CRSP experience in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 74-80.

Erbaugh, J.M., S. Kyamanywa, D.B. Taylor and E. Adipala. 2002. Contributions of farmer participation to IPM research and development: The IPM CRSP experience in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 74-80.

Erbaugh, J.M., S. Kyamanywa, G. Epieru, and E. Mwanje. 1999. Farmer knowledge of pest management in Eastern Uganda: A baseline assessment. *African Crop Science Proceedings*, Vol. 4, pp 633-643.

Erbaugh, M. 2004. Lessons from Africa: What Worked, What Didn't, What Will Continue, What Is Needed? In: *Globalizing IPM Through Participatory Research: Lessons from the IPM CRSP*. Proceedings of the IPM CRSP Symposium, Washington, D.C., 5-6 August 2004.

Erbaugh, M., S. Kyamanywa and E. Adipala. 1999. Use of Pesticides by Farmers in Uganda: Strategic Options for Targeting IPM Programs. In: *Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium*. 15-18 May 1998, Blacksburg, VA, USA.

Hakiza, J.J., R. Kakuhenzire, C. Kanzikwera, B. Lemaga, E. Adipala, A. Bhagsari. Germplasm evaluation for tolerance to bacterial wilt in highlands and mid-elevations of Uganda. *African Crop Science Proceedings* Vol. 4.

Kaaya, A. N, H. Warren, E. Adipala, S. Kyamanywa, J. A. Agona & G. Bigirwa. 2001. Mould incidence and mycotoxin contamination of maize and groundnuts in Mayuge and Kumi districts of Uganda. *African Crop Science Proceedings* 5: 507 – 512.

- Kaaya, A.N., H. Warren, E. Adipala, S. Kyamanywa, J. Agona and G. Bigirwa. 2002. Effect of drying methods and storage time on mould incidence, insect damage and aflatoxin levels in maize grains. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 310-314.
- Kakuhenzire, R., J.J. Hakiza, L. Berga, G. Tusiime, F. Alacho and A.S. Bhagsari, 1999. Past, present and future strategies for Integrated Management of potato bacterial wilt disease in Uganda. *African Crop Science Conference Proceedings*, Vol. 4.
- Kalema, F., D. Kabuye, M. Biruma, P. Nampala, J.M. Ssebuliba, H. Warren, H.R. Willson and E. Adipala. 2002. Field evaluation of yield performance and disease resistance of groundnut germplasm in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 428-433.
- Kalule, T., S. Kyamanywa, G. Bigirwa, J. Ogwang, H. Willson, C.O. Omwega and J. Alupo. 2002. Establishment and spread of *Cotesia flavipes* (Hymenoptera: Braconidae) a parasitoid of *Chilo partellus* (Lepidoptera: Crambidae) in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 318-321.
- Kalule, T., S. Kyamanywa, G. Bigirwa, J. Ogwang, H. Willson, C.O. Omwega and J. Alupo. 2002. Establishment and spread of *Cotesia flavipes* (Hymenoptera: Braconidae) a parasitoid of *Chilo partellus* (Lepidoptera: Crambidae) in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 318-321.
- Kamenya, S.N., G.J. Hakiza, G. Tusiime, B.B. McSpadden Gardener and R. Edema. (2006). The potential of Ugandan isolates of fluorescent *Pseudomonads* for control of *Fusarium* wilt of coffee and Pythium bean root rot. *African Crop Science Conference, Proceedings*, Vol. 7. pp. 1257-1265.
- Kamenya, S.N., G.J. Hakiza, G. Tusiime, B.B. McSpadden Gardener and R. Edema. 2006. The potential of Ugandan isolates of fluorescent *Pseudomonads* for control of *Fusarium* wilt of coffee and Pythium bean root rot. *African Crop Science Conference, Proceedings*, Vol. 7. pp. 1257-1265.
- Kangire, A., D. Kyetere, G. Hakiza, H. Warren, M. Erbaugh and C. Kabole. 2002. Determination of alternate hosts for *Fusarium xylarioides*, the causal agent of coffee wilt disease (CWD) in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 35-38.
- Kangire, A., D. Kyetere, M. Erbaugh, S. Miller, I. Melanie, D. Geiser and C. Kabole (2005). *Fusarium xylarioides* is a specific pathogen that causes Coffee Wilt Disease (CWD) on robusta coffee in Uganda. *African Crop Science Conference, Proceedings*, Vol. 7. (in press).
- Kasenge, V., M.C. Akemo, D.B. Taylor, S. Kyamanywa, E. Adipala and B. Mugonola. 2002. Economics of fresh market tomato production by peri-urban farmers in Wakiso District. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 301-306.
- Kyamanywa, S. 1998. Studies on stalk borers of maize in Uganda and their implication in development of integrated management programs for the pests. In: *Progress in IPM CRSP Research: Proceedings of the Second IPM CRSP Symposium*. 16-20 May 1997, Guatemala City, Guatemala.
- Kyamanywa, S., Byabagambi S., Ogenga-Latigo and H. Willson (1999). Effect of Fertilizer Application and Mulching on Bean Infestation and Damage by Bean fly (*Ophiomyia* sp.). in *proceedings of the Fourth African Crop Science Conference: Casablanca, Morocco 11<sup>th</sup>-14<sup>th</sup> October, 1999*.
- Kyamanywa, S., H. Willson, F. Opio and M. Erbaugh. 2002. Influence of seed dressing and earthing-up on bean fly damage and bean root rots under farmers' management conditions. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 342-346.
- Kyamanywa, S., H. Willson, F. Opio, and M. Erbaugh. 1999. The Effect of Seed Dressing and Earthing-Up on Bean Fly (*Ophiomyia* sp.) and Other Pests of Beans. In: *Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium*. 15-18 May 1998, Blacksburg, VA, USA.

## Publications/Products List

- Melanie, L., L. Ivey, G. Hakiza, S.A. Miller and D.M. Geiser. 2002. Strain characterization and diversity of the *Fusarium* coffee wilt pathogen in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 101-103.
- Mugonola, B., V. Kasenge, W. Ekere, S. Kyamanywa, E. Adipala, J. Nabirye, D.B. Taylor, A. Agona and M. Erbaugh. 2002. An economic evaluation of IPM technologies in the control of cowpea pests. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 88-93.
- Mukasa, S.B., Amayo, R., Karungi, J., and Kyamanywa, S. Prevalence and relative importance of viruses on hot pepper in central Uganda. Paper to be presented at the International IPM symposium, March 24-26, 2009 at the Portland, Oregon.
- Munyuli, T.M.B., S. Kyamanywa, G.C. Luther and R. Hammond. 2002. Effects of cowpea cropping systems and insecticides on the abundance and diversity of indigenous predator and parasitoid arthropods in eastern Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 412-419.
- Munyuli, T.M.B., S. Kyamanywa, G.C. Luther and R. Hammond. 2002. Effects of groundnut cropping systems and insecticide applications on the abundance of native predator and parasitoid arthropods. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 420-427.
- Ochwo, M.K.N., E. Adipala, J. Mukalazi, P. Kankwatsa, S. Namanda, J.J. Hakiza and M. Olanya. 2002. Integrated management of late blight: the Ugandan experience. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 291-296.
- Olanya, M.O., R. El-Bedewy, E. Adipala, J.J. Hakiza, S. Namanda, R. Kakuhenzire, W. Wagoire, T. Angiyah, J. Karinga, P. Ewell and C. Lung'aho. 2001. Estimation of yield loss attributed to late blight and the impact of environmental factors on late blight severity in Kenya and Uganda. *African Crop Science Conference Proceedings*, Vol. 5:455-460.
- Olupot, J.R., D.S.O. Osiru, J. Oryokot, and B. Gebrekidan. 1999. Development of an integrated *Striga* management strategy for Ugandan conditions. In Chivenge, O.A., Tusiime, G., Nampala, P., and Adipala, E., (eds.) 1999. *17<sup>th</sup> East African Biennial Weed Science Conference Proceedings*. Harare: WSSEA. pp 131-136.
- Olupot, J.R., D.S.O. Osiru, J. Oryokot, and B. Gebrekidan. 1999. Development of an Integrated *Striga* Management Strategy for Ugandan Conditions. In: Chivenge, O.E., Tusiime, G., Nampala, P. and Adipala, E. 1999. Proceedings of the 17<sup>th</sup> Biennial Weed Science Society Conference for Eastern Africa, pp. 131-136. Harare, Zimbabwe, WSSEA. 27-29 September 1999. ISSN 1028-8791 143pp.
- Olupot, J.R., D.S.O. Osiru, J. Oryokot and B. Gebrekidan. 2002. The capacity of *Celosia argentic* (*Striga* 'chaser') to control *Striga* on sorghum in Uganda. In: Tenywa, J.S., Nampala, M.P., Tusiime, G. and Osiru, M. (eds.), *Proceedings of the 5<sup>th</sup> African Crop Science Society Conference*. Lagos, Nigeria.
- Olupot, J.R., J. Oryokot, D.S.O. Osiru and B. Gebrekidan. 2002. The effectiveness of inter-cropping silver leaf desmodium with sorghum for *Striga* management in Uganda. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 230-232.
- Oryokot, J. and B. Gebrekidan. 1999. An Integrated *Striga* Management Strategy for Ugandan Sorghum Farmers. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.
- Wasukira, A., G.J. Hakiza, E. Adipala, D.T. Kyetere, M. Erbaugh, I. Deep, H. Warren and S. Olal. 2002. Establishment of the development of *Fusarium xylarioides* in coffee tissues. *IPM Conference Proceedings*, Kampala, Uganda, 8-12 Sept 2002. pp. 397-399.

Willson, H., S. Kyamanywa, T. Kalule, G. Birgirwa, and T. Kauma. 1999. Management of Maize Stalk Borer in Uganda. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

### Uzbekistan

Pulatov A., B.A.Tashpulatova and M.I. Rashidov. 2008. Study the possibility for introduction and application in Uzbekistan predator mites of Phytoseiidae family, Proceedings of Republic scientific-applied conference of young scientists "Modern technologies of ecologically safe production" Devoted to Youth Year, Tashkent, Uzbeistan pp.54-57. (in Russian)

Tashpulatova B.A. 2009. Mass production and application of *Amblyseius* species predator mites in Uzbekistan. Proceedings of Republic scientific-applied conference of farmers, Tashkent, Uzbekistan April 6-7, 2009. (in Russian)

Tashpulatova, B., and F. Zalom. 2008. Studies of the predaceous mites *Amblyseius cucumeris* and *Amblyseius mckenziei* (Acari:Phytoseiidae) in Uzbekistan. International scientific-applied conference "Application of methods of biological control in agriculture". Tashkent, Uzbekistan November 25-26, pp. 38-40 (English)

Tashpulatova, B.A. 2010. Mass production and application of *Amblyseius* species predator mites in Uzbekistan. Proceedings of Republic scientific-applied conference of farmers Tashkent- No 3. (Russian).

## 8. IPM CRSP WORKING PAPERS SERIES

### General / Other

Russ, A., R. Balakrishnan, and Z. Kruja. 1996. Partial bibliography of research, gender, and socioeconomic characteristics of agricultural production in Mali and the West African sahel and the Philippines. IPM CRSP Working Paper 96-1. Office of International Research and Development, Virginia Tech, Blacksburg, VA. 29 pp.

Seitz, V., T. Chew. 1996. Annotated Bibliographies of Socioeconomic Literature for: Guatemala Jamaica. IPM CRSP Working Paper 96-3. IPM CRSP, Office of International Research and Development, Virginia Tech University, Blacksburg, VA 24061-0334.

### Albania

Daku L., G.W. Norton, D.G. Pfeiffer, G.C. Luther, C.W. Pitts, D.B. Taylor, J.Tedeschini, and R. Uka. 2000. Farmers' Knowledge and Attitudes Towards Pesticide Use and Olive Pest Management Practices in Vlora, Albania: A Baseline Survey.

IPM CRSP Working Paper 2000-1. January 2000. 173p. . IPM CRSP, Office of International Research and Development, Virginia Tech, Blacksburg, VA 24061-0334.

Luther, G.C., K.M. Moore, C. Pitts, L. Daku, J. Tedeschini, E. Isufi, F. Thomaj, R. Uka, H. Ismaili, B. Teviotdale, D. Pfeiffer, M. Bregasi, H. Bace, M. Baci, M. McGiffen, L. Ferguson, M. Hasani, D. Toti, B. Stamo, Z. Veshi and U. Abazi. 1999. Participatory Appraisal of Olive Pest Management in Albania to Initiate IPM CRSP Activities in Eastern Europe. IPM CRSP Working Paper 99-2. IPM CRSP, Office of International Research and Development, Virginia Tech, Blacksburg, VA 24061-0334.

### Bangladesh

Hossain, Md. I. and G. Shively. 2000. Crop production and pest management practices on rice and vegetable fields in Bangladesh. IPM CRSP Working Paper No. 2000-4.

Hossain, Md. I., G. Shively, C. Mahmoud. 2000. Pesticide expenditures in a rice-vegetable farming system: evidence from low-income farms in Bangladesh. IPM CRSP Working Paper No. 2000-5.

### Ecuador

Barrera, V. and G.W. Norton. 1999. Farmer Practices for Managing the Principal Potato Pests in the Province of Carchi, Ecuador: Results of a Baseline Survey and Participatory Appraisal. IPM CRSP Working Paper 99-1. IPM CRSP, Office of International Research and Development, Virginia Tech, Blacksburg, VA 24061-0334.

### Guatemala

Dix, A.M. and C.R. Carroll. 1995. IPM in non-traditional export agriculture in Guatemala: the case of Chilasco, Baja Verapaz, Guatemala. IPM CRSP Working Paper 95-4, IPM CRSP, Office of International Research and Development, Virginia Tech University, Blacksburg, VA 24061-0334.

Dix, A.M., C.R. Carroll, M.W. Dix and G. Dal Bosco. 1995. Corn stalks influence patchy distribution of white grubs in broccoli fields. IPM CRSP Working Paper 95-5, IPM CRSP, Office of International Research and Development, Virginia Tech University, Blacksburg, VA 24061-0334.

## Publications/Products List

Hamilton, S., L. Asturias de Barrios, and G. Sullivan. 2002. Nontraditional agricultural export Production on small farms in highland Guatemala: Long-term socioeconomic and environmental impacts. IPM CRSP Working Paper 02-1 (May 2002). Blacksburg, VA: IPM CRSP, Virginia Tech.

Hamilton, S., G. Sullivan, and L. Asturias de Barrios. 2001. Economic and social impacts of non-traditional export crop production in highland Guatemala: Impact perceptions Survey. IPM CRSP Working Paper 01-3. Blacksburg, VA: IPM CRSP, Virginia Tech.

Hamilton, S., L. Asturias, and B. Tevalán. 2001. Gender and Agricultural Commercialization in Ecuador and Guatemala. IPM CRSP Working Paper 2001-1. IPM CRSP, Office of International Research and Development, Virginia Tech.

Julian, J.W., G.H. Sullivan and S.C. Weller. 1997. Assessment of Potential Impacts from the elimination of methyl bromide in fruit and vegetable trade. IPM CRSP Working Paper 97-2. IPM CRSP, Office of International Research and Development, Virginia Tech University, Blacksburg, VA 24061-0334.

### **Mali**

Amirault, J. and J. Caldwell. 1995. Annotated Bibliography of the Available Articles on the Enemies of Sorghum, Millet, and Cowpea and on Integrated Control Methods in the Sahelian Zone (English and French). IPM CRSP Working Paper 95-7. IPM CRSP, Office of International Research and Development, Virginia Tech University, Blacksburg, VA 24061-0334.

Erbaugh, J.M., J.S. Caldwell, M. Fofana, B. Dembélé, M.D. Diakitè, O. Camara, and H.T. Sissoko. 1996. Farmer evaluation of integrated pest management on-farm research. IPM CRSP Working Paper 96-5. Office of International Research and Development, Virginia Tech, Blacksburg, VA. 28pp.

Jenkins, D.A. and F.V. Dunkel. 1997. Storage of neem kernel extract: Differential effects of temperature on oviposition deterrence and larval toxicity. IPM CRSP Working Paper 97-1. Office of International Research and Development, Virginia Tech, Blacksburg, VA. 20 pp.

### **Philippines**

Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S. R. Obien, S.K. DeDatta. 1998. Major Weeds in Rainfed Rice-Onion Cropping Systems in the Asian Site in the Philippines. IPM CRSP Working Paper 98-1, IPM CRSP, Office of International Research and Development, Virginia Tech University, Blacksburg, VA 24061-0334.

Cuyno, L., G.W. Norton, and A. Rola. 2000. Economic Analysis of Environmental Benefits of Integrated Pest Management: A Philippine Case Study. IPM CRSP Working Paper 00-2, Virginia Tech, Blacksburg, Virginia, May 2000, 17p.

Lazaro, K.L., K.L. Heong, B. Canapi, V. Gapud, and G.W. Norton, "Farmers' Pest Management Knowledge, Attitudes and Practices In San Jose, Philippines: A Baseline Survey", IPM CRSP Working Paper 95-2, September 1995, 118p.

Litsinger, J., G.W. Norton, and V.P. Gapud, "Participatory Appraisal for IPM Research Planning in the Philippines", IPM CRSP Working Paper 95-1, September 1995, 128p.

Tjornhom, J.D. and G.W. Norton. "Impacts of Price and Exchange Rate Policies on Pesticide Use in the Philippines", Working Paper 96-4, August 1996, 24p.

Tjornhom, J.D., G.W. Norton, K.L. Heong, N.S. Talekar, and V. P. Gapud. "Socioeconomic Characteristics of Pesticide Misuse in Philippine Vegetable Production", IPM CRSP Working Paper 96-2, March 1996, 15p.



## Publications/Products List

Tjornhom, J.D., V. Gapud, B. Canapi, F. Serrano, and G.W. Norton, "Farmers' Socio-economic Characteristics and Attitudes Relevant to Pest Management in San Jose, Philippines: A follow-up Baseline Survey", IPM CRSP Working Paper 95-3, October 1995, 22p.

### Tanzania

Magina, F. L., R. H. Makundi, A. P. Maerere, G. P. Maro, and J. M. Teri. Temporal variations in the abundance of three important insect pests of coffee in Kilimanjaro region, Tanzania.

Mtui, H. D., A. P. Maerere, M. A. Bennett, and K. P. Sibuga. Effect of mulch and different fungicide spray regimes on yield and yield components of tomato (*Solanum lycopersicum L.*) in Tanzania.

### Uganda

Asiimwe, D., P. R. Rubaihayo, G. Tusiime, S. Kyamanywa, and M. Erbaugh. 2011. Release of tomato variety 'Kamato1' resistant to bacterial wilt in Uganda.

Asiimwe, D., P. R. Rubaihayo, G. Tusiime, S. Kyamanywa, and M. Erbaugh. Multi-location verification of tomato variety 'MT56' for resistance to Bacterial Wilt (*Ralstonia solanacearum*) in Uganda.

Erbaugh, J.M., D. Taylor, S. Kyamanywa, P. Kibwika, V. Odeke and E. Mwanje. 2001. Baseline II: A Follow-up Survey of Farmer Pest Management Practices and IPM Knowledge Diffusion. IPM CRSP Working Paper 01-2. OIRD, Virginia Tech., Blacksburg, VA.

Erbaugh, J.M., H. Willson, and S. Kyamanywa. 1995. Participatory appraisal Iganga and Kumi Districts, Uganda, July 1995. IPM CRSP Working Paper 95-6. Office of International Research and Development, Virginia Tech, Blacksburg, VA. 59 pp.

Kasenge, V., D.B. Taylor, S. Kyamanywa, G. Bigirwa, and J. M. Erbaugh. 2000. Farm-Level Evaluation of Monocropping and Intercropping Impacts on Maize Yields and Returns in Iganga District. IPM CRSP Working Paper 00-3, October, 2000. Virginia Tech, Blacksburg, Va.

Namaala, J. 2011. Tolerance levels of imported tomato varieties to insect pests and diseases affecting tomato in Uganda. Special Project Report, Makerere University.

## 9. WORLD WIDE WEB SITES AND DOCUMENTS

### **General / Other**

Amirault, J.P. and M. Rich. 1997ff. Africa IPM Link Homepage. <http://www.cals.vt.edu/ail/index.html>

Amirault, J.P., M. Rich, F.W. Ravlin and E.A. Roberts. 1996ff. IPM CRSP Homepage. <http://www.cals.vt.edu/ipmcrsp/index.html>

Crosslin, J.M., Munyaneza, J.E., Brown, J.K., and Liefting, L.W. 2010. A history in the making: potato zebra chip disease associated with a new psyllid-borne bacterium – a tale of striped potatoes. APSNet January Feature: (<http://www.apsnet.org/online/feature/zebra/>).

Miller, S., International Plant Diagnostics Network: IPDN website: <http://www.intpdn.org/>

Moldova (<http://www.virginiafruit.ento.vt.edu/Albania/MoldovaIndex.html>)

Pfeiffer, D. G. 2008. Eastern European Regional Program for Integrated Pest Management Collaborative Research Support Program. Public access web site (<http://www.virginiafruit.ento.vt.edu/Albania/EasternEuropeIndex.html>)

Pfeiffer, D. G. 2008. Scholar Site “IPM CRSP Eastern Europe”. A password-protected, on-line site for communication and file sharing among US and host country participants. (<http://scholar.vt.edu>)

Ukraine (<http://www.virginiafruit.ento.vt.edu/Albania/UkraineIndex.html>)

### **Central Asia**

In January 2009, through the support of Ms. Joy Landis, IPM communications manager at MSU, the Project established a new web site featuring its work and collaborators. The address of the web site is: <http://ipm.msu.edu/central-asia.htm>. The site features a description of each project component, reports and publications, photos and blog entries along with an IPM directory of IPM specialists and stakeholders in Central Asia.

Joy Landis also established a blog documenting the team’s travel and meetings in Central Asia during spring 2009: <http://www.ipmglobal.blogspot.com/>. The blog is intended to help the general public understand how American science (specifically in IPM) can be leveraged to help raise the standard of living and improve the environment in countries like those in Central Asia. The blog features collaborations between the people of the region and the U.S. based project team. The blog has received over 425 visits from 293 visitors with more than 700 page views since June 1, 2009. The blog will be continued during the next phase of the Central Asia project and will be positioned to send traffic to the web site.

### **Albania**

Albania (<http://www.virginiafruit.ento.vt.edu/Albania/AlbaniaIndex.html>)

Pfeiffer, D.G. Albania Site for Integrated Pest Management Collaborative Research Support Program. <http://everest.ento.vt.edu/Fruitfiles/Albania/Albindex.html>

### **Jamaica**

Grossman, L. Has posted all his GIS tutorials on the World Wide Web at: <http://www.majbill.vt.edu/geog/3104/Jamaica/J-arc1.htm>

Ravlin, F.W. and E.A. Roberts. 1996. Information Systems Workshop. [http://ipm\\_www.ento.vt.edu:8000/crsp/workshops/info\\_systems/titlepg.html](http://ipm_www.ento.vt.edu:8000/crsp/workshops/info_systems/titlepg.html)

## Publications/Products List

Roberts, A. is developing a WWW site on the GIS workshop activities (Research Enhancement through Participatory Activities: Information Systems for Collaborative Research.)

### **Uganda**

Taylor, D., VT, Uganda Site for Integrated Pest Management Collaborative research Support Program.  
**<http://www.aaec.vt.edu/ipmcerspuganda/IPMCRSPEA>**

## 10. GERMPLASM RELEASES

### Jamaica

Bohac, J. R., D. M. Jackson, J. D. Mueller, P. D. Dukes, and J. M. Schalk. 2000. Notice of release of 'Patriot', an insect-resistant, copper-rose skinned, orange-fleshed sweetpotato cultivar. U. S. Department of Agriculture and South Carolina Agricultural Experiment Station. USDA, ARS, Washington, DC, Dec. 19, 2000.

Kays, S.J., W.J. McLaurin, Y.Wang, J.R. Bohac, P.D. Dukes, and D.M. Jackson. 2000. Notice of release of GA90-16 sweetpotato breeding line. Georgia Agricultural Experiment Station and U. S. Department of Agriculture. USDA, ARS, Washington, DC, June 28, 2000.

U. S. Department of Agriculture and Clemson University. 1997. Notice of release of sweetpotato breeding line W-274. USDA, ARS, Washington, D. C., and Clemson University, Clemson, SC. March 24, 1997. (Breeding line developed by J. R. Bohac et al.)

U. S. Department of Agriculture and South Carolina Agricultural Experiment Station. 1999. Notice of release of 'Ruddy' multiple pest resistant, red-skinned, orange-fleshed sweetpotato. USDA, ARS, Washington, DC, June 28, 1999. (Cultivar developed by J.R. Bohac, P.D. Dukes, J.D. Mueller, and D. M. Jackson).

U. S. Department of Agriculture. 1997. Notice of release of >Carolina Wonder= southern root-knot nematode resistant bell pepper. USDA, ARS, Washington, D.C. 20250. April 28, 1997. (Cultivar developed by R. L. Fery, P. D. Dukes, and J. A. Thies)

U. S. Department of Agriculture. 1997. Notice of release of >Charleston Belle= southern root-knot nematode resistant bell pepper. USDA, ARS, Washington, D.C. 20250. April 28, 1997. (Cultivar developed by R. L. Fery, P. D. Dukes, and J. A. Thies)

U. S. Department of Agriculture. 1997. Notice of release of PA-353, PA-398, and PA-426 southern root-knot nematode resistant *Capsicum chinense* germplasm lines. USDA, ARS, Washington, D.C. 20250. April 21, 1997. (Germplasm lines selected by R. L. Fery and J. A. Thies)

## 11. PAPERS/SEMINARS PRESENTED

### General/Global

Alabi, O. J., M. Al Rwahnih, G. Karthikeyan, S. Poojari, M.F. Fuchs, A. Rowhani, and R. A. Naidu. 2011. *Grapevine leafroll-associated virus 1* occurs as genetically diverse populations in wine grape cultivars. Paper presented during the the Joint Meeting of American.

Alwang, J. 2006. Cost-effectiveness of Alternative IPM Technology Transfer Methods, Presentation to the 5<sup>th</sup> Annual National IPM Symposium, St. Louis.

Alwang, J., A. Baltazar, L. Calderon, D. Clarke-Harris, S. De Datta, M. Erbaugh, S. Fleischer, K. Gamby, C. Harris, E. Heinrichs, M. Irwin, R. Karim, S. Kyamanywa, S. Miller, S. Mohankumar, K. Moore, B. Moser, G. Norton, D. Pfeiffer, E. Rajotte, C. Suarez, S. Tolin, S. Weller. Globalizing IPM through Participatory Research: Lessons from the IPM CRSP. (Collection of presentations from the IPM CRSP Symposium.) Washington, D.C., 5-6 August 2004.

Alwang, J., S. Miller, S. Tolin, M.E. Christie, M. Chaudhary, and A. Rauf. Capacity building and short term training: Requirements for successful technology transfer for IPM. 2012. 27<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Amata, R.L., J. Otipa, M. Waiganjo, L. Wasilwa. Management of dieback diseases of passion fruit. Paper accepted for presentation at In the 2<sup>nd</sup> All Africa horticultural congress in South Africa on 15-20<sup>th</sup> January 2012. Paper already accepted as an oral presentation.

Baysal, F., A. Dorrance, M. L. Lewis Ivey, D. Luster, R. Frederick, J. Czarnecki, M. Boehm and S. A. Miller. 2007. An immunofluorescence assay to detect soybean rust urediniospores. Joint Annual Meeting of the American Phytopathological Society/ Society of Nematologists, San Diego, CA, July 28 - August 1, 2007

Bennett M. Sokoine University of Agriculture. Vegetable Seed Production. (38 people with 14 females).

Bowman, J., A. Rauf, H. Rapusas, J. Alwang, E. Rajatte, Y. Mian, F. Zalom, D. Dinakaran, S. Mohan Kumar, G. Karthikeyan, C. Durairaj, S. Ramakrishnan, E.I. Jonathan, R. Samiyappan, and V. Jayabal. 2012. Development of IPM packages for vegetable crops in developing countries. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Díaz, F. J. Technology transfer of the use of soil solarization techniques for management of soil-borne pests in vegetable crops. Two (2) separate presentations were made to report the results of the trial at LAE-FHIA (Intibucá) and at CEDEH-FHIA (Comayagua).

Doohan D. 2006. Sokoine University of Agriculture. Sustainable Weed Management (65 people 21 females)

Erbaugh, J.M. 2007. IPM CRSP East Africa Research Site Progress Report. Presented at the Annual Meeting of the IPM CRSP, Blacksburg, Virginia. May 2007.

Gajendran, G., D. Dinakaran, S. Mohankumar, G. Karthikeyan, and V. Jayabal. 2011. Evaluation and popularization of integrated pest management module in onion. Paper presented during the Joint Meeting of American Phytopathological Society and International Association of Plant Protection, Honolulu, Hawaii, August 6-10.

Gallegos, P., J. Ochoa and Students. 2006. IPM for pest and disease control in naranjilla. Use of resistant rootstocks. Farmers and students.

Hamilton, S. 2006. Globalizing IPM: Participatory Research and Technology Transfer. Presented at the 5<sup>th</sup> National IPM Symposium, St. Louis, MO, Approximately 60-75 people attended the workshop.

## Publications/Products List

Hamilton, S. 2006. Linking Participatory IPM Research and Technology Transfer: A Gender Analysis Platform. Paper presented at the workshop "Globalizing IPM: Participatory Research and Technology Transfer, 5<sup>th</sup> National IPM Symposium, St. Louis, MO, April 4, 2006.

Karthikeyan, Gandhi, V. Pandian, S. K. Manoranjitham, G. Chandrasekar, R. Samiyappan, E. I. Jonathan and R.A. Naidu. 2011. Studies on *Peanut bud necrosis virus* affecting tomato in India. Paper presented during the Joint Meeting of American Phytopathological Society and International Association of Plant Protection, Honolulu, Hawaii, August 6-10.

Lewis Ivey, M. L., G. Tusiime, M. Mwangi and S.A. Miller. 2007. Development of a PCR assay for the detection of *Xanthomonas campestris* pv. *musacearum* in bananas. Joint Annual Meeting of the American Phytopathological Society/ Society of Nematologists, San Diego, CA, July 28 - August 1, 2007.

Luther, G.C. 2006. Integrated pest management technology transfer and adoption. Invited oral presentation at the 5<sup>th</sup> National IPM Symposium, 4-6 April 2006, St. Louis, USA.

Maredia, K. and D. Baributsa. USAID IPM-CRSP Regional Integrated Pest Management Centers, 5<sup>th</sup> National IPM Symposium. St. Louis, Missouri. April 6, 2006.

McDonald, S. and Tolin, S. 2005. *Uroleucon ambrosiae* and *Aphis nerii*: New vectors of Tobacco etch virus. Paper presented at the Annual Meeting of the Entomological Society of America, Fort Lauderdale, Florida, Dec. 15 – 18, 2005.

Norton G. W. 2005. Global Theme: Impact Assessment for the IPM CRSP," Technical Committee meeting, Blacksburg, VA, 30 participants

Norton, G., W. Secor, L. Harris, and A. Buckmaster. 2012. Economics of IPM: Impact assessment, natural enemies, diffusion, and marketing. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Norton, G.W. 2006. Applying a matrix framework to evaluate income, poverty, and environmental impacts of Agricultural R&D. Presented at the 26<sup>th</sup> Conference of the International Association of Agricultural Economists, Gold Coast, Australia, August 13, 2006, 50 participants.

Norton, G.W. 2006. Assessing the impact of agricultural research: scope, Current Practice, Gaps, and Options. Presented at the 26<sup>th</sup> Conference of the International Association of Agricultural Economists, Gold Coast, Australia, August 14, 2006, 40 participants.

Norton, G.W. 2006. Environmental benefits of IPM: Evidence from at home and abroad. Presented at the 5<sup>th</sup> National IPM Symposium, St Louis MO. 100 participants.

Norton, G.W. 2006. Evaluating the health, environmental, and socioeconomic impacts of IPM. Presented at the 5<sup>th</sup> National IPM Symposium, St Louis MO, 40 participants.

Norton, G.W. 2006. Impact assessment on the IPM CRSP. Presented at a meeting at USAID, Washington, DC, 30 participants.

Norton, G.W. 2006. Impact assessment on the new IPM CRSP. Presented at the 5<sup>th</sup> National IPM Symposium, St Louis MO, 40 participants.

Norton, G.W. 2006. Impact assessment on the New IPM CRSP. Presented at the IPM CRSP Board Meeting, June 15, Blacksburg, VA, 12 participants.

Norton, G.W. 2006. Introduction: Is IPM Delivering? Economic Evidence from the U.S. and Abroad, presented at the 5<sup>th</sup> National IPM Symposium, St Louis MO, April 4, 100 participants.

## Publications/Products List

Norton, G.W. 2006. Is IPM delivering on the promise: Introduction. Presentation to the 5<sup>th</sup> Annual National IPM Symposium, St. Louis.

Ochoa, J. and P. Gallegos. 2006. Interactive technical meeting with professional related to naranjilla cultivation. Technical assistants, producers, students and journalists.

Ochoa, J. and P. Gallegos. 2007. Open day (Tandapi) to show objectives and aims of the project. Farmers.

Pfeiffer, D. G. 2008. IPM CRSP and challenges facing apple production. L'viv Oblast Apple Growers Symposium. Mostsy'ka. 6 Aug.

Pfeiffer, D. G. and S. A. Miller. 2008. Status of IPM CRSP research in Eastern Europe in Year 3. Manila, Philippines. May 18.

Poojari, S., O. J. Alabi, G. Karthikeyan, S. K. Manoranjitham, T. A. Damayanti, S. H. Hidayat and R. A. Naidu. 2011. Molecular diversity of viruses in vegetable crops from farmers fields in South and Southeast Asia. Paper presented during the Joint Meeting of American Phytopathological Society and International Association of Plant Protection at Honolulu, Hawaii, August 6-10.

Rao, S., G. Carner, M. Shepard, S. Scott, M. Shapiro, D. Lynn, J. Becnel, and P. Mertens. 2006. Cypovirus identification by determining genome profiles with agarose gel electrophoresis: Correlation with sequence data. Annual Meeting of the South Carolina Entomological Society, McCormick, SC October 19, 20, 2006.

Rayapati, N., and S. Tolin. 2012. Are ecologically-based IPM strategies relevant for sustainable management of virus diseases in the 21st century? 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Roca, M. M., Brown, J., Maxwell, D., Aguilar, E., Flores, E., Rueda, A., Rivera, M., Jones, P., Ford, S., and Munford, R. 2006. Presence of viruses and fitoplasmas in tomato and other horticultural crops in Honduras, Nicaragua, El Salvador and Guatemala. Presented at the American Phytopathological Society Caribbean Division meeting, Cartagena, Colombia, September 2006.

Samiyappan, R., E. I. Jonathan, S. Mohankumar, T. Raguchander, and G. Karthikeyan. 2011. PGPR mediated IPM for tropical vegetables in South India. Paper presented during the Joint Meeting of American Phytopathological Society and International Association of Plant Protection at Honolulu, Hawaii, August 6-10.

Shepard, B. M., 2006. Justifying international research to domestic stakeholders. Presented to the National Integrated Pest Management Conference. St. Louis, MO. April, 2006.

Suarez, C., D. Vera, W. Cornejo, S. Solorzano and R. Parrales. 2007. Workshop to discuss advances on the implementation of IPM practices in plantain and cocoa: Training facilitators of Quevedo in the use of plantain capacitating modules.

Tolin, S. A. 2006. Insect transmitted viruses: A Global Theme in the new IPM CRSP. A seminar presented at IDIAF in Santo Domingo, Dominican Republic, May 30, 2006, to collaborators and tomato industry representatives.

Tolin, S. A. 2006. Insect transmitted viruses. Presented in the Workshop "Implementing Ecologically-Based Participatory IPM in a Global Context: The New IPM CRSP", at the 5<sup>th</sup> National IPM Symposium, St. Louis, MO, April 4-6, 2006.

Tolin, S. A. 2007. Management of vector-borne viruses in plants. Presentation to the Workshop sponsored by the IPM-CRSP Global Theme on Diagnostics - IPDN. Wooster, Ohio.

## Publications/Products List

Vaughan, L., B. Kemo, A. Niassy, D. Kpindou, and S. Jaronski. 2008. Efficacy of Low-dose applications of a biopesticide for grasshopper control in W. African grasslands. IPM CRSP Workshop Abstract of Posters. IPM CRSP Conference, Manila.

Vera, D. and G. Jacome. 2006. Exchanging experiences on plantain farmer to farmers, La Virginia, Quevedo

Vera, D. and G. Jacome. 2006. Exchanging experiences on plantain and farmer organization, San Ramon del Tigrillo, El Carmen

Wood, S. 2006. The matrix revisited: Improving IA results, relevance, organization, and reporting. Presented at the 26th Conference of the International Association of Agricultural Economists, Gold Coast, Australia, August 13, 2006, 50 participants.

Xia, Y. 2006. IPM CRSP IT and Database Global Theme. IPM Symposium

Xia, Y. 2006. IPM Databases in global base. CIPM Semiannual Meeting

Xia, Y. 2006. Outlines of IPM CRSP IT and Database Global Theme. USDA South Regional IPM Center Meeting.

Xia, Y., et al. 2007 Applications of Information Technology in IPM. pp 209 - 225. *in* General Concepts in Integrated Pest and Disease Management. Published by Springer

Xia, Y., et al. 2007. Pest Management Databases for the Developing World. Proceedings of 2007 IPPC Annual Meeting. Glasgow, UK.

Xia, Y., et al. 2007. Preliminary implementations of information technology in IPM. Proceedings of Central Asia IPM Forum. Dushanbe, Tajikistan, May, 2007

### **Africa**

Rajeshkumar, J., and K.R.M. Bhan. 2012. Semiochemicals in IPM and semiochemical technology in IPM systems in developing countries: IPM CRSP in South ASIA, West and East Africa. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Strathie, L., A. McConnachie and M. Negeri. 2007. A cooperative approach to management of *Parthenium hysterophorus* in Africa. XIIth International Symposium on Biological Control of Weeds, Montpellier, France, 22-27 April 2007.

Strathie, L. and A. McConnachie. 2006. Biological control and management of *Parthenium hysterophorus* in Africa. Parthenium Working Group Meeting, Kruger National Park, 20-21 November 2006.

### **East Africa**

Kyamanywa, S. 2006 IPM Packages for cowpea in East Africa. Presented at the 5<sup>th</sup> National Integrated Pest Management Symposium, Delivering on a Promise, St.Louis, Missouri, April 4-6, 2006.

### **South Africa**

McConnachie, A. 2006. Distribution and potential spread of parthenium in South Africa and Swaziland. IPM CRSP Parthenium Project Partners Workshop, Bahir Dar, Ethiopia, 5-6 October 2006.



## Publications/Products List

McConnachie, A. and L. Strathie. 2006. Demoina weed: Potential spread and current distribution in Swaziland and South Africa. Parthenium Working Group Meeting, Kruger National Park, 20-21 November 2006.

McConnachie, A., L. Strathie, K. Ntushelo and J. Goodall. 2007. Control of *Parthenium hysterophorus* (Asteraceae) in conservation areas in South Africa. Southern African Wildlife Management Association Symposium, 18-21 September 2007, Didima Camp - uKhahlamba-Drakensberg Park.

Strathie, L. 2006. Biological control of *Parthenium hysterophorus* in South Africa. IPM CRSP Parthenium Project Partners Workshop, Bahir Dar, Ethiopia, 5-6 October 2006.

### **Sub-Saharan Africa**

Miller, S. A. 2007. Plant disease diagnostics in Sub-Saharan Africa - Pathologist's Perspective" International. Bellagio Conference (Rockefeller Foundation/Bill and Melinda Gates Foundation) - Developing a Roadmap for Plant Disease Diagnostics in Sub-Saharan Africa. Bellagio, Italy, April 9, 2007.

### **West Africa**

Gilbertson, R., L. Vaughan and A. Diarra. 2006. Links to other IPM-CRSP projects including West African Consortium of IPM Excellence. International Plant Diagnostic Network (IPDN) West Africa: Stakeholder Meeting and Training Workshop, Cotonou, Benin, September 5-8, 2006.

Norton, G.W. 2006. Overview of IPM CRSP/ASBPII Impact studies in West Africa, presented at INSAH, Bamako, Mali, 20 participants.

Reeder, R. 2006. New diseases from everywhere. International Plant Diagnostic Network (IPDN) West Africa: Stakeholder Meeting and Training Workshop, Cotonou, Benin, September 5-8, 2006.

Vergot, P. 2006. IPDN data and communication network: topics for outreach training methods including web demonstration. International Plant Diagnostic Network (IPDN) West Africa: Stakeholder Meeting and Training Workshop, Cotonou, Benin, September 5-8, 2006.

Xia, Y. 2006. Goals and objectives of IPM CRSP IT Database global theme for West Africa. West Africa Regional IPM Consortium

### **Albania**

J. Tedeschini, B. Stamo, H. Paçe, R. Uka, M. Hasani, Z. Veshi, M. Baçaj, D. Pfeiffer, L. Ferguson, B. Teviotdale. Effect of Pruning on Olive Production. The incidence of Olive Knot and Timing of Copper Sprays to Control Leaf Spot and Olive Knot. Presented at the National Symposium "Integrated Pest Management in Olive". Vlora, Albania, 17 June 2004.

J. Tedeschini, H. Paçe, B. Stamo, V. Jovani, B. Huqi, Sh. Shahini, R. Uka, M. Hasani, M. Baçaj, C. Pitts, D. Pfeiffer, L. Ferguson, B. Teviotdale, M. McGiffen. Monitoring of Crop Pests and Their Natural Enemies in Olive Production Systems. Presented at the National Symposium "Integrated Pest Management in Olive". Vlora, Albania, 17 June 2004.

J. Tedeschini, B. Stamo, B. Huqi, H. Paçe, Sh. Shahini, H. Ismaili, Dh. Panajoti, M. Baçaj, M. McGiffen, L. Ferguson. Organic Methods of Vegetation Management and Olive Insect Control. Presented at the National Symposium "Integrated Pest Management in Olive". Vlora, Albania, 17 June 2004.

J. Tedeschini, F. Thomaj, Dh. Panajoti, B. Ferraj, M. Baçaj, M. Bregasi, C. Pitts, D. Pfeiffer, L. Ferguson. Effect of Harvest Timing on Olive Fly Infestation and Olive Oil Yields and Quality. Presented at the National Symposium "Integrated Pest Management in Olive". Vlora, Albania, 17 June 2004.

## Publications/Products List

- J. Tedeschini, R. Uka, M. Baçaj, D. Pfeiffer. Application of “Attract and Kill” method (using EcoTraps) for the olive fruit fly control. Presented at the National Symposium “Integrated Pest Management in Olive”. Vlora, Albania, 17 June 2004.
- L. Daku, G. Norton, D. Taylor, D. Pfeiffer, J. Tedeschini. Economic impacts of IPM CRSP research on olive pest management in Albania. Presented at the National Symposium “Integrated Pest Management in Olive”. Vlora, Albania, 17 June 2004.
- Pfeiffer, D. G., G. C. Luther and C. W. Pitts. 1999. A participatory IPM project in Albanian olives. Entomol. Soc. Am. Eastern Branch, Virginia Beach VA. Feb. 21-24.
- Pfeiffer, D., J. Tedeschini. Project presentation IPM CRSP—Albania. Presented at the National Symposium “Integrated Pest Management in Olive”. Vlora, Albania, 17 June 2004.
- Tedeschini, J., B. Stamo, B. Huqi, H. Pace, E. Isufi, H. Ismaili, Dh. Panajoti, M. Bacaj, M. McGiffen, L. Ferguson. 2001. Organic Methods of Vegetation Management and Olive Insect Control. *Two papers* were presented at the Interreg II Italy-Albania Workshop, September 11-12, Tirana and Vlora.
- Tedeschini, J., E. Isufi, R. Uka, M. Bacaj, D. Pfeiffer. 2000-2001. In *two seminars* organized by PPI, a practical IPM Program for olive was presented and discussed.
- Tedeschini, J., E. Isufi, R. Uka, M. Bacaj, D. Pfeiffer. 2001. Pheromone-Based IPM in Olive and Effects on Non-Target Species. Interreg II Italy-Albania Organic Agriculture Workshop, Albania, September 2001.

## **Bangladesh**

- A. N. M. Rezaul Karim. 2004. Implementation of the IPM package for eggplant production. A paper presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.
- A. N. M. Rezaul Karim. 2004. Magic traps and cottage industries transforming pest management in Jessore, Bangladesh. A paper presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.
- A. N. M. Rezaul Karim. 2004. The vegetable industry in Bangladesh: Critical IPM needs. A paper presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.
- Gilbert, J. R., G. W. Norton, J. Alwang, M. Miah, and G. Feder. 2006. Cost effectiveness of alternative extension methods: The case of Bangladesh," Presented at the 26th Conference of the International Association of Agricultural Economists, Gold Coast, Australia, August 15, 2006, 30 participants.
- Gilbert, J. R., G.W. Norton, J. Alwang, M. Miah and G. Feder. 2006. Cost effectiveness of alternative extension methods: An example from Bangladesh, NC-1003 meeting, Jekll Island, Georgia, 40 participants.
- M. A. Rashid, Shahabuddin Ahmad, Aatur Rahman, M. A. Goffar, Bahauddin Ahmed, A. N. M. R. Karim and E. G. Rajotte. 2004. Grafting of eggplant and tomatoes: An Effective technique to control bacterial wilt disease and achieve high yields. A paper presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.
- Mozammal Hoque, M. Nazim Uddin, S. R. Mollik, Mahbubur Rahman, A. N. M. R. Karim, E. G. Rajotte and G. C. Luther. 2004. IPM approach for controlling lepidopteran pests of cabbage in Bangladesh. A paper presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.

## Publications/Products List

Nils Den Tex. 2004. The vital role of NGOs: Amplifying the IPM message through CARE's smallholder pest management program in vegetables. A paper presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.

### **Benin**

Beed, F. 2006. Welcome to IITA-Bénin and Aims of Stakeholder Meeting and Training Workshop. International Plant Diagnostic Network (IPDN) West Africa: Stakeholder Meeting and Training Workshop, Cotonou, Benin, September 5-8, 2006.

Boa, E. 2006. A means to an end: the Global Plant Clinic and primary plant healthcare. International Plant Diagnostic Network (IPDN) West Africa: Stakeholder Meeting and Training Workshop, Cotonou, Benin, September 5-8, 2006.

Clarendon, H. 2006. How do I know what I have and what does it matter if I know?. International Plant Diagnostic Network (IPDN) West Africa: Stakeholder Meeting and Training Workshop, Cotonou, Benin, September 5-8, 2006.

Miller, S. 2006. A. U.S. National Plant Diagnostic Network (NPDN) and International Plant Diagnostic Network (IPDN). International Plant Diagnostic Network (IPDN) West Africa: Stakeholder Meeting and Training Workshop, Cotonou, Benin, September 5-8, 2006.

Smith, J. 2006. Development of pest diagnostics and the provision and positioning of technical plant health services. International Plant Diagnostic Network (IPDN) West Africa: Stakeholder Meeting and Training Workshop, Cotonou, Benin, September 5-8, 2006.

### **Cameroon**

Leke, W. N., J. N. E. Ramsell, D. K. Njualement, V. P. K. Titanji, J. P. Legg, V. N. Fondong, J. K. Brown, and A. Kvarnheden. 2007. FTA technology facilitates detection and identification of Begomoviruses from okra plants in Cameroon. 8ACSS, El-Minia, Egypt, 27-31 Oct. 2007.

### **Central Asia**

Aitmatov, M., G. Bird and W. Pett. 2007. Strengthening IPM Outreach/ Education in the Central Asia Region, Central Asia IPM Stakeholders Forum, Dushanbe-Tajikistan.

Maredia, K. and D. Baributsa. 2007. Integrated Pest Management Collaborative Research Support Program (IPM-CRSP), Central Asia IPM Stakeholders Forum, Dushanbe-Tajikistan.

Maredia, K. and N. Saidov. 2007. IPM CRSP Program in Central Asia. Tenth Meeting of the Steering Committee of the CGIAR Program for Central Asia and the Caucasus. May 29-30, 2007. Dushanbe, Tajikistan.

Maredia, K., F. Zalom and D. Baributsa attended the Sixth International IPM Symposium in Portland, Oregon from March 22 - 25, 2009. Two posters were presented covering research results and outcomes of the Central Asia IPM CRSP project.

Maredia, K., F. Zalom and R. Paroda. 2006. Ecologically-Based Participatory and Collaborative Research and Capacity Building in IPM in Central Asia Region. CGIAR Meeting, Washington, D.C.

Muniappan, R., S. Nakkeeran, A. Raham, and H. Rapusas. 2012. Use of *Trichoderma* in agriculture in Asia. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

## Publications/Products List

Naidu, R.A. 2007. An IPM approach for mitigating the impact of thrips-borne tospoviruses in vegetable cropping systems. Central Asia Regional IPM Stakeholders Forum meeting, Dushanbe, Tajikistan, May 27-29, 2007.

Pfeiffer, D.G., A.D. Bratsch and J. Tedeschini. 2006. Participatory appraisal in expanding the Eastern European IPM CRSP. 5th National IPM Symposium, St. Louis MO. Apr. 4-6.

Saidov, N. and D. Landis. 2007. Landscape Ecology and Biological Control. Central Asia IPM Stakeholders Forum, Dushanbe-Tajikistan.

Saidov, N. and D. Landis. 2008. Landscape ecology and biodiversity to enhance biodiversity and biological pest management. 9th International Conference on Dryland Development, Sustainable Development in the Drylands Meeting the Challenge of Global Climate Change, Alexandria, Egypt.

Saidov, N. and D. Landis. 2009. Enhancing pest management in organic farming via conservation biological control. 2<sup>nd</sup> International Conference on Organic Sector Development in Central/Eastern European and Central Asian countries, Tbilisi, Georgia.

Saidov, N., D. Landis, A. Fiedler, V.K. Nazirov and A. Khalimov. 2008. The Role of Nectar Plants on Attraction Natural Enemies in Agro-Landscapes. The 60th Anniversary of the Department of Biology of the National University of Tajikistan, Dushanbe, Tajikistan.

Tashpulatova, B. 2008. "Application of methods of biological control in agriculture," Tashkent, Uzbekistan.

Tashpulatova, B. and F. Zalom. 2007. Enhancing the Efficiency and Product Lines of Biolaboratories in Central Asia. Central Asia IPM Stakeholders Forum, Dushanbe-Tajikistan.

Tashpulatova, B. and F. Zalom. 2008. Biological control of *Thrips tabaci* (Thysanoptera: Thripidae) using *Amblyseius mckenziei* (Acarina: Phytoseiidae) on onion crop in Kyrgyzstan and Uzbekistan. Conference for the 50th anniversary of Kaz. Scientific Res. Institute of Plant Protection and Quarantine, Almaty, Kazakhstan.

Tashpulatova, B. and F. Zalom. 2009. Enhancing the Efficiency and Product Lines of Biolaboratories in Central Asia. Central Asia Stakeholders Forum, Bishkek, Kyrgyzstan.

### China

Xia, Y. 2006. CIPM Global IPM Database Efforts. China International Invasive Species Forum

### Ecuador

Barrera, V. 2001. The use of pesticides in the province of Carchi. Part of the event "Impacts of the use of pesticides on the province of Carchi", organized by CIP-INIAP-Eco-health-SM-CRSP-IPM-CRSP, in the Quito Hotel, Quito. May 2001

Basantes, L. and S. Sherwood. 1999. "Papas, pests, pesticides, and power". March 1999 conference of the Global Late Blight Initiative (GILB), Quito.

Belezaca, C., Suárez, C., Cedeño, J., Carranza, I. & Delgado, R. 2003. Determinación de distancia de siembra y diseños espaciales para el manejo de Sigatoca Negra en plátano Barraganete Común (Musa AAB). Presented in the XII Seminario Nacional de Sanidad Vegetal. Latacunga, Ecuador. 19-21 de Noviembre, 2003.

Bone, S., Suárez, C., Belezaca, C. & Delgado, R. 2003. Eficiencia de fungicidas biológicos y bioestimulantes para el control de *Mycosphaerella fijiensis* Morelet (Sigatoca Negra) en plátano Barraganete Común (Musa

## Publications/Products List

AAB). Presented in the XII Seminario Nacional de Sanidad Vegetal. Latacunga, Ecuador. 19-21 de Noviembre, 2003.

Buck, S. 2006. Sustainable development and IPM Technology Transfer: A case study of Naranjilla farmers in the Ecuador. Thiel College Global Heritage Lecture; April 2006

Buck, S. 2006. The role of trust in bank loan up-take: Results from field experiments in the Ecuadorian Amazon North Eastern Universities Development Consortium Conference 2006 at Cornell University; September 2006.

Buck, S. 2006. The role of trust in knowledge acquisition and bank loan up-take: Results from field experiments in the Ecuadorian Amazon. OSU Brown Bag Seminar in Agricultural, Environmental & Development Economics Dept.; March 2006

Buck, S. and J. Alwang. 2006. The role of trust in knowledge acquisition: Results from field experiments in the Ecuadorian Amazon. American Agricultural Economics Association Meetings 2006, Long Beach, CA; July 2006

Chulde, F. 2001. Presentation about FSs at the Consortium Carchi directed to technicians of public institutions and NGOs. May, 2001.

Chulde, F., V. Barrera, G. Norton, L. Escudero, J. Suquillo, C. Monar, S. Sherwood, P. Gallegos, J. Revelo. 1999-2000. Validation and Diffusion of Models for Integrated Pest Management (IPM) of Potato in the Provinces of Carchi and Bolivar, Ecuador. FS's presentation at the Carchi Consortium, aimed at technical personnel of public institutions and NGOs.

Crissman, C. 2001. Analysis of the political aspects of the use of pesticides in the province of Carchi. Part of the workshop on "Impacts on the use of pesticides in Carchi", organized by CIP, INIAP, Eco-health Project, SM-CRSP, and IPM-CRSP in Quito. May 2001

Crissman, C. 2001. Methodological and conceptual bases of the Tradeoffs model. Part of the enabling of 20 technicians that participated in the "Strategic International Alliance INIAP-CIP, on mixed production systems", financed by the World Bank – PROMSA. January 2001.

Crizón, M. 2001. Gender Equality. UVTT-Carchi directed to technicians and authorities of the province of Carchi. August 2001

Crizón, M. 2002. "Culture, identity y gender". Carchi, Unit of Validation and Technology Transfer, INIAP.

Crizón, M. 2002. "Participative training with women's and youth groups on safe pesticide usage and IPM Practices". Santa Catalina Experimental Station, INIAP.

Escudero, L. 2001. Presentation about the results of the FSs in the province of Carchi. Representatives of GOs and NGOs attended. March, 2001

Escudero, L. 2002. "The Field Schools in the province of Carchi". NorVisión, Agricatttle broadcast.

Escudero, L., Barrera, G. Norton, J. Suquillo, C. Monar, S. Sherwood, P. Gallegos, J. Revelo. 2000. Validation and Diffusion of Models for Integrated Pest Management (IPM) of Potato in the Provinces of Carchi and Bolivar, Ecuador. FS's presentation on the IPM experience in Ecuador, March, 2000, in Lima, Perú.

Flowers, W., Belezaca, C., Vera, D. & Echeverria, F. 2004. *Amauta cacica* (Lepidoptera, Castniidae), nueva plaga del plátano en las estribaciones andinas del Noroccidente ecuatoriano. Accepted for the XVI Internacional Congress of Acobat. Oaxaca, México. September 26 to November 1, 2004.

## Publications/Products List

Gallegos, P., Carrasco, I. & Asaquibay, C. 2001. Control of the larvae of the beetle *Phyllophaga* sp, with biological products *Metarhizium anisopliae* and *Beauveria* sp. in blackberry *Robus glaucus* Benth. XI National Seminar of Plant Protection, Babahoyo, Ecuador. Memories. Technical University of Babahoyo, Agronomy School.

Gallegos, P., F. Maiguashca, R. Williams, S. Garcés, C. Asaquibay. 1999-2000. Biological Control of Major Insect Pest of Potatoes in Ecuador: The Andean Weevil *Premnotrypes vorax* and Central American Tuber Moth, *Tecia solanivora*; Subproject: Evaluation of eight low toxicity insecticides to mammals to control Andean Potato Weevil, *Premnotrypes vorax*. A seminar was presented to 8 students at the Universidad Central with the theme of pest control in potatoes.

Gallegos, P., J. Viteri, R. Williams, C. Asaquibay and J. Ochoa. 2001-02. Effects of nutritional unbalance of babaco over the mite *Eotetranychus* nr. *deflexus* (McGregor) and study of the mite fauna of the babaco growing areas of the highlands of Ecuador. Presented to students of the Technical University of Ambato.

Gallegos, P., J. Viteri, R. Williams, C. Asaquibay, J. Ochoa. 2001-02. Effects of nutritional unbalance of babaco over the mite *Eotetranychus* nr. *deflexus* (McGregor) and study of the mite fauna of the babaco growing areas of the highlands of Ecuador. Presented to students of Agronomy School of the Central University of Ecuador.

Gallegos, P., J. Viteri, R. Williams, C. Asaquibay, J. Ochoa. 2001-02. Effects of nutritional unbalance of babaco over the mite *Eotetranychus* nr. *deflexus* (McGregor) and study of the mite fauna of the babaco growing areas of the highlands of Ecuador. Presented to students of the specialization Chemistry-biology of High Schools such as Hipatia Cárdenas and Inmaculada Concepción of Quito, Ecuador.

Gallegos, P., J. Viteri, R. Williams, C. Asaquibay, J. Ochoa. 2001-02. Effects of nutritional unbalance of babaco over the mite *Eotetranychus* nr. *deflexus* (McGregor) and study of the mite fauna of the babaco growing areas of the highlands of Ecuador. Presented to students of the Polytechnic School of the Army.

Gallegos, P., J. Viteri, R. Williams, C. Asaquibay, J. Ochoa. 2001-02. Effects of nutritional unbalance of babaco over the mite *Eotetranychus* nr. *deflexus* (McGregor) and study of the mite fauna of the babaco growing areas of the highlands of Ecuador. Presented to students of the Polytechnic School of Chimborazo.

Gallegos, P., J. Viteri, R. Williams, C. Asaquibay, J. Ochoa. 2001-02. Effects of nutritional unbalance of babaco over the mite *Eotetranychus* nr. *deflexus* (McGregor) and study of the mite fauna of the babaco growing areas of the highlands of Ecuador. Presented to students of the University of Bolívar.

Gallegos, P., M. Arroyo, R. Williams and G. Norton. 1999. Control strategies for the Two Spotted Spider Mite, *Tetranychus urticae* Kork, in babaco, *Carica pentagona* Heilbornni, in Pichincha- Ecuador. June 14, 1999 Workshop in Santa Catalina Experimental Station.

Gallegos, P., M. Arroyo, R. Williams, J. León and P. Viteri. 2000. Strategies to control the mite *Eotetranychus* nr. *deflexus*, in babaco *Carica pentagona*, in greenhouses, in the province of Pichincha. Presented to the students and faculty of Agricultural Science, Universidad Central del Ecuador.

Gallegos, P., M. Freire, and C. Asaquibay. 2001. Control of the Andean weevil *Premnotrypes vorax* H. National Seminar of Plant Protection. 2001, Babahoyo (Ecuador). Memories. Babahoyo, Technical University of Babahoyo, Agronomy School.

Gallegos, P., Rodríguez, P. & Asaquibay, C. 2001. Management of *Tecia solanivora* in storage of potato seed tuber by means of biological control. XXI Congress of the Latinamerican Potato Association. Quito, Ecuador, 4-7 June of 2002.

- Gallegos, P., Rodríguez, P. & Asaquibay, C.. 2001. Management of *Tecia solanivora* in storage of potato seed tuber by means of biological control. XI National Seminar on Plant Protection. School of Agronomy of the Technical University of Babahoyo, 20-23 November of 2002.
- Gallegos, P.; C. Asaquibay, M. Freire, and R. Williams. 2002. Efficiency of applications with Triflumuron, at half of the plant and at the whole plant, for the control of Andean weevil *Premnotrypes vorax* H in potato *Solanum tuberosum* L. Presentation in the Congress of the Latinamerican Potato Association, 4-7 of June, 2002. Quito, Ecuador.
- Herrera, V. 2001. Use of pesticides in the province of Carchi. Part of the workshop on “Impacts on the use of pesticides in Carchi”, organized by CIP, INIAP, Eco-health Project, SM-CRSP, and IPM-CRSP in Quito. May 2001.
- Mauceri, M., J. Alwang, G. Norton, and V. Barrera. 2006. Adoption of Integrated Pest Management Technologies: A case study of potato farmers in Carchi, Ecuador. Presented at the IAAE2006 meeting, Brisbane AU, August 15, 2006.
- Monar, C. 2002. “The methodologies of the Field Schools for Farmers and Local Agricultural Research Committees, as training strategies and participatory research”. Bolívar State University. International Seminar of Sustainable agriculture. 6 hours duration.
- Ochoa, J. and G. Fonseca. 1998. La Marchitez Vascular o Fusariosis del Babaco. Sintomnatalogia, Etiologia, Patogenicidad, Diagnostico y su asociacion con Meloidogine incognita en Pichincha y Tungurahua. In: National Congress of Phytopathology. 21/23 October. 1998. Quito/Ecuador.
- Ochoa, J. and G. Fonseca. 1999. Etiology and Epidemniological aspects of the vascular wilt or fusariosis of Babaco in Ecuador. In: X Latinamerican Congress of Phytopathology. The Latinamerican Phytopathological Society. Sep. 27- Oct. 1 of 1999. Guadalajara, Jalisco, Mexico.
- Pilar, J. and D. Mainville. 2007. The Cacao Marketing Chain in Ecuador: Analysis of Chain Constraints to the Development of Markets for High Quality Cacao. Selected paper for International Food and Agribusiness Management Association Annual Conference, Parma Italy. June 25-27.
- Quishpe, D. 2001. Economic evaluation of the changes of the integrated pest management technologies on potato producers from the Ecuadorian highlands. Thesis presentation, Central University of Ecuador, August 2001.
- Revelo, J., C. Asaquibay, S. Garcés. 1999. Verification and Evaluation of Efficiency and Profitability of Chemical Control Strategies of Late Blight (*Phytophthora infestans*) in Susceptible Potato Varieties at Two Areas of the Ecuadorian Highand. June 14, 1999 Workshop in Santa Catalina Experimental Station.
- Revelo, J., P. Gallegos, C. Asaquibay, A. Lagnaoui, L. Zeddan, J. Alcázar, A. Vera, R. Williams, M. Ellis, G. Norton, Jeovany Suquilli, Juan Puetate. 1999. Development of IPM Alternatives for Major Potato Pests in Ecuador. June 14, 1999 Workshop in Santa Catalina Experimental Station.
- Rivera, R., C. Suárez, C. Triviño, and M. Ellis. 2003. Frecuencias y densidades poblacionales de los principales nemátodos fitoparásitos del plátano (*Musa AAB*) en el Ecuador. Presented in the XII Seminario Nacional de Sanidad Vegetal. Latacunga, Ecuador. 19-21 de Noviembre, 2003.
- Rivera, R., C. Suárez, D. Vera, C. Belezaca, and M. Ellis. 2004. Influencia del grado de tecnificación de las fincas sobre las poblaciones de fitonematodos en plátano cv. Barraganete, en Ecuador. Accepted for the XVI Internacional Congress of Acorbat. Oaxaca, México. September 26 to November 1, 2004.
- Sherwood, S. 1999. Collaborative natural resource management. Sustainable Natural Resource Management (SANREM) meeting, Quito. July 1999.

## Publications/Products List

- Suárez C., R. Rivera, M. Ellis. 2002. Influencia de la asociación o sucesión del cultivo en la población de nemátodos parásitos del plátano. Poster presented in XV International Meeting of Acorbat, Cartagena, Colombia.
- Suárez C., R. Rivera, M. Ellis. 2002. Nematofauna asociada al cultivo del plátano como monocultivo en la zona de El Carmen, Ecuador. Poster presented in XV International Meeting of Acorbat, Cartagena, Colombia.
- Suárez C., R. Rivera. 2001. Nematodos benéficos presentes en el Trópico húmedo. In XI seminario Nacional de Sanidad Vegetal. Babahoyo, Ecuador. From November 20 – 23.
- Suárez-Capello, C., D. Vera, F. Echeverría, R. Justicia, W. Flowers, R. Carroll, R. Williams, M. Ellis, G. Norton, J. Alwang. 2001. IPM for Plantain/Coffee Agroforestry System in Northwestern Ecuador: A land use Alternative to Low-Quality Pasture Within a Fragile Agro-ecosystem. Presented during the March IPM CRSP meeting.
- Suárez, C. 2007. Participation of IPM CRSP in Coastal Ecuador, August 9<sup>th</sup>, Quito. Presentation to USAID Mission and Agricultural Projects, C. 22 participants
- Suquillo, J. 1999. The IPM research and training initiative. The Consortium Carchi.
- Suquillo, J. 2001. Participated as a facilitator in El Salvador, on the formation of IPM trainers under the FS's methodology. March, 2001
- Suquillo, J., V. Barrera, G. Norton, L. Escudero, C. Monar, S. Sherwood, P. Gallegos, J. Revelo. 1999. Validation and Diffusion of Models for Integrated Pest Management (IPM) of Potato in the Provinces of Carchi and Bolivar, Ecuador. Presentation about the FS's at Santa Catalina Experimental Station of INIAP, aimed at technical personnel and INIAP officials.
- Vera D., C. Suárez. 2001. Aproximación a la epidemiología comparativa de la Sigatoka Negra (*Mycosphaerella fijiensis*, Morelet en banano (*Musa AAA*) y Plátano (*Musa AAB*). In XI seminario Nacional de Sanidad Vegetal. Babahoyo, Ecuador. From November 20 – 23.
- Vera D., C. Suárez. 2001. Manejo Integrado de problemas fitosanitarios en plataneras en rehabilitación. In XI seminario Nacional de Sanidad Vegetal. Babahoyo, Ecuador. From November 20 – 23.
- Vera, D. 2007 Cultivo de platano como un negocio rentable para Ecuador. Seminario sobre practicas de Manejo integrado del Cultivo en plantaciones de Plátano y su relación con Sigatoka negra. Colegio Calazacon, Santo Domingo, Pichincha, Ecuador. Junio 30, 2007. 60 participants
- Vera, D., C. Suárez and C. Belezaca. 2004. Estrategias de manejo integrado de la sigatoka negra en plátano cv. 'Barraganete' *Musa AAB*) en el Ecuador. Accepted for the XVI Internacional Congreso of Acorbat. Oaxaca, México. September 26 to November 1, 2004.

## Guatemala

- Arevalo, M. 2006. Fungal diseases and nematode problems in the Central American region. IPM CRSP International Plant Diagnostic Network (IPDN) Training on New and Emerging Pathogens, Antigua, Guatemala, June 29, 2006.
- Asturias de Barrios, L. and G. H. Sullivan. 1998. Regional socioeconomic survey: Preliminary data on two Kaqchikel communities. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.
- Asturias de Barrios, L., B. Tevalán and G. Sullivan. 1998. Snow Pea in Guatemala: Socioeconomic description of production and impact of the 1995-1996 leaf miner crisis. In the IPM CRSP – Guatemala III



Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Barrientos, R.. 1998. Efficacy of microbial insecticides, neem and soap for control of *Dysmicoccus brevipes* (Homoptera: Pseudococcidae) in organic pineapple in Lake Yojoa, Honduras. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Bazini, H.C., A.O. Polanco, D.D. Avila, and S. Weller. 1998. Identification of White Grub (Coleoptera: Scarabaeidae) Genera and Species that Cause Damage in Broccoli, Guatemala, 1997. XLVI PCCMCA (Central American Cooperative Project for the Improvement of Food Crops) Meeting in Nicaragua, March – April, 1998.

Bazini, H.C., S. Weller, A.O. Polanco and D.D. Avila. 1998. Spatial Distribution of *Brassica napus* as a Trap Crop for the Control of Lepidoptera in Broccoli (*Brassica oleracea* var. *italica*), Guatemala. XLVI PCCMCA Meeting presentation in Nicaragua, March-April 1998.

Bazini, H.C., S. Weller, A.O. Polanco, and D.D. Avila. 1998. Use of Wild Crucifers as Trap Crop for the Control of *Plutella xylostella* in Broccoli (*Brassica oleracea* var. *italica*). XLVI PCCMCA (Central American Collaborative Project for the Improvement of Food Crops) Meeting presentation in Nicaragua, March-April 1998.

Bazini, H.C., S. Weller, D.D. Avila and A.O. Polanco. 1998. Evaluation of Baculovirus Sprayings for the Management of Lepidopteran Pests in Broccoli, Guatemala, 1997. XLVI PCCMCA Meeting presentation in Nicaragua, March-April 1998.

Bazini, H.E.C., R.E.H. Chea, L.F.C. Bran, D.D. Avila, S. Weller. 2001. Biofumigant Effect of Several Sources of Organic Material in Broccoli (*Brassica oleracea* Var. *Itálica*). Presented at the IV IPM CRSP Seminar: Integrated Pest Management in Non-Traditional Export Crops held in Guatemala City June 7 and 8, 2001.

Brown, J.K., A.M. Idris, M. Palmieri. 2002. “Diversity of begomoviruses and their whitefly vector in four geographical zones of Guatemala”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Brown, J.K., M.M. Doyle, A.M. Idris, R.D. Martyn. 2002. “Begomoviruses of vegetable crops and weeds in Honduras by core coat protein sequence analysis”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Calderon, L.F. 2002. “Grafting in vegetables: a component of great potential in integrated crop management”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Calderón, L.F. et al. Effect of different alternatives of fertilization in snow peas with plastic soil covers. These results have been divulged among technicians and owners of export companies affiliated to GEXPRONT, and a formal presentation was made in the GEXPRONT offices.

Calderón, L.F. et al. Evaluation of fertilizer levels with silver colored plastic ground covers on yields and repellence to leafminers and thrips. Presented to the Non-Traditional Exporters Guild and to technicians of snow pea agricultural export companies.

## Publications/Products List

Calderón, L.F. et al. Preliminary evaluation of the effect of growing snow peas under laboratory greenhouse and field conditions on the “sandpaper” damage of snow pea pods. Presented to snow pea exporters affiliated with GEXPRONT and with field technicians of these same companies.

Calderón, L.F., P.L. López and S. Weller. 1998. Identification of the causal agent of the damage commonly known as “lija” (sandpaper lesion) on snow pea (*Pisum sativum*) pods. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Carranza, H. et al. Use of wild crucifers as a trap crop for *Plutella xylostella* in broccoli (*Brassica oleracea* var. *italica*). Presented to the Broccoli Committee of AGEXPRONT.

Carranza, H., A. Orellana, D. Dardón, L. Calderón and S. Weller. 1998. Spatial distribution of *Brassica napus* as a trap crop for the control of lepidoptera pests in broccoli (*Brassica oleracea* var. *italica*), Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Carranza, H.E., A.D. Orellana, D.E. Dardón, and S. Weller. 1998. Use of wild crucifers as traps crop for the control of *Plutella xylostella* in broccoli (*Brassica oleracea* var. *italica*). In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Carranza, H.E., A.D. Orellana, D.E. Dardón, L.F. Calderón and S. Weller. 1998. Diagnosis and identification of genus and species of white grub (Coleoptera: Scarabaeidae) that cause damage in broccoli, Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Carranza, H.E., L.F. Calderon, D.E. Dardon, S. Weller. 2002. “Evaluation of different mixtures and doses of: Chicken manure, *Brassica* sp. and broccoli residues, using biofumigation in broccoli crop (*Brassica oleracea* var. *italica*)”. Presented at the 42nd Meeting of the American Phytopathology Society Caribbean Division and the IPM CRSP 5<sup>th</sup> Seminar of Integrated Pest Management in Non-Traditional Export Crops held in Guatemala June 17-19, 2002.

Carranza, H.E., L.F. Calderon, D.E. Dardon, S. Weller. 2002. “Evaluation of different mixtures and doses of: Chicken manure, *Brassica* sp. and broccoli residues, using biofumigation in broccoli crop (*Brassica oleracea* var. *italica*)”. Presentations were made at ICTA during July and August 2002.

Carroll, C.R. and A. Dix "Agroecological perspective on IPM. Second IPM CRSP Conference, July 11-12, 1996. Universidad Rafael Landivar, Guatemala.

Chinchilla, M. 1998. Compilation of ancestral knowledge on agricultural pest management of the kiche´ and kaqchikel ethnic groups from the departments of Totonicapán and Chimaltenango, Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Dix, A. "Gallina ciega prefiere caña de milpa enterrada en cajas". Second IPM CRSP Conference, July 11-12, 1996. Universidad Rafael Landivar, Guatemala.

Dix, A. Influencia de caña de milpa enterrada en cajas". Second IPM CRSP Conference, July 11-12, 1996. Universidad Rafael Landivar, Guatemala.

Dix, A. Influencia de caña de milpa, gallinaza y policultivo sobre la abundancia de gallina ciega y daño en broccoli". Second IPM CRSP Conference, July 11-12, 1996. Universidad Rafael Landivar, Guatemala.

## Publications/Products List

Dix, A.M. 1995. IPM in non-traditional export agriculture in Guatemala: the case of Chilasco, Baja Verapaz, Guatemala. XIX International Congress, Latin American Studies Association, Washington D.C., September 28-30, 1995.

Esquite, A., L. Calderon, G. Sanchez, S. Weller. 2002. "Validation of technology for growing of eatable mushrooms (*Pleurotus ostreatus*), in Chimaltenango. Preliminary Study." Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Fischer, E.F., S. Hamilton, and L. Asturias de Barrios. 2001. Cultural and socioeconomic impacts of nontraditional agricultural exports in the Guatemalan Highlands. Presented at the American Anthropological Association, 100<sup>th</sup> Annual Meeting, Washington, D.C., November, 28-December 2, 2001.

Gilbertson, R. 2007. Current Status of Geminivirus and Other Viral Diseases of Tomato and Pepper in Guatemala 2007. IV Congreso Nacional de Horticultura (Guatemala City, Guatemala) Invited Lecture.

Hamilton, S. 2000. Blood, Sweat and Tears: Gender and Entitlement to Land in Ecuador, Guatemala, and Mexico. The 2000 Meeting of the Latin American Studies Association, Miami. March 16-18, 2000.

Hamilton, S. and L. Asturias de Barrios. 1998. Gender and IPM adoption in the Guatemalan Highlands: IPM-CRSP baseline 1998. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Hamilton, S. and L. Asturias. 2002. Socioeconomic impacts of nontraditional export production in Chimaltenango: Perceptions on sustainability. Presented at the V Seminar IPM in Non-Traditional Export Crops, Antigua Guatemala, Guatemala, June, 17-20, 2002.

Hamilton, S., L. Asturias, and B. Tevalan. Intrahousehold Resource Control and Agricultural Commoditization in Guatemala and Ecuador. Paper presented at the Society for Applied Anthropology Annual Meetings in Tucson, April 20-24, 1999.

Hamilton, S., L. Asturias, and G. Sullivan. 2001. Economic, Social, and Environmental Impacts of Non-traditional Export Crop Production in Highland Guatemala: Impact Perception Survey. Paper presented at the IV Seminar: Integrated Pest Management in Non-Traditional Export Crops, Guatemala City, June 7-9, 2001.

Hamilton, S., L. Asturias, and G. Sullivan. 2001. Small-scale Agricultural Export Production in Highland Guatemala: Social and Environmental Issues. Paper presented to the XXII International Congress of the Latin American Studies Association, Washington, D.C., September 5 – 9, 2001.

Hernandez, A. 2002. Taxonomical survey of the two-spotted spider mite in snow pea leaf (*Pisum sativum*) in Guatemala. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Hernandez, A. 2002. Presence and damage of the mite of snow pea (*Pisum sativum*) in Patzun, Chimaltenango. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Hernández, J.M.M., D. Dardón, L. Calderón, C.R. Edwards. 1999. Evaluation of Leaf Miner Hosts (*Liriomyza huidobrensis*) for Massive Breeding of the Ectoparasitoid *Diglyphus* sp. Presented in the XLV PCCMCA (Central American Cooperative Project for the Improvement of Food Crops) meetings held in Guatemala.

## Publications/Products List

Julian, J.W. and G.H. Sullivan. 1998. Trade development in NTAE Crops: Guatemala's future market competitiveness and sustainability. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Julian, J.W., G.H. Sullivan, and G.E. Sánchez. 2001. The role of pre-inspection programs in achieving sustainability in non-traditional agricultural export markets. June, 2001. The 4<sup>th</sup> IPM NTAE Crops Seminar, Guatemala City, Guatemala, CA

Lamport, P. and S. Weller. 1998. Development of IPM strategies for the control of the leafminer *Liriomyza huidobrensis* (Blanchard) on snow peas. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Lamport, P.P. 1999. Thesis seminar – Development of IPM Techniques for the Control of Leaf miners on Snow Peas. Purdue University. Presented by September 24, 1999.

Leal, J.E. and A. Chamorro. 1998. Monitoring soil fertility and plant nutrition on the different projects of the IPM CRSP program. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Leal, J.E., A. Chamorro and S. Weller. 1998. Nutrient uptake monitoring in snow peas (*Pisum sativum*). In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

MacVean, C., G. Rodriguez, E. Castellanos, C. Monzon. 2002. "Predicting the geographic distribution of the pea leaf miner, *Liriomyza huidobrensis*, using temperature tolerances in a GIS model". Presented at the 42<sup>nd</sup> Annual Meeting of the American Phytopathological Society – Caribbean Division and 5<sup>th</sup> Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Melgar, J. C., J. M. Rivera C., D. Krigsvold, M. M. Doyle, E. Aguilar, A. Rueda, J. Brown, R. Martyn. 2002. Identification, Distribution and Epidemiology of Plant Virus Pathogens that Threaten Pepper/Tomato and Cucurbit Production in Honduras (Phase 1). Preliminary results were presented at the 42<sup>nd</sup> Annual Meeting of the American Phytopathological Society-Caribbean Division and 5<sup>th</sup> Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June, 2002.

Méndez, F., M. Zeiss, M. Bustamante, and M.M. Doyle. 1998. Effect of spore concentration and solar radiation on severity of *Phyllosticta zingiberi* and management of soil-borne pathogens in ginger. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Mendizabal, R., K. Mills, J.M. Seijas, M. Palmieri, G. Sanchez, M. Deom, W. Parrott. 2002. "In vitro culture of local, hawaianan and maradol papaya." Presented at the 42<sup>nd</sup> Annual Meeting of the American Phytopathological Society – Caribbean Division and 5<sup>th</sup> Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Miller, S. A. 2006. Background on the IPDN project. IPM CRSP International Plant Diagnostic Network (IPDN) Training on New and Emerging Pathogens, Antigua, Guatemala, June 29, 2006.

Miller, S. A. 2006. Bacterial disease diagnosis and ID. IPM CRSP International Plant Diagnostic Network (IPDN) Training on New and Emerging Pathogens, Antigua, Guatemala, June 29, 2006.

Miller, S. A. 2006. Introduction to the IPM CRSP and International Plant Diagnostic Network. IPM CRSP International Plant Diagnostic Network (IPDN) Stakeholder Meeting, Antigua, Guatemala, June 28, 2006.

Miller, S. A. 2006. Introduction to the IPM CRSP and International Plant Diagnostic Network. IPM CRSP International Plant Diagnostic Network (IPDN) Stakeholder Meeting, Antigua, Guatemala, June 28, 2006.

Momol, T. The U.S. National Plant Diagnostic Network (NPDN). IPM CRSP International Plant Diagnostic Network (IPDN) Stakeholder Meeting, Antigua, Guatemala, June 28, 2006.

Mills, K., M. Palmieri, G. Sánchez, M. Deom and W. Parrott. 2002. Transformation of papaya (*Carica papaya* L.) with PRV-p capsid gene using *Agrobacterium tumefaciens* as a vector using kanamycin for selection. Research was presented at the 42<sup>nd</sup> Annual Meeting of the American Phytopathology Society (APS-CD) and 5<sup>th</sup> Seminar of Integrated Pest Management in Non-traditional Export Crops held in Guatemala June 17-19, 2002.

Momol, T. 2006. Communication and Data Network Component of the IPDN. IPM CRSP International Plant Diagnostic Network (IPDN) Stakeholder Meeting, Antigua, Guatemala, June 28, 2006.

Momol, T. 2006. *Ralstonia solanacearum*, current diversity and management. IPM CRSP International Plant Diagnostic Network (IPDN) Training on New and Emerging Pathogens, Antigua, Guatemala, June 29, 2006.

Montoya, M.M., D. Dardón, L. Calderón, R. Edwards. 2001. Evaluation of the Portable Sticky Trap "torito" as Part of an Integrated Management Program for Whiteflies in Tomato. Presented at the IV Seminar: Integrated Pest Management in Non-Traditional Export Crops, Guatemala City, Guatemala, June 7-9, 2001.

Morales, H. and B. Ferguson. Alternatives to chemical pesticides. Escuela Primaria, Xepatan, Patzun, Chimaltenango.

Morales, H. Cultural control and participatory research: the basis for sustainable agriculture. Centro Maya/Universidad de San Carlos de Guatemala, Santa Elena, Peten.

Morales, H. Pest control and soil management in the Guatemalan highlands: understanding traditional agricultural practices. Second IPM Conference, July 11-12, 1996. Universidad Rafael Landívar, Guatemala.

Morales, H. Traditional Mayan soil practices as a tool for integrated pest management. University of Michigan, Tropical Ecology Group, Nov 1995

Morales, H. What farmers know about pest control in the Guatemalan highlands. University of Michigan, New World Agriculture and Ecology Group. Oct. 1994.

Morales, M., D. Dardón, L. Calderón, R. Edwards, G. Sánchez. 2000. Biofumigation as Soil Amendment and Method of Soil Decontamination for the Integrated Pest Management of Tomato in Sanarate, Guatemala, 2000. Presented at the IV IPM CRSP Seminar: Integrated Pest Management in Non-Traditional Export Crops held in Guatemala City, June 7 and 8, 2001

Morales, M., D. Dardón, L. Calderón and R. Edwards. 1998. Integrated management of whitefly in tomato, at El Progreso, Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Morales, M., D. Dardón, L. Calderón and R. Edwards. 1998. Use of plastic mesh (antivirus clothing) for the integrated management of whitefly in tomato at El Progreso, Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Morales, M., D. Dardón, L. Calderón, C.R. Edwards. 1999. Use of Plastic Mesh (antivirus clothing) for the Integrated Management of White Fly (*Bemisia tabaci*) in Tomato, El Progreso, Guatemala, 1997-1998. Presented at the Central American Cooperative Project for the Improvement of Food Crops (PCCMCA) XLV Meetings in Guatemala

Morales, M., D. Dardon, L. Calderon, R. Edwards. 2002. "Effect of using moving trap (torito), on whitefly populations and virosis in tomato, El Progreso, Guatemala.". Presented at the 42<sup>nd</sup> Annual Meeting of the

American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Nolasco, J. and J. Sandoval. 2003. “Non-chemical alternatives to control plagues in export crops.” Presentation at the AGEXPRONT Conference, November 2003, Guatemala City, Guatemala.

Orellana-Polanco, A.D., H.E. Carranza, D.E. Dardón-Avila, L.F. Calderón- Bran and S.Weller. 1998. Evaluation of Baculovirus sprayings for the management of lepidopteran pests in broccoli, Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Orellana, A.D., H.E. Carranza, D.E. Dardón, L.F. Calderón and S. Weller. 1998. Evaluation of entomopathogenic fungi and entomophagous nematodes for white grub (Coleoptera: Scarabaeidae) management in broccoli fields in Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Palmieri, M., L. Matheu, M. Orozco, L. Pineda, M. E. Méndez and G. Sánchez. 1998. Whiteflies and geminivirus identification and monitoring in Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Palmieri, M., L. Vergara, G. Sánchez, W. Parrott and L. Deom. 1998. Transformation of local and Hawaiian type papaya for resistance to papaya ringspot virus (PRV-p). In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Palmieri, M., M. Mendez, L. Mejia, L. Pineda, M. Orozco, L. Lopez, J. Brown. 2002. “Studies of whiteflies, *Bemisia tabaci* and *Trialeurodes vaporariorum*, in different regions of Guatemala”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Polanco, A.O., H.C. Bazini, S. Weller and D.D. Avila. 1998. Evaluation of Entomopathogenic Fungi and Entomophagous Nematodes for the Control of White Grub (Coleoptera: Scarabaeidae) in Broccoli Fields in Guatemala. XLVI PCCMCA (Central American Cooperative Project for the Improvement of Food Crops) Meeting in Nicaragua, March – April, 1998.

Ralda-Mezger, C. J., M. Palmieri, G. Sánchez and Stephen C. Weller. 1998. Identification of the causal agent of bacterial diseases in melon. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Rivera, J.M., J. Dueñas, J.C. Melgar, J. Diaz, R. Gergerich. 2002. “Identification of viral diseases occurring on Solanaceous and Cucurbitaceous vegetables in selected regions of Honduras”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Roca de Doyle, M.M., E. Bermeo, E. Aguilar, A. Rueda, J. Brown, D. Maxwell, P. Jones, R. Martin. 2002. “Viral infections identification in the main horticultural crops and weeds in the three main regions of Honduras (1999-2002)”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Salazar, H., M. Zeiss, M. Bustamante, M.M. Doyle, and O. Duarte. 1998. Evaluation of fungicides against anthracnose (*Colletotrichum gloeosporioides*) in passion fruit and survey of its fungal pathogens in Olancho, Honduras. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

- Sánchez, G. and R. N. Williams. 1998. Evaluation of *Phytoseilus persimilis* as biocontrol for tetranychid mites in raspberries. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.
- Sanchez, G.E. and R.N. Williams. 1995. Estrategias del MIP: Control Quimico. First IPM CRSP Conference, June 1-2, 1995. Universidad del Valle, Guatemala.
- Sanchez, G.E. and R.N. Williams. 1996 Assessment of insect pests and diseases found in bramble plantations in Guatemala. Second IPM Conference, July 11-12, 1996. Universidad Rafael Landivar, Guatemala.
- Sandoval, J. L., G. Sánchez, G. Sullivan and S. Weller. 1998. Integrated pest management of snow pea and sweet pea (*Pisum sativum*) in Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.
- Sandoval, J.L. 2002. “Evaluation of eleven treatments to control leaf miner (*Liriomyza huidobrensis* B.) in snow pea (*Pisum sativum* L.) in Tecpan, Chimaltenango”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.
- Sandoval, J.L., G. Sánchez, S. Weller. 2001. Organic production of snow peas (*Pisum sativum* L.) at Sololá in Guatemala. Presented at the IPM CRSP IV Seminar in Integrated Pest Management of Non-Traditional Export Crops, held in Guatemala City, June 7 and 8, 2001.
- Sandoval, J.L., G.E. Sanchez, A. Hernandez, L.F. Calderon, S. Weller. 2002. “Evaluation of eleven treatments to control leaf miners (*Liriomyza huidobrensis* B.) in snow pea (*Pisum sativum* L.) in Tecpan, Chimaltenango, Guatemala”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.
- Sandoval, J.L., G.E. Sanchez, E.R. Santizo, R. Edwards. 2002. “Demonstration plots of integrated crop management (ICM) in snow pea (*Pisum sativum* L.) as a training tool in field days”. Presented at the 5<sup>th</sup> Seminar on Integrated Pest Management in Non-Traditional Export Crops held in Antigua, Guatemala June 17-19, 2002.
- Sandoval, J.L., G.E. Sanchez, E.R. Santizo, R. Edwards. 2002. “Effect of seven low toxicity insecticides on the damage caused by thrips to snow pea (*Pisum sativum* L.) pods”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.
- Sandoval, J.L., G.E. Sánchez, G. Sullivan, S. Weller, C.R. Edwards. 2001. Effect of 8 Planting Distances on Snow and Sweet Pea Yields in the Guatemalan Highlands. Presented at the IPM CRSP IV Seminar in Integrated Pest Management of Non-Traditional Export Crops, held in Guatemala City, June 7 and 8, 2001.
- Sandoval, J.L., G.E. Sanchez, R. Edwards. 2002. “Agricultural extension used as a tool to enhance snow pea (*Pisum sativum* L.) export quality in Guatemala”. Presented at the 5<sup>th</sup> Seminar on Integrated Pest Management in Non-Traditional Export Crops held in Antigua, Guatemala June 17-19, 2002.
- Sierra, O., D. Dardon, R. Edwards. 2002. “Factibility of producing fruit fly-free guava (Thailand’s variety) in Guatemala”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

- Sierra, O., D. Dardon, R. Edwards. 2002. "Factibility of producing star fruit (Miss variety) in Guatemala". Presented at the IPM CRSP 5<sup>th</sup> Seminar on Integrated Pest Management in Non-Traditional Export Crops held in Guatemala during June 2002.
- Solis F., D. Dardón and S. Weller. 1998. Detection of native parasitoids for the biological control of leaf miner fly (Diptera: Agromyzidae: *Liriomyza huidobrensis*), in snow pea. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.
- Solis, F., D. Dardón and S. Weller. 1998. Evaluation of insecticide application hours for leaf miner management in snow pea (*Liriomyza huidobrensis*). In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.
- Solis, F., D. Dardón and S. Weller. 1998. Evaluation of the entomopathogenic fungi *Metarhizium anisopliae* and *Beauveria bassiana* as biological control of leaf miners (Diptera: Agromyzidae: *Liriomyza huidobrensis*) in snow pea (*Pisum sativum*). In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.
- Solis, F., D. Dardón, L. Calderón, R. Edwards, R.C. Cruz, G. González, M.G. González . 2001. Design of Bioclimatic Models for Leaf Miner (*Liriomyza huidobrensis*) and Ascochyta Spot (*Ascochyta* sp) in Snow Pea (*Pisum sativum*) in Chimaltenango Guatemala, 2000. Paper presented at the IV IPM CRSP Seminar: Integrated Pest Management in Non-Traditional Export Crops, held in Guatemala City, Guatemala on June 7-9, 2001.
- Solis, F., D. Dardón, L. Calderón, R. Edwards, R.C. Cruz, G. González, M.G. González. 2001. Design of a Bioclimatic Model for Diamond Back Moth (*Plutella xylostella*) in Broccoli (*Brassica oleracea* var. *italica*) in the Valley of Chimaltenango, Guatemala 2000. Presented at the IV Seminar: Integrated Pest Management in Non-Traditional Export Crops, Guatemala City, Guatemala, June 7-9, 2001.
- Solis, F., D. Dardon, L. Calderon, R. Edwards. 2002. "Determination of climatic factors in the development of diamond back moth (*Plutella xylostella*) in broccoli (*Brassica oleracea* var. *italica*). Chimaltenango, Guatemala 2001". Presented at the 5<sup>th</sup> Seminar on Integrated Pest Management in Non-Traditional Export Crops held in Guatemala, June 17-19, 2002.
- Solis, F., D. Dardón, R. Ixcot and S. Weller. 1998. Effects of trap placement and colors as trapping characteristics for leaf miners (Diptera: Agromyzidae: *Liriomyza huidobrensis*) and thrips in snow peas. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.
- Solis, F., D. Dardón, V. Sanai and S. Weller. 1998. Effect of "EPA" labeled fungicides on the control of *Leptosphaerulina* sp. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.
- Solis, F., D. Dardon. 2002. "Evaluation of insecticides for control of Thrips in onion". Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.
- Solis, F., D. Dardon. 2002. "Evaluation of organic fertilization with Bocashi against chemical fertilization to the soil in snow pea". Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.
- Solis, F., L. Calderon, R. Edwards. 2002. "Evaluation of mixtures of biofumigant compounds from organic materials on the control of weeds and nematodes in horticulture 2002". Presented at the 42nd Annual



## Publications/Products List

Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Solís, F., S. Weller, R. Edwards and D. Dardón. 1998. Evaluation of *Metarhizium anisopliae* and *Beauveria bassiana* as Biological Control of *Liriomyza huidobrensis* in Snow Pea. XLVI PCCMCA (Central American Cooperative Project for the Improvement of Food Crops) Meeting in Nicaragua, March – April, 1998.

Solórzano, R. and M. Chinchilla. 1998. Comparative analysis of three organic and three conventional producers with emphasis on agricultural pest management of snow pea (*Pisum sativum*) at the Department of Chimaltenango, Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Student Presentation. 1998. Two anthropology students from Del Valle University, who are members of ESTUDIO 1360, delivered a presentation at the V Conference of the Forum of Latinoamerican Students of Anthropology, Archaeology and History, on September 7-12, 1998, at the Escuela Nacional de Antropología e Historia, Mexico City. The title of the presentation was “Farmers Perceptions of Socioeconomic Impacts of NTAEs in a Community in the Guatemalan Highlands”.

Sullivan, G.H. 2002. “IPM CRSP in NTAE Crops Leads to Sustainable Trade for Developing Countries”. Presented at the 42nd Annual Meeting of the American Phytopathological Society – Caribbean Division and 5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, Guatemala, June 17-19, 2002.

Tevalán, B., L. Asturias de Barrios and G. Sullivan. 1998. Case study: Small snow pea producers in Guatemala. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Tolin, S. 2006. Infrastructure standards for “ideal” Plant Disease Diagnostic Labs. IPM CRSP International Plant Diagnostic Network (IPDN) Stakeholder Meeting, Antigua, Guatemala, June 28, 2006.

Tolin, S. 2006. Serological approaches of plant virus ID. IPM CRSP International Plant Diagnostic Network (IPDN) Training on New and Emerging Pathogens, Antigua, Guatemala, June 29, 2006.

Vergara, L. S., M. Palmieri, G. Sánchez and S.C. Weller. 1998. Effect of eight anti-bacterial chemicals on the *in vitro* growth of *Pseudomonas syringae* pv *lachrymans*, a melon pathogen. In the IPM CRSP – Guatemala III Seminario: Integrated Pest Management in Non-Traditional Export Crops, 30 September – 1 October 1998, Guatemala City.

Weller, S. C. 1999. AGRITRADE presentation. Guatemala City, Guatemala. December 1999.

Williams, R.N. Small fruit and vegetable IPM for the Guatemalan Highlands. Entomology Seminar Series. Oct. 25, 1996. Ohio State Univ., Columbus, Ohio.

### **Honduras**

IPM CRSP (person unk). 2006. Effect of the orientation, number and type of nozzle of the spraying equipment used for the control of *Thrips tabaci* in onions with pesticides. Presented at FHIA during the Annual Review of the Horticulture Program in July 28, 2006. Fifty eight participants (FHIA staff and some growers) attended to the event.

### **India**

Bhanupriya, M., P. Sreenivasulu, Z. Usha, and K.S. Ravi. 2006. Biological and molecular characterization of tospovirus isolates from India. Oral presentation at International Symposium on Management of Vector-Borne Viruses at ICRISAT, Patancheru, Andhra Pradesh from 7-10<sup>th</sup> Feb. 2006.

## Publications/Products List

Bhanupriya, M., P. Sudarasana, Z. Usha, and K.S. Ravi. 2006. Characterization of Watermelon bud necrosis virus from Maharashtra. Poster presentation at International Symposium on Management of Vector-Borne Viruses at ICRISAT, Patancheru, Andhra Pradesh from 7-10<sup>th</sup> Feb. 2006.

Mohankumar, S., T. Thiyagarajan, P. Yasodha, M. Murugan, K. Angappan, V. Balasubramani, G. Amutha, B. Preetha, M. Boominathan, P. Karuppuchamy, V. Prakasam, P. Balasubramanian, E. I. Jonathan, R. Samiyappan, E. A. Heinrichs and Ed Rajotte. 2010. Ecology, Population Variation and Management of Whiteflies and Thrips Infesting Vegetable Crops. Paper Presented during the Conference on "Whitefly and Thrips Transmitted Viruses," University of Delhi-South Campus, New Delhi, August 27-28.

Naidu, R.A., K.S. Ravi, S. Adkins and D.J. Riley. 2006. Partnerships for Progress: India-US Collaboration for Integrated Management of Thrips-borne Tospoviruses in Vegetable Cropping Systems. Presentation at: Interactive Workshop on Plant Molecular Virology, February 11-12, 2006, Indian National Science Academy, New Delhi, India. (Sponsored by USAID, Indo-US Science & Technology Forum and Department of Biotechnology, Government of India).

Ravi, K.S., M. Bhanupriya, S. Poojari, S. Kunkalikal, U. Zehr, D.G. Riley, S. Adkins, and R.A. Naidu. 2007. Current status of tospoviruses in vegetable cropping systems in India. 2007 American Phytopathological Society Annual Meeting, July 28-August 1, 2007. San Diego, CA.

### Indonesia

Tanzo, I.R. 2006. Gender issues in IPM. Report presented at the IPM CRSP Meeting. 7-11 August. Ciloto, Indonesia.

### Jamaica

Bohac, J. R., D. M. Jackson, and D. Seal. 2001. The development of sweetpotato germplasm with resistance to multiple pests for different environments and markets. Paper presented at National Sweetpotato Collaborators Meeting, January 27-31, 2001, Ft. Worth, Texas.

Bohac, J. R., D. M. Jackson, J. K. Peterson, and H. F. Harrison. 2002. Development of new sweetpotato breeding lines with resistance to insects and other pests from the USDA program. Paper presented at National Sweetpotato Collaborators Meeting, 2 – 3 February, 2002, Kissimmee, Florida. (Presented by D. M. Jackson).

Bohac, J. R., D. M. Jackson, R. M. Story, M. J. Sullivan, J. D. Mueller, J. K. Peterson, J. Lawrence, N. E. Smit, and B. Odongo. 1998. Sweetpotato: a model for development of vegetable crops with multiple resistance to insect pests. Joint Meeting of XXV<sup>th</sup> Internat. Horticulture Congress & Internat. Soc. Hort. Sci., Aug. 2-7, 1998, Brussels, Belgium.

Bohac, J. R., J. K. Peterson, D. M. Jackson, H. F. Harrison, and M. E. Snook. 2001. Approach to selection of pest resistant sweetpotato breeding lines through identification and quantitation of biochemical resistance compounds. Internat. Symp., Sweetpotato, Food and Health for the Future, Universidad Nacional Agraria La Molina, Lima, Peru, 26-29 November 2001 (Presented by D. M. Jackson).

Bohac, J.R., 1996. "Selection for sweetpotato host plant resistance to weevil and soil insects" International Potato Center (CIP), Lima, Peru.

Clarke-Harris D.O. 2001. Highlights of IPMCRSP Caribbean Site 1994-2001. presented at External Evaluation IPMCRSP Caribbean Site June 3-8, 2001.

Clarke-Harris D.O. 2001. Overview of Gall Midge Research Activities, presented at In-country Review and Planning Meeting of the Caribbean Site, March 30, 2001.

## Publications/Products List

Clarke-Harris D.O. 2001. Overview of Gall Midge Research Activities, presented at External Evaluation IPMCRSP Caribbean Site June 3-8, 2001.

Clarke-Harris D.O. 2001. Overview of IPM CRSP Activities of the Caribbean Site (Callaloo and Hot Pepper). presented at In-country Review and Planning Meeting of the Caribbean Site, 2001, March 30, 2001.

Clarke-Harris D.O. 2001. Overview of IPM CRSP Activities of the Caribbean Site (Callaloo and Hot Pepper). presented at External Evaluation IPMCRSP Caribbean Site, June 3-8, 2001.

Clarke-Harris, D. 2002. Development of an IPM model: the callaloo example in Jamaica. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Clarke-Harris, D. 2002. Implementing a sequential sampling plan in the Caribbean. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Clarke-Harris, D.O. 2000. Overview of IPM in the Region. Presentation at: Workshop on Integrated Pest Management of Sweetpotato, November 8-9, 2000, St. John's, Antigua

Clarke-Harris, D.O. 2000. Overview of IPM in the Region. Presentation at: Workshop on Integrated Pest Management of the West Indian Sweetpotato Weevil, *Euscepes postfasciatus* Fairmaire, in St Vincent and the Grenadines, on November 20-21, 2000, in Dumbarton, St Vincent

Clarke-Harris, D.O. 2000. Overview of IPM in the Region. Presentation at: Workshop on Integrated Management of the Sweetpotato Weevil, *Cylas formicarius* L., March 21, 2001, Nevis.

Clarke-Harris, D.O. and F.D. McDonald. 2000. The impact of the development on a hot pepper industry in Jamaica and the Caribbean Region with particular reference to Integrated Pest Management of hot pepper. Paper presented at Seminar "Environmentally Friendly Agricultural Practices", Walkers Wood, St Ann, December 7, 2000.

Clarke-Harris, D.O. and S. J. Fleischer. 1998. Identification Of Major Pests And A Sampling Plan For Lepidoptera Larvae In *Amaranthus viridis* (Callaloo) In Jamaica. Paper presented at the 34 th Caribbean Food Crop Society Meeting, Holiday Inn Sunspree Resort, Montego Bay Jamaica, July 12-18, 1998.

Dalip, K.M. 2000. Major pests of sweetpotato. Presentation at Workshop on Integrated Pest Management of Sweetpotato, November 8-9, 2000, St. John's, Antigua.

Dalip, K.M. 2000. Major pests of sweetpotato, *Ipomoea batatas* L. Presentation at Workshop on Integrated Pest Management of the West Indian Sweetpotato Weevil, *Euscepes postfasciatus* Fairmaire, in St Vincent and the Grenadines, on November 20-21, 2000, in Dumbarton, St Vincent.

Dalip, K.M. 2000. Sweetpotato pests damage rating. Presentation at Workshop on Integrated Pest Management of the West Indian Sweetpotato Weevil, *Euscepes postfasciatus* Fairmaire, in St Vincent and the Grenadines, on November 20-21, 2000, in Dumbarton, St Vincent.

Dalip, K.M. 2001. Integrated Pest Management: General principles and strategies used against the sweetpotato weevil, *Cylas formicarius*. Presentation at Workshop on Integrated Management of the Sweetpotato Weevil, *Cylas formicarius* L., March 21, 2001, Nevis.

Edwards, C. 1994. The Role of IPM in Sustainable Agriculture. Nuclear Center, the University of the West Indies, Mona, Jamaica.

Edwards, C. 1999-2000. "The potential of the use of vermicomposting for increasing crop yields and controlling crop pests and diseases." Seminar at CARDI Jamaica.

## Publications/Products List

Edwards, C. 2000-2001. "The potential of the use of vermicomposting for increasing crop yields and controlling crop pests and diseases." Seminar at CARDI Jamaica.

Edwards, C. 2001-2002. "The assessment of effects of pesticides on soil-inhabiting invertebrate populations, particularly earthworms." Seminar.

Edwards, C.A., Dionne Clarke-Harris, Frank McDonald and Janet Lawrence. 1999. The use of microcosms and terrestrial model ecosystems in assessing the effects of pesticides on soil ecosystems. Seminar at CARDI attended by CARDI, MINIAG, RADA and UWI staff.

Fery, R. L. 1998. Genetic analysis and assessment of southern root-knot nematode resistance in hot pepper (*Capsicum chinense*). National Pepper Conference, San Antonio, TX, October 13-15, 1998.

Fleischer, S.J. 2002. A historical perspective of threshold-based IPM. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Fleischer, S.J. 2002. A review of insecticide and biorational chemistries, and materials currently available. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Fleischer, S.J. 2002. Development of sequential sampling. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Fleischer, S.J. 2002. Exclusion tactics. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Fleischer, S.J. 2002. Measurement, monitoring, and management of pesticide resistance. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Fleischer, S.J. 2002. Pests in Northeastern U.S. (*Pieris rapae*, *Trichoplusia ni*, thrips, cabbage maggot). Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Fleischer, S.J. 2002. The sampling unit, and fitting the sampling unit to a frequency distribution model. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Fleischer, S.J. 2002. Web/GIS for regional monitoring networks. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Haenchen, C., F. Eivazi and J. Lindsay. 1997. Increasing phosphorus availability to *Capsicum chinense* Jacq. in tropical soils. 11<sup>th</sup> World Fertilizer Congress, Gent, Belgium, Sept 7-13.

Hamilton, S., G. Schlosser, T. Schlosser. 1999. Social And Gender-Related Issues That Affect IPM Adoption. Caribbean Planning workshop – Year 6 and beyond at USDA vegetable lab, Charleston, June 28-29, 1999.

Harrison, H. F., Jr. and D. M. Jackson. 2004. Investigation of the potential use of plant breeding approaches to improve weed management in sweetpotato. Paper presented at National Sweetpotato Collaborators Meeting, Jan. 23-25, 2004, Baton Rouge, LA.

Jackson, D. M. and H. F. Harrison, Jr. 2004. Effects of a killed-cover crop mulch on soil insect pests of sweetpotatoes. Paper presented at National Sweetpotato Collaborators Meeting, Jan. 23-25, 2004, Baton Rouge, LA.

## Publications/Products List

Jackson, D. M. and J. P. Peterson. 1997. Sublethal effects of resin glycosides from sweetpotato skins on larvae of the diamondback moth. 43<sup>rd</sup> Annu. Meet. S. C. Entomol. Soc., Nov. 6-7, 1997, Florence, S. C.

Jackson, D. M., J. Lawrence, L. McComie, J. R. Bohac, C. Edwards, and B. Nault. 1999. Integrated pest management (IPM) of major pests affecting sweetpotato in the Caribbean. Presentation made at IPM CRSP Caribbean Site: IPM Systems Development, Planning Meeting – Year 7 and beyond, June 27-30, 1999, Charleston, SC.

Jackson, D. M., J. R. Bohac, K. M. Dalip, J. Lawrence, D. Clarke-Harris, L. McComie, J. Gore, D. McGlashan, P. Chung, S. Edwards, S. Tolin, and C. Edwards. 2001. Internat. Symp., Sweetpotato, Food and Health for the Future, Universidad Nacional Agraria La Molina, Lima, Peru, 26-29 Nov 2001.

Jackson, D. M., K. A. Sorensen, C. E. Sorensen, and R. Story. 2002. Monitoring *Diabrotica* beetles in sweetpotato with floral lures. Paper presented at National Sweetpotato Collaborators Meeting, Feb. 2-3, 2002, Kissimmee, Florida.

Jackson, D.M. 2000. Integrated pest management strategies in sweetpotato production. Presentation at Workshop on Integrated Pest Management of Sweetpotato, November 8-9, 2000, St. John's, Antigua.

Jackson, D.M. 2000. IPM in Sweetpotato: Caribbean Regionalization. Invited feature address at Caribbean Agricultural Technology Conference (CATC), Caribbean Integrated Pest Management Network (CIPMNET), and Caribbean Biosystematics Network (CARINET), August 17-18, 2000, Kingstown, St. Vincent.

Jackson, D.M., J.R. Bohac, J.K. Peterson, and J.D. Mueller. 2000. Development of multiple pest resistance in sweetpotato germplasm. Invited symposium presentation at 14<sup>th</sup> Biennial Meeting, International Plant Resistance to Insects, February 28-March 2, 2000, Ft. Collins, Colorado.

Lawrence, J., S.J. Fleischer and J. Bohac. 1998. Integrated Pest Management of the Sweetpotato Weevil: A pilot study in South Central Jamaica. 34<sup>th</sup> Annual Caribbean Food Crops Society Meeting. Montego Bay, Jamaica, July 12 -18th, 1998.

Lawrence, J., S.J. Fleischer and J. Bohac. 1998. Integrated Pest Management of the Sweetpotato Weevil: A pilot study in South Central Jamaica. 34<sup>th</sup> Annual Caribbean Food Crops Society Meeting. Montego Bay, Jamaica, July 12 - 18th, 1998.

Lawrence, J.L. (1999) National strategic plan for the gall midge complex affecting hot peppers. Presentation made at IPM/Collaborative Research Support Project Consultative Caribbean Site Meeting USDA Laboratories, Charleston, SC.

Lawrence, J.L. 1997. Highlights of IPM CRSP research activities and results – Year IV. MINAM Research Review Workshop. Bodles Research Station.

Lawrence, J.L. 1997. Progress Report.

Lawrence, J.L. 1997. Review of IPM CRSP Research Activities. CARDI In-House Planning Workshop. Port of Spain, Trinidad.

Lindsay, J. 1998. Preliminary study into nutrient effect on plant growth, production and selected pests and disease incidence in Scotch Bonnet. The Joint JSAS/CFCS Annual conference, Montego Bay, Jamaica, July 12-18, 1998.

Lovett, B., J. Goldsmith, S.J. Fleischer, and L. Cui. 2003. Taxonomic placement of gall midges (Cecidomyiidae) affecting hot peppers in Jamaica. National Meeting of the Entomological Society of America. Cincinnati, OH.

## Publications/Products List

Luther, G.C. 2002. Biological Control of Diamondback Moth. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Luther, G.C. 2002. Cultural Control of Diamondback Moth. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Luther, G.C. 2002. Diamondback Moth Biology and Current Management Practices. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Luther, G.C. 2002. Diamondback Moth Pheromone. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

McComie, L. 2001. Integrated Pest Management - General Principles and Strategies and IPM against sweet potato pests. Presentation at Workshop on Integrated Pest Management of Sweetpotato, March 8-9, 2001, St. John's, Nevis.

McDonald F.D. 1999. Hot pepper business system: Towards a Caribbean hot pepper industry. Paper presented at Board of Governors Meeting, Sam Lords Castle, Barbados, December 15-17, 1999.

McDonald F.D. 1999. IPM requirements for increased marketing of fruits, vegetables ornamentals and root crops in the Caribbean paper presented at CAPHNET Workshop, Ministry of Agriculture, Grenada, November 11-12, 1999.

McDonald F.D. 1999. The Application of Plant Biotechnology techniques in the twenty-first century: Hot pepper- A model for the Caribbean Region. Paper presented at UWI/OAS/NCST Regional Conference, University of the West Indies Mona Campus, November 29-30, 1999.

McDonald F.D. 2001. CARDI's IPM Subprogramme vis-a-vis PROCICARIBE CIPMNET. presented at External Evaluation IPMCRSP Caribbean Site June 3-8, 2001.

McDonald, F.D. (1999). Background on pepper production technology in Jamaica and the Wider Caribbean. Presented at CARDI/MINAG/JEA workshop Development of marketing strategies for the hot pepper industry in Jamaica and the wider Caribbean. Kingston, Jamaica. October 23<sup>rd</sup>, 1999.

McDonald, F.D. (1999). Hot pepper, *Capsicum chinense*, as an important export crop of the Caribbean and the research approach required to develop its competitiveness. Presentation made at IPM/Collaborative Research Support Project Consultative Caribbean Site Meeting USDA Laboratories, Charleston, SC.

McDonald, S. 2000-2001. IPM of tobacco etch virus on hot peppers in Jamaica. Seminar presented to the Plant Pathology, Physiology and Weed Science Department at Virginia Tech.

McDonald, S.A. 2000. Management of aphid transmitted viruses in hot peppers in Jamaica. Student's Proposal Seminar, Department of Entomology, Virginia Tech, January 2000.

Myers, L. 1998. The effect of tobacco etch virus on the growth and yield of two *Capsicum chinense* pepper varieties. The JSAS/34<sup>th</sup> Annual conference of the CFCS, Montego Bay Jamaica, July 12-18, 1998.

Ogrodowczyk, J., D.J. Bosch, and D.R. Orden. 1999. "Policies Affecting Production Practices and Adoption of Integrated Pest Management for Jamaican Farmers in Ebony Park, Clarendon." Paper presented at the Southern Agricultural Economics Association Annual Meeting, Memphis, Tennessee, January 31-February 3, 1999.

Ravlin, F. W., H. Warren, and G. Seitz. International IPM at Virginia Tech and the Jamaica Experience. Department of Entomology, Blacksburg, Virginia. Date not given.

## Publications/Products List

Thies, J.A. 1996. Evaluation of regional sweetpotato entries and US Vegetable Laboratory advanced sweetpotato lines for reaction to root-knot nematodes, 1995. Annual meeting of the S-253 Regional Technical Committee (Managing Plant-Parasitic Nematodes in Sustainable Agriculture with Emphasis on Crop Resistance), Knoxville, TN, Oct 28-29, 1996.

Thies, J.A. 1996. Reaction of habanero and Scotch Bonnet-type pepper cultigens to *M. incognita* in a field test, Charleston, SC, 1995. Annual meeting of the S-253 Regional Technical Committee (Managing Plant-Parasitic Nematodes in Sustainable Agriculture with Emphasis on Crop Resistance), Knoxville, TN, Oct 28-29, 1996.

Thies, J.A. 1996. Relative effectiveness of various combinations of crop rotation schemes and different levels of host plant resistance in controlling root-knot nematodes in pepper plantings. Annual meeting of the NE-171 Regional Technical Committee (Design and Evaluation of New Approaches for the Management of Plant-Parasitic Nematodes), Ithaca, NY, October 3-4, 1996.

Thies, J.A. 1997. Management of *Meloidogyne incognita*: crop rotation and root-knot resistant pepper. Annual Meeting of the Society of Nematologists. Tucson, Arizona, July 19-23, 1997.

Thies, J.A. 1997. Resisitance of pepper to southern root-knot nematode (*Meloidogyne incognita*). The Second English Language International Nematology Symposium, Moscow, Russia, August 23-30, 1997.

Thies, J.A. 1997. Use of resistant peppers to manage southern root-knot nematodes: comparison of host plant resistance and methyl bromide soil fumigation. Annual Meeting of the American Phytopathological Society, Rochester, NY, August 9-13, 1997.

Thies, J.A. 1999. Expression of resistance to the southern root-knot nematode, *Meloidogyne incognita*, in *Capsicum chinense* and *C. annuum* at high temperatures. Annual Meeting of the American Phytopathological Society, August 6-12, 1999. Montreal, Canada.

Tolin, S., C. Pitts, S. Fleisher, J. Lawrence, D. Clarke-Harris, C. Edwards, and D. M. Jackson. 2001. Developing IPM packages in the Caribbean. Invited symposium presentation at 4<sup>th</sup> IPM CRSP Symposium, 16-19 May 2001, Virginia Tech University, Blacksburg, VA.

Tolin, S.A., McDonald, S.A., and Clarke-Harris, D. 2007. Integrated Management of *Tobacco etch virus* in Scotch Bonnet Pepper in Jamaica. Symposium Presentation in a symposium: IPM in a Global Context. Annual Meeting of the American Phytopathological Society, San Diego.

### Kenya

Waiganjo, M. M. , R. Amata, J. Mbaka, J. Kiritu, J. Gitonga, S. Wepukhulu, C. Gathambiri, M. Erbaugh, S. Miller, and D. Taylor. 2011. Onion production constraints and the farmer perspectives in the major onion growing areas in Kenya. Paper submitted for presentation during the Horticultural Association of Kenya Conference, Pwani University, December 7-10.

Waiganjo, M. M., M. Menza, C. Gathambiri, S. Kuria, P. Mueke, C. Njeru, R. Ssonko, M. Kleinhenz, S. Kyamanywa, S. Miller, and M. Erbaugh. 2011. High tunnel and grafting for increased tomato crop growth, yield and fruit quality among small holder farmers in Kirinyaga District, Kenya. Paper presented during the 6<sup>th</sup> Egerton University International Conference: Research and Expo, September 21-23.

Waiganjo, M. M., S. N. Kuria, C. K. Kambo, Njeru, S. Kyamanyua, M. Erbaugh, J. Kovach, and S. Miller. 2010. Sreenhouse Tomato Seedling Establishment for Profitable Pest Management among Smallholder Farmers in Kirinyaga District, Kenya. Paper presented during the 10<sup>th</sup> Horticultural Association of Kenya Workshop, AICAD, JKUAT, December 8-11.

Gitonga, K.J., M. M. Waiganjo, C. Gathambiri, M. Menza, R. Amata, S. Wepukhulu, M. Erbaugh, and D. Taylor. 2011. Market characterization of smallholder onion traders in Kenya: the case of Wakulima and

Karatina markets. Paper submitted for presentation during the Horticultural Association of Kenya Conference, Pwani University, December 7-10.

Kuria, S. N., L. Njuguna, W. J. Kahinga, C. N. Waturu, M. M. Waiganjo, Thurania, P. Mburu and R.G. Munene. 2010. Evaluation of yellow passionfruit cultivars (*passiflora spp.*) for resistance/tolerance to fusarium wilt *Passiflora oxysporium*. Paper presented during the Horticultural Association at Kenya Conference at AICAD, December 8-10.

Otipa M.J., E. Ateka, E. Mamati, D. Miano, R. Amata, M. Waiganjo, L. Wasilwa J. Mureithi, M. Erbaugh, and F. Qu. 2011. Passion fruit viruses: Current Status in production systems in Kenya. Paper presented during the IN JKUAT Conference, November.

### **Mali**

Caldwell, J.S. 1998. Merging farmer knowledge and priorities with scientific knowledge and research methods for participatory development of IPM technology for control of blister beetles and *Striga* parasitic weed in Mali, West Africa. Presented at 15th International Symposium of the the Association for Farming Systems Research, Pretoria, South Africa, 29 November-4 December 1998.

Cobb, J., P. Hipkins, D. Mullins, K. Moore. 2004. "Delivery of a quality assurance program for horticultural crops in Mali." Annual meeting of the Entomological Society of America, Salt Lake City, Utah, November, 2004.

Dem, S., J. Cobb, D. Mullins, H. Traoré, I. Sidibé. 2004. "Pesticide safety issues and pesticide residues in cotton-growing areas in Mali." Annual meeting of the Entomological Society of America, Salt Lake City, Utah, November, 2004.

Dembélé B., B. Traoré, C. Diarra, D. Hess. 1999; rapport du progrès: Sous groupe *Striga*, presented at the meeting of IER/ICRISAT.

Dembélé B., B. Traoré, C. Diarra, D. Hess. 2000; rapport du progrès: Sous groupe *Striga*. Presentation of results to the Program Committee of IER, June 20 to 30, 2000.

Dembélé, B., J. Westwood, B. Winkel, M. Kayentao, K.T. Gamby, H.T. Sissoko, A. Yeboah, J.S. Caldwell. 2000. "Strategies for Plant Transformation, and Applications of Transgenic Plants for Agriculture and Research". Seminar to the Sotuba Research Center (IER), July 5, 2000.

Dunkel, F. 2000. The events leading to establishment of the EQL and the progress toward being operational as a national and regional analysis laboratory. USAID Washington, Global Bureau.

Dunkel, F.V. 1996. Ethnopharmacology techniques for entomologists. 2.5 hour workshop presented to undergraduate students taking a core course in the College of Pharmacology, the University of Montana-Missoula. October 1996.

Dunkel, F.V. 1997. Using neem in a West African context. Colloquium presented at University of Stuttgart-Hohenheim, Institute of Organic Chemistry. 16 July 1997.

Dunkel, F.V. 1998. Integrating local natural products into IPM systems. Seminar presented at the Agricultural Experiment Station, Virginia State University. Petersburg VA. May 20, 1998.

Dunkel, F.V. 1998. Natural products for integrated pest management programs. Virginia State University. Petersburg VA. May 1998.

Dunkel, F.V. 1998. Adventures in Ethnopharmacology: from village elders to toxicology laboratory to commercialization. MSU. November 7, 1998.



## Publications/Products List

Dunkel, F.V. 1998. Natural products: a pesticide residue problem for integrated pest management programs? Virginia State University. Petersburg VA. October 1998.

Dunkel, F.V. 1998. Overcoming cultural and linguistic barriers to doing business. International Business Course presentation. Montana State University-Bozeman. March 1998.

Dunkel, F.V. 1998. The role of farmer-driven research in integrating local natural products into IPM systems. Seminar presented at the Agricultural Experiment Station, Virginia State University. Petersburg VA. October 25, 1998.

Dunkel, F.V. 1999. Solving the pesticide residue problem in Mali. Noon seminar 23 November 1999, US AID-Washington, Global Bureau.

Dunkel, F.V. 2000. The upscale conundrum. In symposium entitled "Natural products on the road to commercialization." National meetings of the Entomological Societies of American and Canada, December 2000. Montreal, Canada.

Dunkel, F.V., M. Broughton, and L. Klass. 2000. Adventures in ethnopharmacology/ethnobotany: From village elders to toxicology laboratory and commercialization. Presentation (2.5 hours) at Montana State University-Bozeman for the students and professor of course in Ethnopharmacology at University of Montana, Missoula. 7 October 2000.

Dunkel, F.V., R. Klein, M. Broughton, and S. Knodel. 2001. On the road to commercialization: Quality assurance, GLP, and natural product toxicology. Presentation (2.5 hours) at Montana State University-Bozeman (MSU) for students and professor of course in Ethnopharmacology at University of Montana, Missoula and for MSU students. 20 October 2001.

Dunkel, F.V., Z. Anderson, C. Smith, N. Sagara, E. Campbell, and R.E. Diggs. 2000. Research Externships in Mali: Determining economic feasibility of commercialization of neem products by small-scale farmers; testing of a visual system appropriate for use in Mali on small-scale farms to convey results of scientific research; and development of standard operating procedure system for the Environmental Quality Lab of Mali. 1.5 hour Powerpoint/multi-media presentation and open forum given in a campus-wide seminar about results of the 2000 IPM CRSP Mali Externship program at MSU. April 17, 2000. Bozeman, Montana.

Erbaugh, J. Mark, 1997. "Participatory Agricultural Research: Contributions to IPM in Mali and Uganda", in *Rural Sociology* 351, March, 1997.

Gamby K.T., R. Foster, M. Théra, D.M. Diarra, K.M. Moore, J. Caldwell, S.H. Traoré, A. Yeboah. 2001. Development of an Integrated Package for Management of Disease and Insect Pests on Green Beans. In June 2001, IPM CRSP results were presented to the IER Program Committee.

Gamby K.T., R. Foster, M. Théra, D.M. Diarra, K.M. Moore, J. Caldwell, S.H. Traoré, A. Yeboah. 2001. Development of an Integrated Package for Management of Disease and Insect Pests on Green Beans. IPM CRSP project results were presented to the Regional Users Committee (CRU) in March 2001.

Gamby, K. ., R. Foster, M. Théra, D.M. Diarra, K.M. Moore, J. Caldwell, S.H. Traoré, A. Yeboah. 2001. Development of an Integrated Package for Management of Disease and Insect Pests on Green Beans. IPM CRSP project results were presented to the Regional Technical Committee (CTR) in Sotuba in May 2001.

Gamby, K.T. 1997. IPM CRSP research using neem. Africa Entomological Symposium, July 1-4, 1997. Cape Town, South Africa.

Gamby, K.T. 2002. Alternative Management Strategies for Control of the Insect Complex on Green Beans in Mali. Communication oral à la radio World Radio Environment programme CTA 15 Août 2002.

## Publications/Products List

Gamby, K.T., R. Foster, J.S. Caldwell. 2002. Alternative Management Strategies for Control of the Insect Complex on Green Beans in Mali. Integrated Pest Management Research and Extension Symposium, Kampala (Ouganda) 8-12 September 2002

Hipkins, P., D. Mullins, J. Cobb. 2004. "An overview of pesticide quality assurance in Mali." National Pesticide Stewardship Alliance Annual Conference. Orlando, Florida. 2004.

Jenkins, D.A. and F. V. Dunkel. 1996. Fast actin' azadirachtin: a look at sustainable use of neem in the cowpea system. Student Competition (awarded second place for President's Prize), National Meetings of the Entomological Society of America, Louisville, KY.

Jenkins, D.A., F. V. Dunkel, and M. McClelland. 1997. Semi-subsistence technology and crop protection in Mali, West Africa. Presentation at the National Meetings of the Entomological Society of America in Nashville, Tennessee. December 1997.

McClelland, M. 1998. Appropriately solving technological problems posed by the use of neem kernel extract for IPM systems in Mali, West Africa. Presented at the Montana State University Undergraduate Scholars Symposium. April 23, 1998. Bozeman, Montana.

Moore, K., K. Touré, B. Dembelé 2000. The IPM CRSP Program Methodology, Atelier Régional de Formation sur la Gestion Phytosanitaire Intégrée et les Pesticides. Ségou, Mali, du 06 au 10 novembre 2000.

Moore, K.M. 2002 An Investigation of the Pesticide Market in Bamako, Mali. Presentation at the National Pesticide Stewardship Alliance Annual Meeting, Seattle, August 2002. Can be viewed on the web at: [http://www.npsalliance.org/2002\\_conf.htm](http://www.npsalliance.org/2002_conf.htm)

Mullen, J.D., D. Kebe, D.B. Taylor, and M. Fofana. 1998. "Long-Run *Striga* Control by Subsistence Farmers in Mali," presented at the American Agricultural Economics Association Annual Meeting, Salt Lake City, Utah, August 2-5, 1998.

Smith, C. and Z. Anderson. (F.V. Dunkel =mentor). 2000. Development and testing of a visual system appropriate for use in Mali on small-scale farms to convey results of scientific research. Slide presentation given in a campus-wide Conference on Undergraduate Research April 23, 2000. Bozeman, Montana.

Touré, K. 2000, Pest ecology and definition of IPM Atelier Régional de Formation sur la Gestion Phytosanitaire Intégrée et les Pesticides. Ségou, Mali, du 06 au 10 novembre 2000.

Touré, K., R. Foster, A. Traoré, M. Morant 2000, French bean IPM in Mali Atelier Régional de Formation sur la Gestion Phytosanitaire Intégrée et les Pesticides. Ségou, Mali, du 06 au 10 novembre 2000

Westwood, J. and R. Jones. 2000. Seminar: "Agricultural and Environmental Problems in Mali". J. Westwood discussed IPM CRSP research along with Dr. R. Jones (Virginia Tech Biology Dept./SANREM CRSP) at the Botany Seminar, Virginia Tech, October 13, 2000.

### Philippines

Alberto, R.T. 2001. Anthracnose of Onion. Lecture delivered at the City Agriculturist Office, San Jose City, Nueva Ecija.

Alberto, R.T., G. Galut, E.B. Gergon, C. Ravina, V.L. Judal, M. Casimero, E.C. Martin, F. Bajo, A. Baltazar and S.A. Miller. 1999. "Management of Soil-Borne Diseases in Rice-Vegetable Systems". 30<sup>th</sup> Annual Scientific Meeting and Convention, Pest Management Council of the Philippines, May 4-6, 1999. PhilRice, Munoz, Nueva Ecija.

Alberto, R.T., G. Galut, E.B. Gergon, C. Ravina, V.L. Judal, M. Casimero, E.C. Martin, F. Bajo, A. Baltazar and S.A. Miller. 1999. "The Soil-Borne Diseases in Rice-Vegetable Systems". 30<sup>th</sup> Annual Scientific Meeting

and Convention, Pest Management Council of the Philippines. May 4-6, 1999. PhilRice, Munoz, Nueva Ecija.

Alberto, R.T., G. Galut, E.B. Gergon, C. Ravina, V.L. Judal, M. Casimero, E.C. Martin, F. Bajo, A. Baltazar and S.A. Miller. 1999. "Antagonistic Effects of *Bacillus* sp. (LEP 118) Against Soil-Borne Pathogens in Rice-Vegetable Systems". 30<sup>th</sup> Annual Scientific Meeting and Convention, Pest Management Council of the Philippines. May 4-6, 1999. PhilRice, Munoz, Nueva Ecija.

Alberto, R.T., G. Galut, E.B. Gergon, C. Ravina, V.L. Judal, M. Casimero, E.C. Martin, F. Bajo, A. Baltazar and S.A. Miller. 1999. "Management of Soil-Borne Diseases in Rice-Vegetable Systems". 21<sup>st</sup> Annual Scientific Meeting. National Academy of Science and Technology. May 4-6, 1999. Manila Hotel, Manila, Philippines.

Alberto, R.T., G. Galut, E.B. Gergon, C. Ravina, V.L. Judal, M. Casimero, E.C. Martin, F. Bajo, A. Baltazar and S.A. Miller. 1999. "Bacterial Wilt of Eggplant Caused by *Ralstonia solanacearum*". Training for Agricultural Technicians and Farmer Leaders on Rice-Vegetable with Emphasis on IPM. August 2-6, 1999. PhilRice, Munoz, Nueva Ecija, Philippines.

Alberto, R.T., G. Galut, E.B. Gergon, C. Ravina, V.L. Judal, M. Casimero, E.C. Martin, F. Bajo, A. Baltazar and S.A. Miller. 1999. "Diseases of Onion and Eggplant in Rice-Vegetable Systems". Training for Agricultural Technicians and Farmer Leaders on Rice-Vegetable with Emphasis on IPM. August 2-6, 1999. PhilRice, Munoz, Nueva Ecija, Philippines.

Arida, G. S. 2001. IPM for tomato, eggplant, onion and garlic. Lecture delivered at the "Specialized Training Course on Rice and Rice-Based Crops Production for Muslim Trainers and Extension Workers" at PhilRice, Muñoz, Nueva Ecija, March 2001, attended by 28 extension workers from Mindanao.

Arida, G. S. and H. R. Rapusas. 2004. PhilRice-IPM CRSP Experience in Eggplant IPM. Presented during the Eggplant IPM Workshop held at Lizland Hotel, Undaneta City. April 20-21, 2004.

Arida, G. S., B.S. Punzal, A.V. Duca and E.G. Rajotte. 2004. Implementation of IPM Package for Insect Pests of Onion. Paper presented in the Asian Regional IPM Workshop. June 29-30, 2004. New World Renaissance Hotel, Makati City, Metro Manila, Philippines.

Arida, G.S., B.S. Punzal, C.C. Ravina Jr, E.G. Rajotte, and N.S. Talekar. 2001. Insecticide Applications Against Spodoptera Based on Trends in Sex Pheromone Trap Catches. Presented results of the year 2001 studies to members of onion growers (NOGROCOMA) on 20 July 2001.

Arida, G.S., B.S. Punzal, C.C. Ravina, G.E. Balagot, N.S. Talekar, and E. Rajotte. 2000. Evaluation of Pheromone Trap Catches as an Indicator for Timing of Interventions Against *Spodoptera* Species in Rice-Onion Systems. Lecture on a Training Program (September 2000)

Arida, G.S., E.R. Tiongco, B.S. Punzal, C.C. Ravina Jr, E.G. Rajotte and N.S. Talekar. 2001. Seasonal Abundance and Economic Importance of *Liriomyza trifolii* Burgess in Rice-Onion Cropping Systems. Results were presented and discussed with farmer members of a cooperative (NOGROCOMA), members of an NGO specializing in onion production, and with agricultural technicians in Bongabon during a meeting held on 20 July 2001.

Baltazar, A.M. 2002. IPM in Rice and Rice Cropping Systems: Experiences and Lessons Learned in Philippine Agriculture. Invited paper presented at the Eighth D.L. Umali Memorial Lecture Series. Sponsored by the National Academy of Science and Technology and the D.L. Umali Foundation Inc. Held at the SEARCA Auditorium, U.P. Los Banos campus, College, Laguna, Philippines. July 2002.

Baltazar, A.M., E.C. Martin, A.M. Mortimer, M.C. Casimero, S.R. Obien, and S.K. De Datta. 2000. Management and dynamics of purple nutsedge populations in rice-onion systems. Presented at the 31<sup>st</sup>

annual conference of the Pest Management Council of the Philippines held in Baguio City, Philippines in May 2000.

Baltazar, A.M., E.C. Martin, A.M. Mortimer, M.C. Casimero, S.R. Obien, and S.K. De Datta. 2001. Reducing *Cyperus rotundus* populations using stale-seedbed technique in rice-onion systems. 18th Asian-Pacific Weed Science Society conference. Beijing, China. May 28-June 2, 2001.

Baltazar, A.M., E.C. Martin, A.M. Mortimer, S.R. Obien and S.K. De Datta. 2000. Management and Dynamics of Purple Nutsedge (*Cyperus rotundus*) populations in Rice (*Oryza sativa*) and Onion (*Allium cepa*) Rotation Systems. Paper presented at the 31<sup>st</sup> annual conference of the Pest Management Council of the Philippines held at Baguio City, Philippines, May 3-5, 2000.

Baltazar, A.M., E.C. Martin, M. C. Casimero, F.V. Bariaun, S.R. Obien and S.K. De Datta. 1999. Agro-ecological approaches to managing weeds in rice-onion cropping systems. Paper presented during the 30<sup>th</sup> Pest Management Council of the Philippines held at the Philippine Rice Research Institute, Maligaya, Munoz, Nueva Ecija 4-6 May 1999.

Caasi-Lit, M. T. 2000. "Beneficial and Harmful Insects Affecting Eggplant, Tomato, Ampalaya, Okra and Pepper". Lectures delivered during the Season-Long Trainor's Training on Integrated Crop Management for Off-Season in Vegetables sponsored by the Agricultural Training Institute of the Department of Agriculture and Provincial Agricultural Office of Bulacan, held at Bulacan National Agricultural State College (BNASC) ON 5 Sept. 2000.

Caasi-Lit, M. T. 2000. "Eggplant Resistance against the Leafhopper *Amrasca biguttula* (Ishida) in the Philippines". Paper presented during a seminar at the Department of Entomology, Kansas State University, Manhattan, Kansas, USA. 14 July 2000.

Caasi-Lit, M. T. 2000. "Insect Pests of Solanaceous Crops and Their Control". Lecture delivered during the International Training Course on Plant-Soil Relationships and Plant Protection, Institute of Plant Breeding. UP Los Baños, College, Laguna. 6 Sept. 2000.

Casimero, M. C. and H. R. Rapusas. Village level integration and training program. Paper presented during the Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, June 29-30, 2004, New World Renaissance Hotel, Makati City.

Casimero, M.C., A.M. Baltazar, and S.R. Obien. 2001. Agroecological strategies to reduce weed populations in rainfed rice-onion systems. Asian Agriculture Congress. Manila, Philippines. April 24-27, 2001.

Casimero, M.C., A.M. Baltazar, J.S. Manuel, S.R. Obien, and S.K. De Datta. 2000. Morphologic and genetic variations in lowland and upland ecotypes of purple nutsedge in rainfed rice-onion systems. (Best Paper Award). Presented at the 31<sup>st</sup> annual conference of the Pest Management Council of the Philippines held in Baguio City, Philippines in May 2000.

Casimero, M.C., A.M. Baltazar, J.S. Manuel, S.R. Obien, and S.K. De Datta. 2001. Population dynamics and growth of weeds in rice-onion cropping systems in response to chemical and cultural control methods. 18th Asian-Pacific Weed Science Society conference. Beijing, China. May 28-June 2, 2001. (Best Paper Award).

Casimero, M.C., E.C. Martin, A.M. Baltazar, S.R. Obien, and S.K. De Datta. 2000. Evaluation of tillage combined with chemicals for control of weeds in onion. Presented at the 31<sup>st</sup> annual conference of the Pest Management Council of the Philippines held in Baguio City, Philippines in May 2000.

Catudan, B., R. Relado, E. Gergon, and H. Rapusas. 2004. Assessment of pest management practices and problems on major vegetables grown in Mindanao. Paper presented during the Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, June 29-30, 2004, New World Renaissance Hotel, Makati City.

## Publications/Products List

- Cuyno, L., G. Norton and A. Rola. 2000. "Economic Analysis of Environmental Benefits of Integrated Pest Management: A Philippine Case Study", Selected paper presented at the XXIV Triennial Conference of the International Association of Agricultural Economists, Berlin, Germany, August 17, 2000.
- Gapud, V. P., R.T. Alberto, S.K. DeDatta, S.R. Obien, A. M. Baltazar, L.E. Padua, M.C. Lit, N. L. Opina, G.S. Arida, E.B. Gergon, M.C. Casimero, G.W. Norton, S.A. Miller and E. G. Rajotte. 2000. IPM In Rice-Vegetable Systems: The IPM CRSP Experience. Plenary paper presented during the 31<sup>st</sup> annual Scientific Meeting of the Pest Management Council of the Philippines. May 3-6, 2000, Supreme Hotel, Baguio City.
- Gapud, V.P., S.R. Obien, G. Norton and E. Rajotte. 1998. Integrated Pest Management Collaborative Research Support Program (IPM CRSP). Presented during the 11<sup>th</sup> National Rice R&D Program Review and Planning Workshop, 3-5 March 1998. PhilRice.
- Gergon, E.B. 1999 & 2001. Basic concepts in plant pathology and disease management. Lecture given during the Season Long Training of Trainers on IPM on Onion, November 15, 1999 - March 22, 2001.
- Gergon, E.B. 1999 & 2001. Nematode diseases of rice and onion. Lecture given during the Season Long Training of Trainers on IPM on Onion, November 15, 1999 - March 22, 2001.
- Gergon, E.B. 2001. Nematode diseases of rice and onion. A lecture given during Training for Muslim technicians and farmer-leaders on rice and vegetables with emphasis on IPM, PhilRice, Muñoz, Nueva Ecija, March 11, 2001.
- Gergon, E.B. and S.A. Miller. 2000. Management of rice root-knot disease by rice hull burning. Pest Management Council of the Philippines Conference, Baguio City, May 3-5, 2000.
- Gergon, E.B. and S.A. Miller. 2000. Management of root-knot nematode in rice-onion cropping system. Seminar, UPLB Plant Pathology Department, February 16, 2000.
- Gergon, E.B. and S.A. Miller. 2000. Root-knot disease in rice-onion system and its management. 13<sup>th</sup> National Rice R and D Conference, PhilRice, Muñoz, Nueva Ecija, March 1-3, 2000.
- Malasa, R.B. and S.M. Roguel. 2002. Social impact assessment of IPM CRSP technologies. Annual conference of the Crop Science Society of the Philippines. Tagbilaran, Bohol. April 22-27, 2002.
- Martin, E.C., M.C. Casimero, A.M. Baltazar, S.R. Obien, and S.K. De Datta. 2000. Evaluation of rice hull burning combined with chemicals for control of weeds in onion. Presented at the 31<sup>st</sup> annual conference of the Pest Management Council of the Philippines held in Baguio City, Philippines in May 2000.
- Norton, G. and C. Mamaril. 2000. "Potential Impacts of the Gene Revolution in Asia", symposium discussion at the XXIV Triennial Conference of the International Association of Agricultural Economists, Berlin, Germany, August 16, 2000.
- Norton, G.W, J.D. Tjornhom, K.L. Heong, N.S. Talekar, and V.P Gapud. 1996. "Socioeconomic Characteristics and Pesticide Misuse in Philippine Vegetable Production", presentation to 1996 Workshop of the IPM CRSP, Kingston, Jamaica, May, 1996.
- Norton, G.W. 1996. "The IPM CRSP Asia Program", presentation to scientists at the National Agricultural Research Council, Katmandu, Nepal, February 5, 1996.
- Norton, G.W. and E. Rajotte. 1996. "Defining IPM: The First Step in Measuring Impacts", presentation to the National IPM Symposium, Washington, DC, February 28, 1996.
- Norton, G.W. and E. Rajotte. 1996. Economic Assessment of IPM: Keeping It Simple Yet Meaningful," presentation to the National IPM Symposium, Washington, DC, February 29, 1996.

## Publications/Products List

- Opina, N.L. 2001. Influence of Host Resistance and Grafting on the Incidence of Bacterial Wilt of Eggplant. Training on Rice-Eggplant/Okra Cropping Pattern held in Villasis, Pangasinan on September 5, 2001.
- Opina, N.L. R.T. Alberto, S.E. Santiago, R.L. Tiongco, S. Miller and R.G. Maghirang. 2001. Influence of cultural practices, host resistance and grafting on the incidence of bacterial wilt on eggplant. Oral paper presented during the 32nd Pest Management Council of the Philippines annual meeting held at DA-CSAC, Pili, Camarines Sur, May 2-4, 2001.
- Padua, L.E., A.C. Lapus, V.P. Gapud, C.V. Pile, B.E. Santiago, N.S. Talekar, V.F. Recta, and E.G. Rajotte. 1999. Potential of Nuclear Polyhedrosis Virus (NPV) and *Bacillus thuringiensis* (Bt) for *Spodoptera* Control in Yellow Granex Onion. Annual conference of the Pest Management Council of the Philippines, May 4-6, 1999 at PhiRice, Munoz, Nueva Ecija.
- Padua, L.E., A.C. Lapus, V.P. Gapud, C.V. Pile, B.E. Santiago, N.S. Talekar, V.F. Recta, and E.G. Rajotte. 1999. Potential of Nuclear Polyhedrosis Virus (NPV) and *Bacillus thuringiensis* (Bt) for *Spodoptera* Control in Yellow Granex Onion. Presented in collaboration with NOGROCOMA members on July 30, 1999 at PhilRice, Maligaya, Muñoz, Nueva Ecija.
- Padua, L.E., A.C. Lapus, V.P. Gapud, L.S. Sebastian, N.S. Talekar, K. Hoover, L.E.-Carlson and E.G. Rajotte. 2000. "NPV: Alternatibong Pamuksa ng Harabas ng Sibuyas," (NPV: An Alternative Control for the Common Cutworm, *S. litura* Infesting Onions.). Seminar held on September 7, 2000 in Palestina, San Jose, Nueva Ecija. Participants were officers, zone leaders and rice-onion farmers of Brgy. Palestina.
- Punzal, B. S., and G. S. Arida. Colonization and Movement of Beneficial Organisms in Rice, Vegetable and Other Non-Rice Ecosystem. Paper presented during the Pest Management Council of the Philippines 42<sup>st</sup> Anniversary and Annual Scientific Conference, L' Fisher Hotel, Bacolod City, Philippines, May 3-6.
- Ramos, J.M., A.M. Baltazar, E.C. Martin, M.C. Casimero, and S.K. De Datta. 2001. Selective postplant application methods of glyphosate in onion. 32nd conference of the Pest Management Council of the Philippines. Pili, Camarines Sur. May 2-5, 2001.
- Roguel S. M., R. Relado and R. Malasa. Social impacts of vegetable IPM technologies. Paper presented during the Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, June 29-30, 2004, New World Renaissance Hotel, Makati City.
- Roxas, A. C., M. G. Patricio, H. R. Rapusas and B. M. Shepard (2007). Host Range and Damage Assessment of Whiteflies in Rice-based Cropping System. Paper presented during the 38<sup>th</sup> Pest Management Council of the Philippines (PMCP) Annual Convention and Scientific Conference on March 20-23, 2007, Bohol Tropics Resort, Tagbilaran, Bohol.
- Shepard, B. M. 2006. Tosspoviruses in vegetables in the Philippines and Indonesia. Presented on behalf of Dr. Naidu Rayapadi at the IPM CRSP Workshop in Ciloto, Indonesia. August, 2006.
- Tanzo, I.R. 2000. Social Impacts of NPV Usage. Lecture delivered at an NPV seminar, held at San Jose, Nueva, 7 September 2000.
- Tanzo, I.R. 2006. Women in agriculture: The case of pesticide management. Report presented at the University of the Philippines at Los Banos in celebration of Women's Month. March. Laguna, Philippines.
- Tanzo, I.R. 2006. Women in pesticide management: Assumptions and Realities. Paper presented at the 37th Annual Scientific Conference of the Pest Management Council of the Philippines. 2-5 May. Davao City, Philippines.
- Tanzo, I.R. 2006. Women in Rice-Vegetables Pesticide Management. Paper presented at the 19th PhilRice Annual R&D Review. April. Philrice, Nueva Ecija.

Tanzo, I.R., V.P. Gapud, S.R. Francisco, K.L. Heong, S. Hamilton, G. Norton, and E. Rajotte. 1999. 'Gender Issues in Rice-onion Farming Systems'. Report presented at the NOGROCOMA and Bongabon Barangay Captains meeting on July 30, 1999 held at PhilRice, Muñoz, Nueva Ecija

### **South Asia**

Poster presented at the 5<sup>th</sup> International Conference on Biopesticides, New Delhi.

### **Southeast Asia**

Naidu, R.A., D.J. Riley, K.S. Ravi, C. Chaisuekeul and S. Adkins. 2006. Integrated Management of Thrips-Borne Tospoviruses in Vegetable Cropping Systems in South and Southeast Asia. 5th National Integrated Pest Management Symposium, April 4-6, 2006.

Naidu, R.A., S. Adkins, K.S. Ravi, P. Chiemsombat, R.K. Jain, H.S. Savithri, O. Gajanandana, V. Muniyappa and D.J. Riley. 2005. Epidemiology of tospoviruses in South and Southeast Asia: Current status and future prospects. VIII International Symposium on Thysanoptera & Tospoviruses, Asilomar Conference Grounds, September 11-15, 2005. Abstracts, page 71.

Xia, Y. 2006. Goals and objectives of IPM CRSP IT Database global theme for Southeast Asia. Southeast Asia IPM CRSP Regional Program Planning Meeting.

Weiler, L.F., A.V.C. Alcala, A.B. Estoy, H.R. Rapusas and X.H. Truong. 2009. Pathogenesis of Entomophthoran Fungi on Silverleaf Whitefly, *Bemisia argentifolii* Bellows & Perring. Poster presented during the PhilRice 23<sup>rd</sup> Anniversary and R & D Conference. PhilRice CES. March 17-19, 2009.

### **Posters:**

- Nabibigatan ka na ba? (on VAM)
- Magkakasing-gulang sila, may sakit lang ang iba (on Damping-off)
- Ganito ba ang sibuyas mo? (on Paltak or anthracnose or twister)
- Bulok ba ang inani mo? (on Baldrap = basal plate rot or bulb rot)
- Hindi ito basta-basta (Trichoderma)
- Napansin mo ba ang mga ito sa sibuyas mo? (on Harabas = armyworm and cutworm)
- Napasin mo ba ito sa dahon ng sibuyas mo? (on Jet = onion leafminer)
- Dahon ng sibuyas mo ba'y nagkakaganito? (on Hanip = Thrips)

### **Tajikistan**

Aitmatov, M., G. Bird, W. Pett and D. Baributsa. 2008. Development and Dissemination of IPM knowledge through Outreach and University Education Programs in Central Asia. In K. Maredia and D. Baributsa (eds). Integrated Pest Management in Central Asia. Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

Landis, D., M. Gardiner, A. Fiedler, A. Costamagna and N. Saidov. 2008. Landscape Ecology and Management of Natural Enemies in IPM Systems. In K. Maredia and D. Baributsa (eds). Integrated Pest Management in Central Asia. Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

Maredia, K. and D. Baributsa (eds). 2008. Integrated Pest Management in Central Asia. Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

Maredia, K. and D. Baributsa. 2008. Ecologically-based Participatory and Collaborative Research and Capacity Building in Integrated Pest Management in Central Asia Region. In K. Maredia and D. Baributsa (eds). Integrated Pest Management in Central Asia. Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

## Publications/Products List

Saidov, A., N. Saidov, V. Nazirov. 2008. Pest Management Practices and Strategies in Tajikistan. *In* K. Maredia and D. Baributsa (eds). Integrated Pest Management in Central Asia. Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

Saidov, N., A. Jalilov, P. Geraedts and F. Zalom. 2008. Pocket book "Tomato pest and disease" (in Tajik). Published 500 copies through funding from the National Agricultural Advisory System (SENAS) in Tajikistan.

Saidov, N., D. Landis and M. Bohssini. 2008. A History of Habitat Management in the Former USSR and the Commonwealth of Independent States and Current Research in Central Asia. 2007. *In* K. Maredia and D. Baributsa (eds). Integrated Pest Management in Central Asia. Proceedings of the Central Asia Regional IPM Forum, Dushanbe, Tajikistan, May 2007.

### Uganda

Adipala, E. 1998. Integrated management of groundnut insect pests and diseases. Presented at the Annual Review Workshop, IPM CRSP, Virginia, Tech, Blacksburg , 1998.

Adipala, E. 1999. Makerere University involvement in potato/sweet potato research: A historical perspective. Presented at a symposium in Kabale, Uganda, 24-27, February, 2000.

Adipala, E. 2000. East and Southern Africa Collaboration Research Initiative on Maize diseases and drought tolerance: A conceptual framework. Presented at the Regional Maize Planning Workshop, Chitedze, Malawi, 12-15 March 2000.

Adipala, E. 2000. Highlights of Grey leaf spot studies. Presented during the IPM CRSP planning workshop in Jinja, Uganda, 8-10 March, 2000.

Adipala, E. 2000. Progress on Cowpea Germplasm Evaluation in Uganda. Presented during the IPM CRSP Planning Workshop for the year 2000 in Jinja, Uganda, 8-10 March, 2000.

Adipala, E. 2000. Progress on Cowpea Germplasm Evaluation in Uganda. Presented during the IPM CRSP Planning Workshop for the year 2000, in Jinja, Uganda, September, 2000.

Adipala, E. 2000. Progress on development of integrated disease and pest management systems for cowpeas in eastern Uganda. Presented at the IPM CRSP planning workshop in Jinja, Uganda, 8-10 March, 2000.

Adipala, E. 2001. Farmer Participatory Evaluation of Cowpea Integrated Pest Management Technologies in Eastern Uganda. Two season data was presented during the IPM CRSP Annual Planning Workshop held on April 19-21, 2001 at Jinja, Uganda.

Adipala, E. Highlights of gray leaf spot research in Uganda. A presentation at IPM/CRSP Annual Planning Workshop held March 9- 12 at Jinja, Uganda.

Adipala, E., A.R Semana, J.M. Erbaugh, M. Amujal et al. 2002. Dissemination and adoption of IPM technologies. Forum Regional meeting (12<sup>th</sup> -16<sup>th</sup> Aug 2002).

Adipala, E., A.R Semana, J.M. Erbaugh, M. Amujal et al. 2002. Dissemination and adoption of IPM technologies. IPM International Conference (8<sup>th</sup> -12<sup>th</sup> Sept 2002).

Adipala, E., A.R Semana, J.M. Erbaugh, M. Amujal et al. 2002. Dissemination and adoption of IPM technologies. Graduate seminar at Makerere University Agricultural research institute Kabanyolo (31<sup>st</sup> -1<sup>st</sup> July 2002)

Adipala, E., A.R Semana, J.M. Erbaugh, M. Amujal et al. 2002. Dissemination and adoption of IPM technologies. IPM CRSP planning workshop in Jinja, 2002.



## Publications/Products List

- Adipala, E., H.L Warren, G. Epieru and J.P. Takan. 1998 Comparative performance of cv Igola-1 and other local groundnut cultivars for the control of rosette disease. The Third IPM CRSP Symposium, Blacksburg, Virginia, 15-16 May 1998.
- Adipala, E., J. Karungi, B. Bashasha, J. Mugisha, and C.E. Asekenye. 2002. Dissemination and adoption of integrated pest management package for groundnut production in eastern Uganda. IPM International Conference 8<sup>th</sup>-12<sup>th</sup> Sept, 2002: Kampala, Uganda
- Adipala, E., P. Nampala, M. Biruma, H. Warren and H. Wilson. 2001. Field assessment of cowpea germplasm for disease and pest resistance in Uganda. Fifth African Crop Science Conference, 22 - 26 October 2001, Lagos, Nigeria.
- Adipala, E., 2000. Update on development of IPM/IDM packages for cowpeas in eastern Uganda. Presented
- Agona J.A., S. Kyamanywa, F. Owera and H. Willson. 1999. Integrated On-Farm Cowpea Bruchid Management. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.
- Agona, J.A., S. Kyamanywa, E. Adipala, J. Nakkazi, M. Silim-Nahdy and H.R. Willson 2002. Field management of post-podding pests and bruchids on cowpeas using selected botanicals and synthetic insecticides. Paper presented during International Conference on IPM, 8-12<sup>th</sup> September 2002, Kampala, Uganda.
- Agona, J.A., S. Kyamanywa, M. Silim-Nahdy, H. R. Willson and F. Owera. Integrated management of bean bruchids in Kumi district. August 1999.
- Ahabwe P., G. Turiho, V. Kasenge, W. Ekere, E. Adipala, J.J. Hakiza, S. Namanda, R.M. Kakuhenzire, W. Wagoire, B. Lemaga, M. Olanya, R. El-Bedewy and D.Taylor. 2002. An economic assessment of integration of plant resistance and minimum fungicide use for management of potato late blight in Kabale, Southern Uganda. Paper presented at the Integrated Pest Management Conference for Sub-Saharan Africa, 8-12 September 2002, Kampala, Uganda.
- Akemo C., C. Ssekyewa, S. Kyamanywa, H. Warren and M. Erbaugh. 1999. Developing IPM Systems for Tomato in Central and Eastern Uganda. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.
- Akemo, M.C., C. Ssekyewa, S. Kyamanywa, E. Adipala, H. Willson, and M.Erbaugh. 2002. Developing IPM systems for tomato: A case study from Uganda. Integrated Pest Management Conference for Sub-Saharan Africa, September 8-12, 2002, Kampala, Uganda.
- Amujal, M., M. Erbaugh, A.R. Semana, and E. Adipala. 2002. Influence of farmer field schools on knowledge and awareness of cowpea IPM technologies in eastern Uganda. Integrated Pest Management Conference for Sub-Saharan Africa, September 8-12, 2002, Kampala, Uganda.
- Asea, G. 2000. Greenhouse work was presented at Wooster, Ohio State University.
- Asea, G. 2000. Results from greenhouse inoculation experiments were presented at the Makerere University Annual Graduate Workshop held 16-18 August. Graduate student (Mr. G. Asea) was voted the overall prize of the best student presenter (\$100).
- Asea, R.G. (Graduate student), 1999. Development of bioassay inoculation methods to evaluate partial resistance to *Cercospora zeaе-maydis* on maize seedling in the greenhouse (Seminar presented at the Ohio Agricultural Research and Development Centre, Wooster, 1999).
- Asekenye, B. Bashaasha, J. Mugisha and E. Adipala 2002. Scaling-up the adoption of an integrated pest management package for groundnuts in eastern Uganda: A farmer field school's approach.

## Publications/Products List

Ayiga, J., E. Adipala, G. Bigirwa, G. Asea and R.C. Pratt. 2001. Evaluation of progenies of Vo613Y x Pa405 for resistance to gray leaf spot and other maize diseases in Uganda. Presented at the Fifth African Crop Science Conf., Oct. 21-26, 2001, Lagos, Nigeria.

Bashaasha, B., V. Kasenge, D. Taylor, J. Olupot and M. Erbaugh. 2000. An Economic Assessment of the Integrated *Striga* Management Strategy for Small-Scale Sorghum Farmers in Uganda. Annual IPM CRSP Report Preparation Meeting held at Soppie Inn, Entebbe, Uganda, 21- 23 September 2000.

Bigirwa G., D.T. Kyetere, R.C. Pratt, K. Pixley, E. Adipala, S. Kyamanywa and P.E. Lipps. 1999. Evaluation of Maize Lines for *Cercospora Zeae-maydis* Resistance in Uganda. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.

Bigirwa G., H. Warren, H. Willson, S. Kyamanywa, T. Kalule and T. Kauma. 1999. The Effects of Intercropping Maize with Beans on Maize Disease Development and Progression. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.

Bigirwa G., R.C. Pratt, E. Adipala, P.E. Lipps, D.T. Kyetere, S. and Kyamanywa. 1999. *Cercospora Zeae-maydis* Incidence and Severity in Uganda during the 1998 second rains season. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.

Bigirwa, G. Highlights of gray leaf spot research in Uganda. A presentation at IPM/CRSP Annual Planning Workshop held March 9- 12 at Jinja, Uganda.

Bigirwa, G., D.T. Kyetere, J.B. Imanywoha and S. Okanya. 1998. Response of maize genotype to gray leaf spot disease in Uganda. Paper presented at the sixth regional maize conference for eastern and southern Africa, 21-25 September, Addis-Ababa, Ethiopia (in press).

Bigirwa, G., D.T. Kyetere, J.B. Imanywoha and S. Okanya. 1998. Response of maize genotypes to gray leaf spot disease in Uganda. Paper presented at the sixth regional maize conference for eastern and southern Africa, 21-25 September, Addis Ababa, Ethiopia.

Bigirwa, G., R.C. Pratt, E. Adipala, and P.E. Lipps. 1999. Assessment of Gray leaf spot and stem borer incidence and severity on maize in Uganda. Presented at Fourth African Crop Science Conf., Oct. 11-14, 1999 Casablanca, Morocco.

Bigirwa, G., R.C. Pratt, P.E. Lipps, E. Adipala. 2002. Farming components responsible for gray leaf spot disease severity in districts of contrasting incidence in Uganda. Paper presented during the seventh Regional maize Workshop for Eastern and Southern Africa, Nairobi, Kenya, February, 2002.

Bigirwa, G., R.C. Pratt, P.E. Lipps, E. Adipala. 2002. Farming components responsible for gray leaf spot disease severity in districts of contrasting incidence in Uganda. Seventh Regional maize Workshop for Eastern and Southern Africa, Nairobi, Kenya, February, 2002.

Bigirwa, G., R.C. Pratt, P.E. Lipps, E. Adipala. 2002. The influence of mulch (infected stover) in the development of gray leaf spot epidemics. Paper presented during the IPM workshop held in Kampala, September, 2002.

Bonabana-Wabbi, J., D.B. Taylor and V. Kasenge. 2006. A limited dependent variable analysis of Integrated Pest Management adoption in Uganda. Paper Presented at the American Agricultural Economics Association Annual Meetings, Long Beach, California.

Bonabana, J., D.B. Taylor, A. McGuirk, M. Bertelsen, V. Kasenge, M. Erbaugh, S. Kyamanywa, and V. Odeke. 2002. Factors affecting the adoption of IPM technologies in Kumi district, Uganda: A preliminary analysis. Paper presented at the First International Symposium on IPM in Sub-Saharan Africa, Uganda, September 8-12, 2002.

## Publications/Products List

- Bonabana, J., V. Kasenge, B. Bashaasha, D. Taylor, M. Erbaugh, A. Ekwamu, V. Odeke, E. Mwanja, C. Mukankusi. 2000. An Economic Assessment of IPM CRSP Strategies in the Control of Groundnut Diseases in Kumi District of Uganda. Graduate seminar, Makerere University, July 2000.
- Bonabana, J., V. Kasenge, D.B. Taylor, V. Odeke, C. Mukankusi, E. Adipala, S. Kyamanywa and M. Erbaugh, 2002. Assessing the economic impact of IPM CRSP strategies on groundnut diseases in Kumi, Uganda. Integrated Pest Management Conference for Sub-Saharan Africa, September 8-12, 2002, Kampala, Uganda.
- Ekere, W., V. Kasenge, T. Habwe, B. Mugonola, M. Erbaugh and D. Taylor, 2002. An economic assessment of novel striga management options on sorghum in Uganda. Integrated Pest Management Conference for Sub-Saharan Africa, September 8-12, 2002, Kampala, Uganda.
- Epieru, G., S. Kyamanywa, G. Luther, E. Adipala, B. Bulafu and H. Warren. 2002. Incidence of groundnut Leaf Miner in Teso and Lango Farming Systems. Presented in "International Conference in IPM in Sub-Saharan Africa 8th – 12th September 2002."
- Erbaugh, J. M, S. Kyamanywa, G. Epieru, and E. Mwanje. 1999. Farmer Knowledge of pest management in Eastern Uganda: A baseline assessment. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.
- Erbaugh, J. M. 1994. "The IPM CRSP Will Work with the Ugandan IPM Network', presented at the Stakeholders Meeting at Makerere University, Kampala, Uganda, December, 1994.
- Erbaugh, J. M. 1995 "Overview of IPM CRSP," Evolution and Contribution of a Participatory Research Perspective to the Conduct of Integrated Pest Management", and "Conduct of Partipatory Research: Strategy and Methods", at IPM Workshop July, 1995, Mukono, Uganda.
- Erbaugh, J. M. 1997. "Factors Associated with the Use of Pesticides and Implications for the Development of IPM: A Ugandan Case Study." presented at the African Crop Science Pretoria, South Africa, January, 1997.
- Erbaugh, J. M. 1998. "Emergence of Participatory Agricultural Research: A Case Study of Constraint Identification for Research Agenda Planning." presented as special lecture to graduate students and faculty in Department of Crop Sciences, Makerere University.
- Erbaugh, J. M. 2000. Uganda Site Progress Report and Year 8 Workplan Draft presented at the Annual Meeting of the IPM CRSP, Blacksburg, Virginia, May 2000.
- Erbaugh, J. M. 2001. Participatory Integrated Pest Management Project in Uganda. Presented at the Center for African Studies Luncheon Lecture Series, November 28, 2001.
- Erbaugh, J. M. 2002. Presented Uganda Site Progress Report and Year 9 Workplan Draft at the Annual Meeting of the IPM CRSP, Blacksburg, Va. May, 2002.
- Erbaugh, J. M. 2005. IPM CRSP Uganda site research progress report. Presented at the Annual Meeting of the IPM CRSP, Blacksburg, Virginia. October 10-12, 2005.
- Erbaugh, J. M. 2006. Developing IPM packages for small scale farmers in East Africa. Presented at the 5<sup>th</sup> National Integrated Pest Management Symposium, Delivering on a Promise, St.Louis, Missouri, April 4-6, 2006.
- Erbaugh, J. M. and S. Kyamanywa. 2001. Presented Uganda Site Progress Report and Year 9 Workplan Draft at the Annual Meeting of the IPM CRSP, Blacksburg, Va., May, 2001.
- Erbaugh, J. M., 1996 "Evolution of Participatory Research Strategies: A Case Study of IPM Research Implementation in Africa." presented in Rural Sociology 562, The Ohio State Univeristy, October, 1996.

## Publications/Products List

Erbaugh, J. M., C. Igodan, and P. Kwibika. 2001. An Assessment of the Integrated Pest Management Collaborative Research Support Project's (IPM CRSP) Activities in Uganda: Impact on Farmers' Awareness and Knowledge of IPM. Presented at the 5<sup>th</sup> meeting of the African Crop Science Society, Lagos, Nigeria, October 21-24, 2001.

Erbaugh, J. M., C. Igodan, and P. Kwibika. 2001. Factors Associated with Knowledge of IPM: Implications for Improving IPM Programs. Presented at the 5<sup>th</sup> meeting of the African Crop Science Society, Lagos, Nigeria, October 21-24, 2001.

Erbaugh, J. M., E. Mwanje, S. Kyamanywa, P. Kwibikwa, D. Taylor. 2001. Evaluating Farmers' Knowledge and Awareness of Integrated Pest Management (IPM): Assessment of the IPM Collaborative Research Support Project in Uganda. Presented at the 17<sup>th</sup> Annual Conference of the Association for International Agricultural and Extension Education, Baton Rouge, La., April 4-7, 2001.

Erbaugh, J. M., J. Donnermeyer, and S. Kyamanywa, 2002. Factors Associated with the Use of Pesticides in Uganda: Strategic Options for Targeting Integrated Pest Management (IPM) Programs. Presented at the 19<sup>th</sup> Annual Conference of AIAEE, May 26-30, 2002, Durban, South Africa. (2<sup>nd</sup> Runner-up Research Paper Presentation at Annual Meeting of the Association for International Agricultural and Extension Education 2002)

Erbaugh, J. M., Kyamanywa, S., Kwibikwa, P. and Bashasha, B. 2000. "The Impact of IPM CRSP in Uganda on Farmers' Knowledge and Awareness of IPM". Presented at the Annual Report Preparation Workshop, Entebbe, Uganda, September 21-22, 2000.

Erbaugh, J. M., P. Kibwika, J. Donnermeyer. 2006. Assessing extension agent knowledge and training needs to improve IPM Dissemination in Uganda. Presented at the 22<sup>nd</sup> Annual Conference of AIAEE, May 14-18, 2006, Clearwater Beach, Florida.

Erbaugh, J. M., S. Kyamanywa, G. Epieru & E. Mwanje. 1999. "Farmer Knowledge of Pest Management in Eastern Uganda: A Baseline Assessment". Presented at the Fourth African Crop Science Conference, October 11-14, 1999, Casablanca, Morocco.

Erbaugh, J.M., D. Taylor, S. Kyamanywa, and E. Adipala, 2002. The IPM CRSP experience with implementing participatory integrated pest management research in Uganda. Presented at Integrated Pest Management Conference for Sub-Saharan Africa, September 8-12, 2002, Kampala, Uganda.

Erbaugh, J.M., J. Donnermeyer, and M. Amujal. 2007. Assessing the Impact of Farmer Field School Participation on IPM Adoption in Uganda. Presented at the 24<sup>th</sup> Annual Conference of AIAEE, May 20-24, 2007, Polson, Montana.

Gordon, S.G., M. Bartsch, I. Matthies, H.O. Gevers, P.E. Lipps and R.C. Pratt. 2001. Linkage of molecular markers to *Cercospora zeaе-maydis* resistance in maize via selective genotyping. 43<sup>rd</sup> Annual Maize Genetics Conference 14-18 March. Lake Geneva, WI.

Gordon, S.G., M. Bartsch, I. Matthies, H.O. Gevers, P.E. Lipps and R.C. Pratt. 2001. Genetic mapping of *Cercospora zeaе-maydis* resistance QTLs in maize. Crop Science Society Annual Meeting. October 21-25, Charlotte, NC.

Grossman, L. 2001. Use of GIS in IPM research. PowerPoint presentation delivered to ten agricultural scientists from Makerere University and the National Agricultural Research Organisation.

groundnut in Uganda. Presented during the IPM CRSP Planning Workshop for the year 2000, in Jinja, Uganda, 8-10 March, 2000.

Hakiza G.J. 2007. Presentation to APEP TOT on coffee pests and diseases in Uganda.

- Hakiza J. J., Kakuhenzire R. and A. Bhagsari, A. 1999. Germplasm Evaluation for Resistance to Bacterial Wilt caused by *Ralstonia* (Syn. *Pseudomonas*) *solanarearum* in High and Mid-Elevations of Uganda. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.
- Hakiza, J.J., R.M. Kakuhenzire, S. Namanda, E. Adipala, B. Lemaga, M.O. Olanya, Ahabwe Pereza Turiho, G., R. El-Bedewy, P. Ragama, H. Warren and A.S. Bhagsari. 2002. Evaluation of the efficacy of contact and systemic fungicides for management of potato late blight in Uganda. Paper presented at the Integrated Pest Management Conference for Sub-Saharan Africa, 8-12 September 2002, Kampala, Uganda.
- Ivey, M., L. Lewis. 2002. "Diversity of the coffee wilt pathogen, *Fusarium xylarioides*." Plant Pathology Seminar Series, OSU/OARDC.
- Ivey, M., L. Lewis. 2002. "Strain characterization and diversity of the coffee wilt pathogen, *Fusarium xylarioides*, in Uganda." Integrated Pest Management Conference for Sub-Saharan Africa, Kampala, Uganda, 2002.
- Kagezi E. L., S. Kyamanywa, M. C. Akemo, R. B. Hammond and M. Erbaugh. 2002. Damage-Yield Relationships of Major Pests of Tomatoes in Central Uganda. Presented at the 10<sup>th</sup> IPM CRSP Annual Planning workshop at the Nile Resort Hotel (March 2002) in Jinja.
- Kagezi E. L., S. Kyamanywa, M. C. Akemo, R. B. Hammond and M. Erbaugh. 2002. Damage-Yield Relationships of Major Pests of Tomatoes in Central Uganda. Presented at the Annual Graduate student Seminar at the Faculty of Agriculture (1<sup>st</sup> - 2<sup>nd</sup> August, 2002).
- Kagezi E. L., S. Kyamanywa, M. C. Akemo, R. B. Hammond and M. Erbaugh. 2002. Damage-Yield Relationships of Major Pests of Tomatoes in Central Uganda. Presented at the International IPM Conference for Sub-Saharan Africa held at Hotel Equatoria in Kampala.
- Kagezi, E.L., S. Kyamanywa, M.C. Akemo, G. Luther, M. Erbaugh. 2001. Damage-Yield Relationships of Major Pests of Tomatoes in Central Uganda. Preliminary results were presented at the IPM CRSP annual planning session held at the Nile Resort Hotel, Jinja, April, 19-21, 2001.
- Kalule, T. and M. Ebellu. 1997. Seasonal fluctuations of maize and sorghum stemborers and their natural enemies in Uganda. First All Crop Science Congress, Pretoria, South Africa, 13-17 January 1997.
- Kalule, T., S. Kyamanywa, J.A. Ogwang, C.O. Omwega and R. Hammond. 2002. Establishment of *Cotesia flavipes* a parasitoid of the stalk borer *Chilo partellus*, in selected districts Uganda. Presented during the International IPM workshop 8-12, September, 2002, Kampala, Uganda.
- Kangire, A., D. Kyeetere, H. Warren, M. Erbaugh, and C. Kabole, 2002. Determination of alternate hosts for *Fusarium xylarioides*, the causal agent of coffee wilt disease in Uganda. Integrated Pest Management Conference for Sub-Saharan Africa, September 8-12, 2002, Kampala, Uganda.
- Kanzikwera, C.R, J.J. Hakiza, R. Kakunherize, L. Berga and A.S. Bhagsari. Potato germplasm for resistance to bacterial wilt in low and mild elevations of Uganda. Paper presented at the 5<sup>th</sup> Triennial Congress of the African Association, 29 May-2 June, 2000, Kampala, Uganda.
- Kasenge V., D.B. Taylor and M. Erbaugh. 1999. Economic Assessment of IPM CRSP activities in Uganda: a) Economics of management of beanfly and root rot on beans in Iganga district. b) Economic dimension to the impact of pests and diseases on a maize bean cropping system in Iganga district. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.
- Kauma T., S. Kyamanywa, J. Ogwang, H. Willson and C. Omwega. 1999. Establishment of *Cotesia flavipes* Cameron, a Braconid Parasitoid of *Chilo partellus* Swinhoe Attacking Maize and Sorghum in Eastern Uganda. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.

## Publications/Products List

- Kauma T., S. Kyamanywa, J. Ogwang, H. Willson, and C. Omwega. 1999. Establishment of *Cotesia flavipes* Cameron, a Braconid Parasitoid of *Chilo partellus* Swinhoe Attacking Maize and Sorghum in Eastern Uganda. 2<sup>nd</sup> Annual Graduate Seminar, Faculty of Agriculture, Makerere University.
- Kleinhentz, M. 2007. 1. Makerere University: Producing Vegetables for Export (35 people, 15 female). 2. Makerere University: Organic Production Theory and Practice. (36 people, 15 Female)
- Kovach and S.A. Miller. 2006, Provided a seminar on Bio-control of insects and diseases respectively, at Makerere University. The two seminars were well attended by 31 people (14 female). November 16, 2005
- Kyamanywa, S. 2001. Effect of pesticides on the major pests of groundnut. Presented at the IPM CRSP workshop, 19-22 March 2001, in Jinja, Uganda.
- Kyamanywa, S., A. Katwijukye and F. Opio 1998. Pest management in beans, a profitable venture in Uganda: A paper present at Faculty of Agriculture and Forestry Conference and will be published in the Faculty Bulletin.
- Kyamanywa, S., C. Mukankusi, E. Adipala, G. Epieru, G. Luther, H. Willson. (2000). Field Survey for Groundnut Insect Pests and Diseases. IPM CRSP National Workshop, Sept, 2000.
- Kyamanywa, S., E. Adipala, G. Epieru, G. Luther, H. Warren, H. Wilson and M. Erbaugh. 2001. Survey of Predators and Parasitoids of Major Insect Pests of Groundnuts. Presented at the IPM CRSP Year 9 planning session held at the Nile Resort Hotel in Jinja, April 19-21, 2001.
- Kyamanywa, S., E. Adipala, G. Epieru, G. Luther, H. Warren, H. Wilson and M. Erbaugh. 2001. Survey of Predators and Parasitoids of Major Insect Pests of Groundnuts. Presented at the annual report making conference held at the Grand Imperial Beach Hotel in Entebbe, September 20-22, 2001.
- Kyamanywa, S., H. Willson, F. Opio and M. Erbaugh. 1999. Influence of Seed Dressing and Earthing up on Beanfly (*Ophiomyia* sp) Damage and Bean Root rots under Farmer's Management Conditions. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.
- Kyamanywa, S., H. Willson, F. Opio, and M. Erbaugh, 2002. Influence of seed dressing and earthing-up on beanfly (*Ophiomyia* sp.) damage and bean root rots under farmers's management conditions. Integrated Pest Management Conference for Sub-Saharan Africa, September 8-12, 2002, Kampala, Uganda.
- Kyamanywa, S., H. Willson, H. Warren, M. Erbaugh, T. Kauma, E. Mwanje, and W. Tibairira. 1998. Results of the farmer biomonitoring project (Farmer Implemented Crop Pest Monitoring in Uganda) were included in a presentation on the Uganda IPM/CRSP delivered in a seminar at Makerere University.
- Kyamanywa, S., H. Willson, H. Warren, M. Erbaugh, T. Kauma, E. Mwanje, and W. Tibairira. 1998. Results of the farmer biomonitoring project (Farmer Implemented Crop Pest Monitoring in Uganda) were included in a presentation on the Uganda IPM/CRSP delivered in a seminar at ICIPE (Nairobi, Kenya).
- Kyamanywa, S., H. Willson, H. Warren, M. Erbaugh, T. Kauma, E. Mwanje, and W. Tibairira. 1998. Results of the farmer biomonitoring project (Farmer Implemented Crop Pest Monitoring in Uganda) were included in a presentation on the Uganda IPM/CRSP delivered in a seminar at NRI (Chatham England).
- Kyamanywa, S., J. Nabirye, E. Adipala and H. Willson (2000). Effect of Thrips (*Megarulothrips sjosthedti*) Damage on Cowpea Yield in Eastern Uganda. Annual Graduate Student Workshop, Makerere University, 16-18 August 2000.
- Kyamanywa, S., J. Nabirye, M. Ogenga-Latigo, H. Willson, V. Odeke and E. Adipala (2000). On-Farm Studies to Verify Cowpea IPM Technologies in Eastern Uganda. Preliminary results presented in Annual Graduate Student Workshop, Makerere University, 16-18 August 2000.

late blight in south western Uganda. Presented at the African Potato Association Congress, 29 May- 2 June, 2000, Kampala, Uganda.

Magambo, J. S., S. Kyamanywa, A. Ekwamu, K.E. Lerner, G. Luther, M. Erbaugh. 2002. An alternative approach to increasing tomato production by reducing incidences of Bacterial wilt through grafting. Presented at the IPM CRSP Year 10 work plan meeting at the Jinja Nile Resort in April 2002.

Mugonola, B., V. Kasenge, W. Ekere, S. Kyamanywa, E. Adipala, J. Nabirye, D.B. Taylor and M. Erbaugh, 2002. An economic analysis of IPM technologies used in the control of cowpea pests and diseases in Kumi and Pallisa Districts Uganda. Integrated Pest Management Conference for Sub-Saharan Africa, September 8-12, 2002, Kampala, Uganda.

Mukankusi C. 2000. Efficacy and economic benefit of different chemical spray regimes in the control of the major pests and diseases of groundnut in Uganda. Presented during the Students Graduate Seminar, Makerere University, Faculty of Agriculture, 16-18 August, 2000.

Mukankusi, C. (1999). Effect of host genotype and plant spacing on the incidence and severity of the major pests and diseases of groundnut in eastern Uganda. Presented during the Students Graduate Seminar, Makerere University, Faculty of Agriculture, 1-3 September, 1999.

Mukankusi, C. 2001. Field survey of major insect pest of groundnut in eastern Uganda. Presented at the IPM CRSP workshop, 19-22 March 2001, in Jinja, Uganda.

Mukankusi, C. 2001. Ground production in Uganda. Presented at I@mak.com workshop, 26 – 29 August 2001.

Mukankusi, C. 2001. Integrated management of groundnut rosette disease and *Cercospora* leaf spot on groundnut in Uganda. Presented at the IPM CRSP workshop, 19-22 March 2001, in Jinja, Uganda.

Mukankusi, C., E. Adipala, E. Epieru, S. Kyamanywa and H. Willson. 1999. Integrated Management of Groundnut Rosette Virus and *Cercospora* leaf spot on Groundnut. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.

Mukankusi, C., E. Adipala, E. Epieru, S. Kyamanywa and H. Willson. 1999. Integrated Management of Groundnut Rosette Virus and *Cercospora* leaf spot on Groundnut. Faculty of Agriculture and Forestry, Makerere University, Annual Graduate Student Workshop held 1 –3 September 1999.

Munyuli, M.B.T., S. Kyamanywa and G. Luther. 2002. Effect of groundnut monocultures and polycultures and insecticide spray schedule on the abundance and diversity of native predator and parasitoid arthropods in Eastern Uganda. Presented at the International Conference on IPM in sub-Saharan Africa, Hotel Equatoria, 8-12 Sep 2002, Kampala, Uganda.

Munyuli, M.B.T., S. Kyamanywa and G. Luther. 2002. Effects of cowpea monocultures and polycultures and insecticides on the abundance and diversity of indigenous predator and parasitoid arthropods in eastern Uganda. Presented at the International Conference on IPM in sub-Saharan Africa, Hotel Equatoria, 8-12 Sep 2002, Kampala, Uganda.

Munyuli, M.B.T., S. Kyamanywa, G. Luther and R. Hammond. 2002. Effectiveness of predators and parasitoids of insect pests on cowpea. Presented at the IPM CRSP Year 10 planning session, Nile Resort Hotel in Jinja, March, 2002.

Munyuli, M.B.T., S. Kyamanywa, G. Luther and R. Hammond. 2002. Field and laboratory studies on the capabilities of *Cheilomenes lunata* Fabricius (Coleoptera: Coccinellidae) and *Syrphus* spp. (Diptera: Syrphidae) to prey on groundnut/cowpea aphid, *Aphis craccivora* Koch (Homoptera: Aphididae) in a semi-dried of eastern Uganda. Presented at the International Conference on IPM in sub-Saharan Africa, Hotel Equatoria, 8-12 Sep 2002, Kampala, Uganda.

## Publications/Products List

Nabirye, J. 2000. Determination of Economic Injury levels (EILs) on Cowpea. One season data was presented during the Graduate Seminar, held on August 16-18, 2000 at Makerere University, Faculty of Agriculture.

Nabirye, J. 2000. Determination of Economic Injury Levels (EILs) on Cowpea. One season data was presented during the IPM CRSP Annual Preparatory meeting held on September 21-23, 2000 at Sophie Motel, Uganda.

Nabirye, J. 2000. Farmer Participatory Evaluation of Cowpea Integrated Pest Management (IPM) Technologies in Eastern Uganda. One season data was presented during the Graduate Seminar, held on 16-18 August 2000 at Makerere University, Faculty of Agriculture.

Nabirye, J. 2000. Farmer Participatory Evaluation of Cowpea Integrated Pest Management Technologies Against Cowpea Pests. One season data presented during the IPM CRSP Annual Preparatory meeting held on September 21-23, 2000 at Sophie Motel, Uganda.

Nabirye, J. 2001. Determination of Economic Injury levels (EILs) on Cowpea. Two season data was presented during the IPMCRSP Annual Planning Workshop held on April 19-21, 2001 at Jinja, Uganda.

Namanda S.. 2000. Integration of host resistance and minimum fungicide application for management of potato in Jinja, Uganda, 8-10 March, 2000.

Namanda, S., E. Adipala, M. Olanya and A.S Bhagsari. 2000. Identification of late blight resistant progenies and minimum fungicide spray schedule to suppress potato late blight. Presented at a symposium in Kabale, Uganda, 24-27, February, 2000.

Namanda, S., E. Adipala, M. Olanya, J.J. Hakiza and A.S. Bhagsari. Integration of host resistance and minimum fungicide application for management of potato late blight in south western Uganda. Paper presented at the 5th Triennial Congress of the African Potato Association, 29 May-2 June, Kampala, Uganda.

Ochwo M.K.N., S. Kamoun, E. Adipala, P.R. Rubaihayo, K. Lamour and M. Olanya. 2002. Has the Ugandan *Phytophthora infestans* population seen a recent introduction of virulent strains of the pathogen? In: *Global Initiative on Late Blight Conference*, Germany.

Ochwo, M., E. Adipala, M. Olanya, J.J. Hakiza and A.S, Bhagsari. 2000. Population genetics of *Phytophthora infestans* and resistance to late blight in elite potato progenies. Presented at a workshop in

Ochwo, M.K.N., E. Adipala, J. Mukalazi, P.Kankwatsa, S. Namanda and J.J. Hakiza. 2002. Integrated management of late blight: The Ugandan experience. Paper presented at the Integrated Pest Management Conference for Sub-Saharan Africa, 8-12 September 2002, Kampala, Uganda.

Olanya, M.O., R. El-Bedewy, S. Namanda, R. Kakuhenzire, W. Wagoire, J.J. Hakiza and E. Adipala. 2002. Development of potato late blight in relation to date of planting and its impact on plant biomass and yield at Kalengyere Research Station in Uganda. Paper presented at the Integrated Pest Management Conference for Sub-Saharan Africa, 8-12 September 2002, Kampala, Uganda.

Olupot R., Oryokot J. and Brhane G. 1999. Development of an Integrated *Striga* Management Strategy for Small Scale Sorghum Farmers. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.

Olupot R., Oryokot J. and Brhane G. 1999. Development of an Integrated *Striga* Management Strategy for Small Scale Sorghum Farmers. Second annual graduate student conference, Faculty of Agriculture, Makerere University, Uganda.



## Publications/Products List

- Olupot, J.R., D.S.O.Osiru, J.Oryokot and B.Gebrekidan. 2002. The effectiveness of silver leaf desmodium (*Desmodium uncinatum*) to control *Striga* on sorghum in Uganda. Paper presented at the International Conference on IPM in sub-Saharan Africa, September 2002, Kampala, Uganda.
- Olupot, J.R., J. Oryokot, B. Gebrekidan and D. S. O. Osiru. 2000. The Capacity of *Celosia argentia* to Control *Striga* in Sorghum in Uganda, and The Use of Crop Rotation in the Management of *Striga* in Sorghum in Uganda. Third Annual Graduate Student Conference (16<sup>th</sup> - 18<sup>th</sup> August, 2000), faculty of Agriculture, Makerere university. The student presenter was ranked third best in the presentations and won a prize of 70,000 USHs and a certificate of merit.
- Orawu M., Adipala E., Kyamanywa S. and Warren, H. 1999. Influence of Cultural Practices and Minimum Pesticide Application on Insect pests and Diseases of Cowpea in Kumi District. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.
- Orawu M., Adipala E., Kyamanywa S. and Warren, H. 1999. Influence of Cultural Practices and Minimum Pesticide Application on Insect pests and Diseases of Cowpea in Kumi District. Faculty of Agriculture and Forestry, Makerere University, Annual Graduate Student Workshop held 1 –3 September 1999.
- Oryokot, J., J.R.Olupot and B. Gebrekidan. Development of Novel Options for *Striga* Management in Sorghum in Uganda. Presented in *two* Annual Graduate Student *workshops* at the Faculty of Agriculture, Makerere University.
- Osiru, D.S.O., J. Oryokot, B. Gebrekidan, J. Robert Olupot. 1999. Development of An Integrated Striga Management Strategy for Small-Scale Sorghum Farmers in Uganda. 17<sup>th</sup> Biennial Weed Science Society conference in Harare, Zimbabwe.
- Pratt, R.C. 2002. “OSU and CIMMYT Maize Research -- Contributions to World Food Production” Presented in conjunction with Dr. Norman Borlaug’s “Prospects for World Agriculture in the 21st Century” Program for visiting scientists and the public. February 22, 2002, Wooster, OH.
- Pratt, R.C. and P.E. Lipps. 1999. Update on gray leaf spot in U.S.A. 1999. African Regional Initiative on Gray Leaf Spot. Collaborators meeting. Fourth African Crop Science Conf., Ost. 11-14, 1999 Casablanca, Morocco.
- Pratt, R.C., G. Bigirwa, P.E. Lipps, E. Adipala, D.T. Kyetere, S. Kyamanywa and K. Pixley. 1999. *Cercospora Zeae-maydis* Resistance and Stalk Strength of Selected Tropical Maize Lines Testcrossed to Corn Belt Testers. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.
- Pratt, R.C., S.G. Gordon and P.E. Lipps. 2002. “Use of IPM in the Control of Multiple Diseases in Maize:Strategies for Selection of Host Resistance.” Paper presented during the IPM Conference for Sub-Saharan Africa held in Kampala, 8-12 September, 2002.
- Sekamatte, B., M. Latizo, S. Kyamanywa and H. Willson. 2000. The Use of Protein and Sugar-Based Baits to Enhance Predatory Ant Activity and Reduce Termite Damage to Maize in Uganda. Annual graduate students workshop, Faculty of Agriculture, 16<sup>th</sup> - 18<sup>th</sup> August 2000.
- Sekamatte, B., M. Latizo, S. Kyamanywa and H. Willson. 2000. The Use of Protein and Sugar-Based Baits to Enhance Predatory Ant Activity and Reduce Termite Damage to Maize in Uganda. CPP maize cluster planning workshop in the UK, May 2000.
- Sekamatte, B., M. Latizo, S. Kyamanywa and H. Willson. 2000. The Use of Protein and Sugar-Based Baits to Enhance Predatory Ant Activity and Reduce Termite Damage to Maize in Uganda. Seminar on Biological Control of Termites sponsored by the Cereals Research Programme in conjunction with the ADC/IDEA Project.
- Taylor, D. 1996. Participatory assessment. Ukraine scientists training session. June 1996.

## Publications/Products List

Taylor, D.B. 2000. Mathematical Risk Programming: Linear and Nonlinear Methods – Implications for the IPM CRSP. Seminar presented to the Faculty of Agriculture, Makerere University, March 3, 2000, Kampala, Uganda.

Warren, H. 2000. Gene for gene resistance. Seminar presented at Makerere University, Faculty

Willson, H. 2000. Transgenic plant pesticides for maize pest management. Seminar presented at Makerere University, Faculty of Agriculture, Kampala, 20 March 2000.

Willson, H., S. Kyamanywa, and T. Kauma. 1999. The Role of a Farmer Implemented Pest Monitoring Program in the Implementation of On-Farm Maize Pest Management Research. IPM CRSP / Uganda Site Workshop, Mt. Elgon Hotel, Mbale: 26-29 August 1999.

### Uzbekistan

Kodirova, Z. N. 2007. Major virus diseases of agricultural crops in Uzbekistan. Central Asia Regional IPM Stakeholders Forum meeting, Dushanbe, Tajikistan, May 27-29, 2007.

## 12. ELECTRONIC PRESENTATIONS

### Indonesia

Aunu, R. 2011. Pertanian berkelanjutan dalam usahatani hortikultura. September 14

Aunu R. 2011. Perubahan iklim dan perkembangan OPT. October 5-6.

Aunu R. 2011. Tinjauan umum dan rancangan penyempurnaan buku pedoman pengamatan dan perlindungan tanaman pangan. July 18.

Aunu R., B. M. Shepard, G. R. Carner, E. Benson, G. Schnabel, M. D. Hammig. 2011. Southeast Asia Regional Program: West Java accomplishments 2010/2011. August 2.

Aunu R., B. M. Shepard, G. R. Carner, M. D. Hammig. 2011. IPM tactics for vegetable crops in Indonesia. August 5.

### Jamaica

Grossman, L. 1998. CD-ROM containing all lectures presented at the GIS workshop (Research Enhancement through Participatory Activities: Information Systems for Collaborative Research) and all data used in the workshop to enable participants in Jamaica to further their learning of GIS and GPS.

Ravlin, F.W. and E.A. Roberts. 1996. Introduction to the Internet.

Ravlin, F.W. and E.A. Roberts. 1996. Introduction to the World Wide Web.

Roberts, E.A. and F.W. Ravlin. 1996. The Ins & Outs of Data: What to get, how to get it & what to do when you have it.

### Uganda

Grossman, Lawrence. 2002 “*MANUAL FOR USING GIS IN UGANDA*  
<http://www.cyber.vt.edu/LSG/Uganda/U-arc1.htm>

Grossman, Lawrence and Andy Roberts, 2002. *IPM CRSP: GIS in Uganda*. CR-ROM

Roberts, Andy. 2002. “IPM CRSP UGANDA-- GIS WORKSHOP: USING ARCVIEW,”  
[http://www.ento.vt.edu/Uganda\\_GIS/](http://www.ento.vt.edu/Uganda_GIS/)

### 13. POSTERS

#### General / Other

Chang, P. S., Tolin, S. 2008. Immunological and molecular diagnosis of two common genera of plant viruses using membrane-based technologies. Poster presented at: Dean's forum on Infectious diseases. September 28-29. Blacksburg, VA.

Gandhi, K., S.K. Manoranjitham, S. Mohankumar, R. Samiyappan, E.I. Jonathan, G. Chandrasekar, and N.A. Rayapati. 2012. IPM strategies for the management of Peanut bud necrosis virus disease in tomato. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Gebrekidan, B., G.W. Norton, S.K. De Datta and G.C. Luther. 1998. Highlights of the IPM CRSP global activities. Annual Meeting of the ASA, Baltimore, MD, USA, Oct 1998.

Gesimba, R., D. Struve, L. Rhodes, M. Bennett and M. Erbaugh. The effect of substrate type and Treatment in the Suppression of *Fusarium oxysporium* f. sp. *Passiflorae* under irrigation conditions. Presented at the Annual IPM CRSP meeting in Manila, Philippines, May 2008.

Karthikeyan G., V. Pandian, S. K. Manoranjitham, G. Chandrasekar, R. Samiyappan, E. I. Jonathan, and R. A. Naidu. 2011. Studies on *Peanut bud necrosis virus* affecting tomato in India. Poster presentation at the American Phytopathological Society and International Association of Plant Protection, Honolulu, Hawaii, August 6-10.

Karungi, J., J. Kateregga, K. Byamugisha, B. Ekbom, and S. Kyamanywa. 2012. Organic soil fertility amendments as an IPM toll against Lepidopteran pests of cabbage. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Karungi, J., P. Agamile, E. Muhumuza, J. Kovach, E.N. Sabiiti, M. Erbaugh and S. Kyamanywa. 2009. Effect of intercropping and a bio-pesticide on population dynamics of two aphid species *Brevocoryne brassicae* and *Aphis gossypi*. A poster presented at the 6<sup>th</sup> International IPM Symposium, March 24 – 26, 2009, Portland, Oregon USA.

Kuria S.N, J.M. Kibaki, A.M. Ndegwa, M.M. Waiganjo and R.G. Munene. 2008. Evaluation of Advanced Tomato Breeding Lines for Resistance to Bacterial Wilt (*Ralstonia solanacearum*) A Poster presented during the 8<sup>th</sup> Workshop on Sustainable Horticultural Production in the Tropics. Masinde Muliro University of Science and Technology (MMUST), Kakamega, 8<sup>th</sup>-11<sup>th</sup> December 2008.

Kyamanywa S., P. Kucel, N. Uringi J. Kovach, A. Roberts, and M. Erbaugh. 2009. Arabica coffee pest profiles in the Mount Elgon area of Uganda. A poster presented at the 6<sup>th</sup> International IPM Symposium, March 24 – 26, 2009, Portland, Oregon USA. The presented poster is appended on the [www.ipmcenters.org/ipmsymposium09/abstracts.cfm](http://www.ipmcenters.org/ipmsymposium09/abstracts.cfm).

McDonald, Sharon and Tolin, Sue. 2008. Survey of farmer practices in two tomato-growing areas of Jamaica. Poster presented at the IPM CRSP project-wide workshop, May 19 to May 21, 2008 in Manila, Philippines.

Otipa M. J, E. Ateka, D.Miano, E. Mamati, R. Amata, M. Waiganjo, J. M. Mureithi, M. Erbaugh, X. Zhang, and F. Qu. Factors contributing to high incidences of Passion fruit virus in Passion fruit Production Systems in Kenya. Poster at the African crop Science Congress, Maputo, Mozambique, October 10-14.

Otipa, M., E. Ateka, E. Mamati, D. Miano, R. Amata, M. Waiganjo, L. Wasilwa, J. Mureithi, M. Erbaugh, and F. Qu. 2011. Passion fruit Production: Importance of Disease Diagnostics.

Palmieri, M, W. Argueta, W. Romero, V. Porres, T. Peña and O. Lavagnino Tospovirus presence in thrips and thrips species presence in Guatemalan fields and crops. Poster presented at the IPM CRSP projectwide workshop, May 19 to May 21, 2008 in Manila, Philippines.

Palmieri, M., E. Dardón, A. Ávalos, L. Ortiz, M. Velázquez, E. Solares, and R. Gilbertson. Monitoring *Begomovirus* (Geminiviridae) in whitefly (*Bemisia tabaci*) from Salamá and other valleys in Guatemala, as part of an integrated pest management program in tomato. Poster presented at the IPM CRSP project-wide workshop, May 19 to May 21, 2008 in Manila, Philippines.

Promising Interventions Identified Through The IPM- CRSP Participatory Research a poster presented in the IPM CRSP Workshop, Manila, Philippines (May 19-22).

Rayapati, N., P. Sudarsana, A. Olufem, G. Karthikeyan, K. Manoranjitham, T. Damayanti, and S. Hidayat. 2012. "DNA barcoding" of plant viruses using FTA Clasic Card Technology. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

S. Adikini<sup>1</sup>, F. Beed<sup>2</sup>, L.Tripathi<sup>2</sup>, G.Tusiime, M. Mwangi,V. Aritua<sup>3</sup>, S. Kyamanywa<sup>1</sup> and S.B. Miller. "PCR detection of *Xanthomonas vasicola* pv. *musacearum* in banana: implication for mat management to control BXW wilt International IPM CRSP Workshop: Advancing Regional and Global IPMCRSP Programs, May 19-21 2008, Manila, Philippines.

Tolin, S. A., J. Brown, C. M. Deom, R. Gilbertson, M. Palmieri, M. Rivera, J. Melgar, M. M. Roca, S. McDonald, W. McLaughlin, R. T. Martinez, M. Koutou, W. Leke, S. Green, J. Legg. 2008. Collaborative Assessment and Management of Aphid and Whitefly Transmitted Viruses in the Caribbean, Central America, and Sub-Saharan Africa. Poster presented at the IPM CRSP project-wide workshop, May 19 to May 21, 2008 in Manila, Philippines.

Waganjo M.; Wabule M.; Ngari, B.; Kuria, S.; Kyamanywa, S.; Erbough, M.; Kovach, J.; Taylor, D and Maxwell, D. Smallholder Tomato Production Constraints In Kirinyaga District, Kenya and Some

Zselezky, L., M. E. Christie, J. Haleegoah, A. Dankyi. 2011. Gender, pesticides, and embodiment: Proposing alternative technologies for pest management among tomato farmers in Ghana. In the "Gender, Bodies & Technology: (Dis) Integrating Frames," a conference hosted by Virginia Tech's Department of Women's and Gender Studies.

### Albania

An Alternative Approach to Increasing Tomato Production by Reducing Incidences of Corky Root by Grafting in Albania (J. Tedeschini, H. Paçe, B. Alushi and D. Pfeiffer)

Eco-friendly management of root-knot nematode *Meloidogyne incognita* in Albania. (V. Jovani, J. Tedeschini, A. Ramadhi and D. Pfeiffer), p71-76, IOBC wprs Bulletin Vol 49, 2009.

Evaluation of impact of pesticides on *Botrytis cinerea* under different disease control programs in Albanian greenhouses (J. Tedeschini, H. Paçe and D. Pfeiffer).

Implementation of IPM Scouting Program for Tomato and Cucumber Crop Production in Albanian Greenhouses (J. Tedeschini, H. Paçe, E. Çota, S. Gjini and D. Pfeiffer)

Integrated control of root knot nematode by using bionematacides and biostimulants in some protected vegetable crops in Albania (A. Ramadhi and V. Jovani).

Integrating Fungicidal Control Programs to Maximize Economic Return on Tomato Production in Albanian Greenhouses. (J. Tedeschini, H. Paçe, I. Papingji and D. Pfeiffer).

Integrating Fungicidal Control Programs to Maximize Economic Return on Tomato Production in Albanian Greenhouses. (J. Tedeschini, H. Paçe, I. Papingji and D. Pfeiffer), p 41-44, IOBC wprs Bulletin Vol 49, 2009.

Reduction of the corky rot infection by soil solarization in greenhouse tomato production in Albania (H. Paçe, J. Tedeschini and D. Pfeiffer), p67-70, IOBC wprs Bulletin Vol 49, 2009.

### **Asia**

Maredia, K., and J.N. Landis. 2012. Ecologically-based Integrated Pest Management packages for food security crops in Central Asia. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Opena, J.L., A.M., Baltazar, C.B. Adalla, and N. L. Opina. 2008. Agroecological approaches to managing weeds in eggplant using the stale-seedbed technique. Presented at the IPM CRSP meeting, Manila, Philippines. May 19-21, 2008. (poster)

Sadiov, N. 2006. "Biological Conservation through Habitat Management." Talk presented at the Regional Workshop on "Assessing the importance of Colorado beetle and the emergence of new pest constraints in potato production system of Central Asia and the Caucasus" October 3-6, 2006 in Tashkent. Organized by The International Potato Center CIP, Lima, Peru.

Safarzoda, S., N. Saidov, A. Jalilov, D. Landis, M. El-Bouhssini, and M. Kennelly. 2012. Development and delivery of ecologically-based IPM packages for wheat in Central Asia. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

### **Bangladesh**

Alam, S. N., A.K.M.Z. Rahman, A.K.M. Khorsheduzzaman, A.N.M.R. Karim, E.G. Rajotte, G.C. Luther and N.S. Talekar. 2004. Parasitism efficiency of two parasitoids, *Trathala flavoorbitalis*, and *Trichogramma chilonis*, on *Leucinodes orbonalis* Guenee in Bangladesh. Poster presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.

Alam, S.N., M.A. Rashid, A.K.M. Khorsheduzzaman, H.S. Jasmine, N.A. Sultana, A.N.M.R. Karim, E.G. Rajotte and G.C. Luther. 2004. Development of eggplant varieties resistant to fruit and shoot borer and other pests. Poster presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.

Hoque, M.M., M.N. Uddin, S.R. Mollik, M. Rahman, A. N. M. R. Karim, E.G. Rajotte and G.C. Luther. 2004. IPM approach for controlling lepidopteran pests of cabbage in Bangladesh. Poster presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.

Kodamanchaly, J.S. 2001. Power behind the Purdah: Women's status, household decision-making process and adoption of IPM in rural Bangladesh. IPM CRSP annual workshop and planning meetings, May, 2001 at Virginia Tech.

Nasiruddin, M., S.N. Alam, A.K.M.Z. Rahman, A.K.M. Khorsheduzzaman, H.S. Jasmine, A.N.M.R. Karim, and E.G. Rajotte. 2004. Integrated management of cucurbit fruit fly, *Bactrocera cucurbitae* in bitter melon using magic traps in Bangladesh. Poster presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.

Rashid, M.A., S. Ahmad, A. Rahman, B. Ahmed, A.N.M.R. Karim, and E.G. Rajotte. 2004. Grafting technique for controlling bacterial wilt disease in eggplant and tomatoes. Poster presented at the Regional Workshop of IPM CRSP, held at the New World Renaissance Hotel, Manila, Philippines, June 29-30, 2004.

### **Eastern Europe**

“Biological control of diseases in solanaceae crops”

“Development of biological control of whitefly”

“Development of tomato IPM package in Uzbekistan”

4th Annual Meeting of Alb-Shkenca Institute, Tetova 31 August- 2 September 2009, Macedonia

Eco-friendly management of root-knot nematode *Meloidogyne incognita* in Albania. (V. Jovani, J. Tedeschini, A. Ramadhi and D. Pfeiffer), p71-76, IOBC wprs Bulletin Vol 49, 2009.

Investigations on Population Dynamics and Bio-control Effectiveness for *Aphis gossypii* in Greenhouse Vegetables (Sh. Shahini, E. Kullaj, J. Tedeschini and D. Pfeiffer).

IOBC/WPRS Working Group- Integrated Control in Protected Crops, Mediterranean Climate Chania Crete, (Greece) 6-12 Sept, 2009.

Sadiov, N. 2006. Agricultural Landscape Management for Enhancing Biological Pest control (in Russian). August 30, 2006 Institute of Zoology and Parasitology of the Academy of Sciences of Tajikistan.

### **Eastern and Southern Africa**

Mersie, W., L. Strathie, A. McConnachie, K. Zewdie, L. Nigatu, I. Fitiwy, S. Adkins, J. Bisikwa, M. Abebe, L. Gebrehiwot, M. Negri, K. Kashe, C. McNamee, E. Wabuye, K. Clark, and R. Muniappan. 2012. Managing the weed, parthenium (*Parthenium hysterophorus* L.) in eastern and southern Africa. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Strathie, L. and McConnachie, A. 2008. Towards the management of the invasive plant *Parthenium hysterophorus* (Asteraceae) in eastern and southern Africa: determining its distribution. IPM CRSP Annual Workshop: Advancing Regional and Global Theme Programs, Manila, Philippines, May 19-21, 2008.

### **Ecuador**

Unk, 2006. Poster presented on disease resistance in the section *Lasiocarpa* to *Fusarium oxysporum* and additional potential of the section *Lasiocarpa* as a source of genes for naranjilla improvement, at the XII International Congress of Andean Crops held in Quito from 23-27 July, 2006

### **Ghana**

Zselezky, L., M.E. Christie, J. Haleegoah, and A. Dankyi. 2011. Exploring Gender Relations and Pest Management in the Brong-Ahafo Region of Ghana. In the 2011 Annual Meeting of the South Eastern Division of the Association of American Geographers.

Zselezky, L., M.E. Christie, J. Haleegoah, and A. Dankyi. 2011. Exploring Gender Relations and Pest Management Among Tomato Farmers in the Brong-Ahafo Region of Ghana. In the Interdisciplinary Research Symposium 2011, hosted by the Interdisciplinary Research Honor Society at Virginia Tech.

Zselezky, L., M.E. Christie, J. Haleegoah, and A. Dankyi. 2012. Implications of gender relations for the introduction of IPM among tomato farmers in Ghana. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

### **Guatemala**

Julian, J.W., G.H. Sullivan and G.E. Sanchez. 2002. “Evaluation of the impact of port of entry automatic detentions on the competitiveness of Guatemalan snow pea in US Markets”. Poster presented at IPM CRSP

5<sup>th</sup> Seminar of Integrated Pest Management in Non-Traditional Export Crops, held in Antigua, Guatemala, June 17-19, 2002.

Julian, J.W., G.H. Sullivan and G.E. Sanchez. 2002. "Future market development issues that impact non-traditional agricultural export sector". Poster presented at IPM CRSP 5<sup>th</sup> Seminar of Integrated Pest Management in Non-Traditional Export Crops, held in Antigua, Guatemala, June 17-19, 2002.

Julian, J.W., G.H. Sullivan and S.C. Weller. 1999. Assessment of Potential Impacts from the Elimination of Methyl Bromide in Fruit and Vegetable Trade. Presented at the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Lamport, P.P., G. Sullivan, G.E. Sánchez, and S.C. Weller. 1999. Development of IPM Strategies for Control of Leafminers in Snow Peas. Presented at the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Mayen, C.D. and S.C. Weller. 2002. "Weed management alternatives in tomato production". Poster presented at the IPM CRSP 5<sup>th</sup> Seminar of Integrated Pest Management in Non-Traditional Export Crops held in Guatemala June 17-19, 2002.

Salazar, J.R, H. Vásquez, D. Dardón, and V. Salguero. 1996 Poster presentation of research during VI International Congress on Integrated Pest Management and the V Latin American workshop on Whiteflies and Geminivirus. Acapulco, Gro. Mexico, Sept. 29-Oct. 4, 1996.

### India

Dinakaran, D., F. Fajendran, S. Mohankumar, G. Karthikeyan, S. Thiruvadaninambi, E.I. Jonathan, R. Ssamiyappan, and V. Jayabal. 2012. Popularization of integrated pest and disease management module for onion in India. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Jonathan, E.I., C.A. Mahalingam, and S. Suresh. 2012. Papaya mealybug on mulberry and its management through classical biocontrol. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Kaushik, N., V. Sharma, and V. Joshi. 2012. Evaluation, validation and economic analysis of viointensive IPM in okra (*Abelmoschus esculentus* L. Moench) in India. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Pualendhi, L., N. Ragupathi, B.K. Savitha, and G. Karthikeyan. 2012. Incidence of YVMV in okra entries (*Abelmoschus esculentus* L.) under tropical condition. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Pugalendhi, L., G. Karthikeyan, B.K. Savitha, and R. Aravintharaj. 2012. Identification of resistant donors for tomato leaf curl virus in Coimbatore, India. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Pugalendhi, L., S. Mohan Kumar, B.K. Savitha, and R. Aravintharaj. 2012. Field screening of chilli (*Capsicum annum* L.) entries against thrips (*Scirtothrips dorsalis*). 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Suresh, S., S. Preetha, P. Karuppuchamy, E.I. Jonathan, and R. Samiyappan. 2012. Pymetrozine-A novel insecticide for planthopper management. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.



**Indonesia**

Sembel, D., A. Budiman, M. Meray, C. Rante, R. Dien, M. Hammig, M. Shepard, and G. Carner. 2012. Biology of infestation of *Nesidiocoris tenuis* Reuter (Hemiptera: Miridae) on tomato in Indonesia. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

**Jamaica**

Bohac, J.R. 1997. Methods to evaluate and characterize insect resistance sweetpotato germplasm. McKnight Foundation Collaborative Research Program Conference, Lake Tahoe, CA, June 13-17, 1997.

Bohac, J.R. 1997. Sweetpotato germplasm populations with multiple resistance: Germplasm characterization and hybridization studies. McKnight Foundation Collaborative Research Program Conference, Lake Tahoe, CA, June 13-17, 1997.

Clarke-Harris, D., S.J. Fleischer and C. Edwards. 1998. "Promoting Sustainable and Competitive Agriculture for the New Millenium" National Consultation- PROCICARIBE, August 4-5, 1998.

Clarke-Harris, D., S.J. Fleischer and C. Edwards. *Networking for Sustainable IPM Solutions*, Second Meeting of Integrated Pest Management Network

Clarke-Harris, D., S.J. Fleischer, F. McDonald, C. Edwards and P. Chung. 2000. Research in Callaloo. Poster Presentation at the CARDI Open Session, February 2000

Clarke-Harris, D., S.J. Fleischer, F. McDonald, C. Edwards and P. Chung. 2000. IPM CRSP Research Activities. Poster Presentation at the Denbigh Agricultural Show, August 5-7, 2000

Clarke-Harris, D., S.J. Fleischer, F. McDonald, C. Edwards and P. Chung. 2001. Research in Callaloo. Poster Presentation at the CARDI Annual Awards Ceremony, March 9, 2001

Clarke-Harris, D., S.J. Fleischer, F. McDonald, C. Edwards and P. Chung. 2001. Callaloo IPM. Poster Presentation at the Denbigh Agricultural Show, August 4-6, 2001

Clarke-Harris, D.O. and F.D. McDonald. 2001. Hot Pepper IPM, Poster Presentation at the Denbigh Agricultural Show, August 4-6, 2001.

Fery, R. L. 1998. Inheritance of resistance to the southern root-knot nematode in *Capsicum Chinese* Jacq. The Annual Conference of the American Society for Horticultural Science, Charlotte, NC, July 12-15, 1998.

Fery, R. L. 1998. Resistance in bell pepper to southern root-knot nematodes: Characterization of resistance and development of resistant cultivars. The XXV International Horticultural Congress, Brussels, Belgium, August 2-7, 1998.

Fery, R. L. 1999. Genetic analysis of resistance to the peanut root-knot nematode exhibited by the *Capsicum chinense* germplasm line PA-353. Annual Conference of the American Society for Horticultural Science, Minneapolis, MN, July 28-31, 1999.

Fery, R.L. 1996. Evaluation of Scotch Bonnet and Habanero peppers (*Capsicum chinense*) for resistance to southern root-knot nematodes. Annual Conference of the American Society for Horticultural Science, Lexington, KY, Oct 6-10, 1996.

Fery, R.L. 1997. Development of bell peppers with resistance to the southern root-knot nematode. Annual Conference of the Southern Region of the American Society for Horticultural Science, Birmingham, AL, Feb 2-3, 1997.

## Publications/Products List

Harrison, Jr., H.F. 1997. Response of bell pepper cultivars to bentazon. Annual Conference of the Weed Science Society of America, Orlando, FL, Feb 2-6, 1997.

Jackson, D. M. 2002. Sweetpotato IPM in the Caribbean. Poster presented at IPM CRSP Symposium 2002, Technical Committee Meeting/ Year 10 Planning Workshop, 15-18 May 2002, Virginia Tech University, Blacksburg, VA.

Jackson, D. M. 2002. Sweetpotato IPM in the Caribbean. Poster presented at National Sweetpotato Collaborators Meeting, Feb. 2-3, 2002, Kissimmee, Florida.

Jackson, D.M., J. R. Bohac, K. M. Dalip, J. Lawrence, D. Clarke-Harris, F. MacDonald, L. McComie, J. Gore, D. McGlashan, P. Chung, S. Edwards, S. Tolin, and C. Edwards. 2001. Sweetpotato IPM in the Caribbean. 39<sup>th</sup> Annu. Sweetpotato Convention, Jan. 28-30, 2001, Orange Beach, AL. (Poster presentation).

Jackson, D.M., J.R. Bohac, K.M. Dalip, J. Lawrence, D. Clarke-Harris, F. MacDonald, L. McComie, J. Gore, D. McGlashan, P. Chung, S. Edwards, S. Tolin, and C. Edwards. 2000. Sweetpotato IPM in the Caribbean. Poster presented at: Workshop on Integrated Pest Management of Sweetpotato, November 8-9, 2000, St. John's, Antigua

Jackson, D.M., J.R. Bohac, K.M. Dalip, J. Lawrence, D. Clarke-Harris, F. MacDonald, L. McComie, J. Gore, D. McGlashan, P. Chung, S. Edwards, S. Tolin, and C. Edwards. 2000. Sweetpotato IPM in the Caribbean. Poster presented at: Annual Meeting of the Entomological Society of America, December 3-7, 2000, Montreal, Canada

Jackson, D.M., J.R. Bohac, K.M. Dalip, J. Lawrence, D. Clarke-Harris, F. MacDonald, L. McComie, J. Gore, D. McGlashan, P. Chung, S. Edwards, S. Tolin, and C. Edwards. 2000. Sweetpotato IPM in the Caribbean. Poster presented at: 39<sup>th</sup> Annual Sweet Potato Convention, Jan. 28-30, 2001, Orange Beach, Alabama

Jackson, D.M., J.R. Bohac, K.M. Dalip, J. Lawrence, D. Clarke-Harris, F. MacDonald, L. McComie, J. Gore, D. McGlashan, P. Chung, S. Edwards, S. Tolin, and C. Edwards. 2000. Sweetpotato IPM in the Caribbean. Poster presented at: 4<sup>th</sup> IPM CRSP Symposium, 16-19 May 2001, Virginia Tech University, Blacksburg, VA.

Jackson, M. 2000. Poster on IPM CRSP presented at Annual Meeting of the Entomological Society of America, 3-7 December 2000, Montreal, Canada.

Lawrence, J. and D. Clarke-Harris. 1998. Networking for Sustainable IPM Solutions. The 2<sup>nd</sup> Caribbean IPM Network Meeting (February 4 – 6, 1998). Kingston, Jamaica.

McDonald F.D. 2000. IPM CRSP Research Activities, Poster Presentation at the Denbigh Agricultural Show August 5-7,2000.

McDonald F.D. 2000. Research in Hot Pepper, Poster Presentation at the CARDI Open Session , February 2000.

McDonald, S. A. 2000. Seasonal abundance and diversity of aphids in Jamaican hot pepper cropping systems. Presented as poster at the 16<sup>th</sup> annual research symposium of Virginia Tech, March 2000.

McDonald, S. A., B. Nault, S. Halbert, S. Tolin and L Nault. 1999. Seasonal abundance and diversity of aphids in Jamaican hot pepper cropping systems. Presented as poster at the annual meeting of the American Entomological Society, December 1999.

McDonald, S., S. Tolin, B. Nault, J. Reid, T. Mack, and L. Nault. 2000. Field spread of TEV in Jamaican hot pepper variety. Poster presented at the Annual meeting of the American Phytopathological Society.

Peterson, J. K., H. F. Harrison, Jr., M. E. Snook, and D. M. Jackson. 1998. Approaches to the quantitative estimation of multiple resistances in sweet potato. Eighth meeting of the IOBC/EUCARPIA Working Group

## Publications/Products List

on Breeding for Resistance to Insects and Mites, "Breeding for Resistance to Insects and Mites", Dundee, Scotland, 14-17 September 1998.

### Kenya

Amata, R. L., Otipa, M. J., Wabule, M., Kinyua, Z. M., Kyamanyua, S., Erbaugh, J. M. and Miller, S. 2008. Fungal pathogens associated with Passion fruit crop in Kenya. A poster presented in the IPM CRSP Workshop, Manila, Philippines (May 19-22).

Mbaka J, L. Wasilwa and M. Maina. 2009. Banana for food, income and Nutrition Security: the role of macro and micro propagation in Kenya. Poster presented at All Africa Horticulture Congress, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya. *Book of Abstract p.*

Mbaka, J.N., M.M. Waiganjo and Z. Kinyua. 2008. Creation of awareness on banana Xanthomonas wilt (*Xanthomonas campestris* pv *musacearum*) in Kenya.

Otipa, M. J, R.L. Amata, M. Waiganjo, J.G. Mureithi, L. Wasilwa, L. Ateka, E. Mamati, D. Miano, J. Kinoti, S. Kyamanywa, M. Erbaugh and S. Miller. 2009. Challenges facing Passion fruit Smallholder Pro Poor farmers in North Rift Region of Kenya. A poster presented at All Africa Horticulture Congress, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya.

Poster presented during the 8<sup>th</sup> Workshop on Sustainable Horticultural Production in the Tropics held at Masinde Muliro University of Science and Technology (MMUST), KAKAMEGA December 8<sup>th</sup>-11<sup>th</sup> 2008. *Book of Abstract p.42*

Waiganjo M. M; Waturu, C.N; Njuguna J.K; Mbugua, G.W; Gitonga, L.W. Banana Production Challenges and Some Research Interventions Undertaken by KARI-Horticultural Program under the USAID-SO7 Project. Poster presented at The International conference on Banana and plantain in Africa: Harnessing International partnerships to increase research impact. Mombasa, Kenya, October 5<sup>th</sup> -9<sup>th</sup>, 2008.

Waiganjo M.M, B.M. Ngari, S.B. Wepukhulu, S.N. Kuria, M.N. Wabule, M. Erbaugh, J. Kovach and D. Taylor. 2009. Ascertaining survey information through Biological Monitoring: A case study of Tomato pest management practices in Kirinyaga District, Kenya. A poster presented at All Africa Horticulture Congress, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya.

Waiganjo M.M., C.N. Waturu, J.K. Njuguna G.W. Mbugua. and L. Gitonga. 2008. Banana Production Challenges and Some Research Interventions Undertaken By KARI-Horticultural Program Under The USAID-SO7 Project. Poster presented during the International Conference on Banana and Plantain: Harnessing international partnerships to increase research impact' held at Leisure Lodge Resort Mombasa Kenya 5-9<sup>th</sup> October, 2008. *Book of Abstracts p.143-144*

### Mali

Cobb, J.M., P.A. Hipkins, D.E. Mullins, H.K. Traoré, S.B. Dem, H. Ahamadou Maïga, H.M. McNair. 2001. Laboratory Technical Support and Pesticide Safety Education: Ensuring Mali's Place in Green Bean Export Markets. IPM CRSP Annual Meeting at Blacksburg, VA on May 16-19, 2001. Halima Traoré and Safiatou Dem translated the poster from English to French.

Dunkel, F.V. 2002. Discovery-based undergrad opportunities: Collaborative Research Support Programs. Poster documenting 2 years of model testing in IPM CRSP-Mali. Presented at the Annual Meetings of the IPM CRSP. 17 May 2002. Blacksburg VA.

Dunkel, F.V., Z. Anderson, C. Smith, P. Dembele, O. Cisse, Y. Kone, and K. Gamby. 2000. Visual System to transfer IPM CRSP technologies to Malian Farmers. Poster series with written dialogue for facilitator. Series of 40 posters.

## Publications/Products List

Noussourou, M., K.T. Gamby, A.D. Nantoume, A.I. Kollo, R. Gilbertson, R. Foster, A. Diarra, and L. Vaughan. 2009. Integrated control strategies for tomato viruses in Mali, West Africa. Sixth International IPM Symposium "Transcending Boundaries", March 24-26, 2009. Portland, OR

Sissoko, H.T., K.M. Moore, A. Yeboah, M.K. Diallo and P.S. Sow. 2001. "Gender Conditions in Malian Tomato Production". Poster presented at the IPM CRSP Symposium 2002. Blacksburg, Virginia.

Sissoko, H.T., K.M. Moore, A. Yeboah, M.K. Diallo and P.S. Sow. 2001. Gender Conditions in the Malian Green Bean Industry. Poster presented at the IPM CRSP Symposium 2001. Blacksburg, Virginia.

### Philippines

Alberto, R.T, N.L. Opina., S.E. Santiago and S. A. Miller. 1999. Cultural management and genetic resistance of bacterial wilt on eggplant. Poster presented during 13<sup>th</sup> National Rice Research and Development (R&D) Conference held on March 1-3, 2000 at PhilRice Central Experiment Station, Muñoz, Nueva Ecija.

Alberto, R.T., M.S.V. Duca, S.E. Santiago, N.L. Opina, L.E. Padua and S.A. Miller. 2002. Management of soil-borne diseases in rice-vegetable systems. Poster presented at the 33<sup>rd</sup> Pest Management Council of the Philippines Conference, May 8-10, 2002 Davao City, Philippines.

Alberto, R.T., S.E. Santiago, E. Gergon, L.S. Sebastian, M.C.B. Falla and S.A. Miller. 2000. Molecular Detection of *Phoma terrestris* Using Polymerase Chain Reaction Assay. 31<sup>st</sup> Pest Management Council of the Philippines Convention. Hotel Supreme, Baguio City. May 3-6, 2000.

Alberto, R.T., S.V. Duca, and S.E. Santiago. 2001. Screening Commercial Onion Cultivars for Resistance to Anthracnose (*Colletotrichum gloeosporioides*). Poster presented during the 15<sup>th</sup> Rice R&D Conference, PhilRice Nueva Ecija, on March 1-10, 2001.

Alberto, R.T., S.V. Duca, and S.E. Santiago. 2001. Screening Commercial Onion Cultivars for Resistance to Anthracnose (*Colletotrichum gloeosporioides*). Poster presented at Pest Management Council of the Philippines in Camarines Sur from May 2-6, 2001.

Angeles, A. T., F. R. Sandoval, N. V. Desamero, S. C. M. Suratos. Identification of Eggplant Lines Resistant to Fruit and Shoot Borer Through Field Screening. Poster presented during the Pest Management Council of the Philippines 42<sup>st</sup> Anniversary and Annual Scientific Conference, L' Fisher Hotel, Bacolod City, Philippines. May 3-6.

Arida, G. S., B.S. Punzal, A.A. Duca and E.G. Rajotte. 2004. Management of *Spodoptera litura* (F.) and *S. exigua* (Hubner) in Onion by Mass Trapping and Timing of Interventions in Farmers' Fields. 4 Total Presented during the

A. 35<sup>th</sup> Anniversary and Annual Convention of the Pest Management Council of the Philippines, Amigo Terrace Hotel, Iloilo City, March 16-19, 2004;

B. 17<sup>th</sup> National R&D Meeting. PhilRice, Maligaya, Science city of Munoz, Nueva Ecija. 13-15 April 2004;

C. Asian Regional IPM CRSP Workshop Impacts and Lessons Learned held in New World Renaissance Hotel, Makati City on June 29-30, 2004;

D. 15<sup>th</sup> Regional Symposium on Research and Development Highlights. Central Luzon Agriculture and Resources Research and Development Consortium (CLARRDEC). PhilRice, Science City of Munoz, Nueva Ecija. Aug. 3-4, 2004

Arida, G. S., B.S. Punzal, C.C. Ravina Jr., E.G. Rajotte, and N.S. Talekar. 2002. Insecticide application against *Spodoptera litura* (F.) and *S. exigua* Hubner based on trends in sex pheromone trap catches. Poster presented at the 15<sup>th</sup> National Rice R&D Meeting. April 10-12, PhilRice, Science City of Munoz. Philippines.

## Publications/Products List

- Arida, G. S., B.S. Punzal, C.C. Ravina Jr., E.G. Rajotte, and N.S. Talekar. 2002. Insecticide application against *Spodoptera litura* (F.) and *S. exigua* Hubner based on trends in sex pheromone trap catches. Poster presented at the 33<sup>rd</sup> Annual Meeting of the Pest Management Council of the Philippines. March 8-10, Davao City, Philippines.
- Arida, G. S., B.S. Punzal, C.C. Ravina Jr., E.G. Rajotte, and N.S. Talekar. 2002. Insecticide application against *Spodoptera litura* (F.) and *S. exigua* Hubner based on trends in sex pheromone trap catches. Poster presented at the IPM- CRSP Technical Committee Meeting. Virginia Tech and State University, May 13-17, 2002.
- Arida, G. S., C.C. Ravina Jr., B.S. Punzal, E.R. Tiongco and E.G. Rajotte. 2001. Response of the onion plant to simulated pest damage. Poster presented during the IPM CRSP Technical Committee meeting held on May 16-19, 2001. Virginia Polytechnic Institute and State University.
- Arida, G. S., C.C. Ravina Jr., B.S. Punzal, E.R. Tiongco and E.G. Rajotte. 2001. Response of the onion plant to simulated pest damage. Poster presented during 12th Annual Regional Symposium on R&D Highlights of the Central Luzon Agriculture and Resources Research and Development Consortium. August 17, 2001. Bataan State College, Bataan.
- Arida, G.S., C.C. Ravina Jr., B.S. Punzal, E.G. Rajotte, and N.S. Talekar. 2002. Population dynamics of the onion leafminer *Liriomyza trifolii* (Burgess) in sprayed and unsprayed fields. Poster presented at the 35<sup>th</sup> Pest Management Council of the Philippines Conference, May 8-10, Davao City, Philippines.
- Arida, G.S., C.C. Ravina Jr., B.S. Punzal, E.G. Rajotte, and N.S. Talekar. 2002. Population dynamics of the onion leafminer *Liriomyza trifolii* (Burgess) in sprayed and unsprayed fields. Poster presented at the IPM-CRSP Technical Committee Meeting and Symposium, Virginia Tech, USA.
- Arida, G.S., C.C. Ravina Jr., B.S. Punzal, E.R. Tiongco, E.G. Rajotte, and N.S. Talekar. 2002. Population dynamics of leafminer *Liriomyza trifolii* (Burgess) in onion. Poster presented at the 15<sup>th</sup> National Rice R&D Meeting, April 10-12, Science City of Muñoz, Nueva Ecija, Philippines.
- Arida, G.S., V.P. Gapud, C.V. Pile, B.E. Santiago, N.S. Talekar, and E.G. Rajotte. 1999. Monitoring Adult Densities of *Spodoptera* spp. in onion with Sex Pheromone Traps. Poster Paper presented during the 30<sup>th</sup> Annual Scientific Meeting of the Pest Management Council of the Philippines. May 4-6, 1999. Philippine Rice Research Institute, Muñoz, Nueva Ecija.
- Balagot, G.E., G.S. Arida, V.P. Gapud, and E.G. Rajotte. 2000. Larval Parasitism of Field Collected Eggplant Fruit and Shoot Borer. Poster presented during the 13<sup>th</sup> National Rice R and D meeting. PhilRice, Muñoz, Nueva Ecija.
- Baltazar, A. 2004. Taming the world's worst weed: lessons from onion. Presented during the Asian Regional IPM CRSP Workshop Impacts and Lessons Learned held in New World Renaissance Hotel, Makati City in June 29-30, 2004.
- Brown, M. B., E.B. Gergon, E.M. Luis, E.H. Lales, C.S. Escaño, A.M. Castro, M.M. Antolin, and S.A. Miller. 2004. Utilization of vesicular arbuscular mycorrhizae in vegetable production Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, New World Renaissance Hotel, Makati City, June 29-30, 2004; 15th Regional Symposium on Research and Development Highlights. Central Luzon Agriculture and Resources Research and Development Consortium (CLARRDEC). PhilRice, Science City of Munoz, Nueva Ecija. Aug. 3-4, 2004.
- Caasi-Lit, M. T., V. P. Gapud, B. A. Santiago, C. V. Pile, G. E. Balagot, N. S. Talekar and E.G. Rajotte. 2000. Resistance Screening of Farmers' and Commercial varieties of eggplant against the leafhopper, *Amrasca biguttula* (Ishida). Poster paper presented during the 23<sup>rd</sup> Annual Scientific of the National Academy of Science and Technology. Manila Hotel 5-6 July 2000.

## Publications/Products List

Caasi-Lit, M., V. P. Gapud, B. A. Santiago, C. V. Pile, G. E. Balagot, N. S. Talekar and E. Rajotte. 1999. Resistance screening of farmers' and commercial varieties of eggplant against the leafhopper, *Amrasca biguttula* (Ishida). Poster paper presented during the Farmer's Forum "Presentation of IPM CRSP Research/Technologies in Collaboration with NOGROCOMA Farmer Members". July 30, 1999, PhilRice, Maligaya, Muñoz, Nueva Ecija.

Caasi-Lit, M., V.P. Gapud, B.A. Santiago, C.V. Pile, G.E. Balagot, N.S. Talekar and, E.G. Rajotte. 1999. Major insect pests of eggplant, *Solanum melongena* L., and their natural enemies. Poster paper during the Annual Scientific Meeting of the Pest Management Council of the Philippines, May 6, 1999, PhilRice, Maligaya, Muñoz, Nueva Ecija.

Caasi-Lit, M.T., M.A.A. Capricho, R.V. Lapiz and R.P. Urriza. 2002. Resistance of native varieties and wild relatives of eggplant (*Solanum melongena* L.) against the leafhopper, *Amrasca biguttula* Ishida and eggplant fruit/shoot borer, *Leucinodes orbonalis* Guenee. Poster paper presented at the Annual Scientific Meeting of the National Academy of Science and Technology. Manila Hotel, Manila, Philippines. 11-12 July 2002.

Caasi-Lit, M.T., N.L. Opina, R.G. Maghirang, E.G. Rajotte, M.A.A. Capricho, R.V. Lapiz and R.P. Urriza. 2002. Identification of eggplant varieties resistant to leafhopper, shoot/fruit borer and bacterial wilt. Poster paper presented at the Pest Management Council of the Philippines 33<sup>rd</sup> Annual Conference. Davao City. May 7-10, 2002.

Caasi-Lit, M.T., R.V. Lapiz, M.A.A. Capricho, R.P. Urriza and R.J. Humol. 2002. Yield and resistance of eggplant accessions/varieties against leafhopper, *Amrasca biguttula* Ishida and eggplant borer, *Leucinodes orbonalis* Guenee. Poster paper presented at the Annual Scientific Meeting of the National Academy of Science and Technology. Manila Hotel, Manila, Philippines. 11-12 July 2002.

Caasi-Lit, M.T., V.P. Gapud, B.A. Santiago, C.V. Pile, G.E. Balagot, N.S. Talekar and E.G. Rajotte. 2000. Resistance screening of farmers' and commercial varieties of eggplant against the leafhopper, *Amrasca biguttula* (Ishida). Poster paper presented during the 23<sup>rd</sup> Annual Scientific Conference of the National Academy of Science and Technology. Manila Hotel 5-6 July 2000.

Duca, M.S.V., Alberto, R.T., S.E. Santiago and S.A. Miller. 2003. Integrated management of anthracnose (*Colletotrichum gloeosporioides*), a disease of increasing importance in onion. 4 Total Poster presented during:

- A. 17th National Rice R & D Conference, 13-15 April 2004, PhilRice, Maligaya, Science City of Muñoz;
- B. 35th Pest Management Council of the Philippines Conference, Amigo Terrace Hotel, Iloilo City, March 16-19, 2004;
- C. Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, New World Renaissance Hotel, Makati City, June 29-30, 2004;
- D. and 15th Regional Symposium on Research and Development Highlights. Central Luzon Agriculture and Resources Research and Development Consortium (CLARRDEC). PhilRice, Science City of Munoz, Nueva Ecija. Aug. 3-4, 2004

Gergon, E.B and S.A. Miller. 2000. Rice hull burning: A farmer's technology for management of root-knot disease in rice-onion cropping system. Poster presentation: National Academy of Science and Technology Conference, Manila, July 5-6, 2000.

Gergon, E.B., M.B. Brown, and S.A. Miller. 2004. Influence of mycorrhizal fungi on growth and yield of onion (*Allium cepa* L.) in *Meloidogyne graminicola*-infested soil. Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, New World Renaissance Hotel, Makati City, June 29-30, 2004.

## Publications/Products List

- Gergon, E.B., S.A. Miller, J.M. Halbrendt, and R.G. Davide. 2004. Root-knot disease of onion: Occurrence, varietal reaction, and effect on growth and yield of 'Yellow Granex 429'. Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, New World Renaissance Hotel, Makati City, June 29-30, 2004.
- Gergon, E.B., S.A. Miller, J.M. Halbrendt, and R.G. Davide. 2004. Management of root-knot disease of onion (*Allium cepa* L.) caused by *Meloidogyne graminicola*, Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, New World Renaissance Hotel, Makati City, June 29-30, 2004; 15th Regional Symposium on Research and Development Highlights. Central Luzon Agriculture and Resources Research and Development Consortium (CLARRDEC). PhilRice, Science City of Muñoz, Nueva Ecija. Aug. 3-4, 2004.
- Gergon, E.B., S.R. Francisco, A.M. Baltazar. 2001. Management of rice root-knot nematode in rice-onion cropping system. Poster paper presented at the Asian Agricultural Congress. April 24-26, 2001. Westin Philippine Plaza, Manila.
- Gergon, E.B., S.R. Francisco, A.M. Baltazar. 2001. Impact of rice hull burning on onion production. Poster presented during the Pest Management Council of the Philippines Conference, May 2-4, 2001, Camarines Sur Agricultural College, Pili, Camarines Sur. (This poster was among the 5 finalists for Best Poster selected from 18 competing papers.)
- Gergon, E.B., S.R. Francisco, A.M. Baltazar. 2001. Impact of rice hull burning on onion production. Poster paper presented during the 14th Rice R and D Conference. March 7-9, 2001. PhilRice, Muñoz, Nueva Ecija.
- Lit, M.C., V.P. Gapud, C.V. Pile, B.A. Santiago, G.E. Balagot, N.S. Talekar, E.G. Rajotte. 1999. Posters as part of the Training Manual prepared by the IPM CRSP group during Farmer's Forum and Trainers Training.
- Malasa, R.B. and S.M. Roguel. 2002. Social impact assessment of rice hull burning and stale-seedbed techniques. Poster presented at the IPM CRSP Technical Committee Meeting and Symposium. Virginia Tech, Blacksburg, VA. May 2002.
- Martin, E. C., A. M. Baltazar, J. M. Ramos, R. P. Robles, S. K. De Datta, L. T. Kok, and E. G. Rajotte. 2004. Efficacy of *Spoladea recurvalis* as biological control agent against *Trianthema portolacastrum* Linn. 3 Total Presented during the:
- A. 35th Anniversary and Annual Convention of the Pest Management Council of the Philippines, Iloilo City, March 16-19, 2004;
  - B. 17th National R&D Review and Planning Workshop held at PhilRice on April 13-15, 2004; Asian Regional IPM CRSP Workshop Impacts and Lessons Learned held in New World Renaissance Hotel, Makati City on June 29-30, 2004;
  - C. 15th Regional Symposium on Research and Development Highlights. Central Luzon Agriculture and Resources Research and Development Consortium (CLARRDEC), PhilRice, August 3-4, 2004.
- Opina, N.L., R.T. Alberto, B.E. Santiago, E.R. Tiongco, and S.A. Miller. 1999. "Bacterial Wilt on Eggplant Caused by *Ralstonia solanacearum*". Presentation of IPM-CRSP Research/Technologies in collaboration with NOGROCOMA Members on July 30, 1999 at PhilRice, Muñoz, Nueva Ecija
- Opina, N.L., R.T. Alberto, S.E. Santiago and S. A. Miller. 2000. Management of bacterial wilt of eggplant caused by *Ralstonia solanacearum*. Poster presented during the 31<sup>st</sup> annual Scientific Meeting of the Pest Management Council of the Philippines. May 3-6, 2000, Supreme Hotel, Baguio City.
- Padua, L.E., A.C. Lopus, V.P. Gapud, C.V. Pile, B.E. Santiago, N.S. Talekar, V.F. Recta, and E.G. Rajotte. 1999. Potential of Bt+NPV for the Control of *Spodoptera* on Onions in Central Luzon, Philippines. Joint annual meeting of the Entomological Society of America and Phytopathological Society of America, November 8-12, 1998, Las Vegas, Nevada, USA.

## Publications/Products List

Padua, L.E., A.C. Lapus, V.P. Gapud; L.S. Sebastian; N.S. Talekar; K. Hoover, L.E.-Carlson, E.G. Rajotte. 2000. Potential of Nuclear Polyhedrosis Virus (NPV) and *Bacillus thuringiensis* (Bt) for *Spodoptera* Control In Yellow Granex Onions. Annual R & D Review of the Philippine Rice Research Institute (PhilRice), in March, 2000 at PhilRice, Muñoz, Nueva Ecija.

Padua, L.E., A.C. Lapus, V.P. Gapud; L.S. Sebastian; N.S. Talekar; K. Hoover, L.E.-Carlson, E.G. Rajotte. 2000. Potential of Nuclear Polyhedrosis Virus (NPV) and *Bacillus thuringiensis* (Bt) for *Spodoptera* Control In Yellow Granex Onions. 31<sup>st</sup> Annual Scientific Convention of the Pest Management Council of the Philippines held on May 3-6, 2000 at Hotel Supreme, Baguio City.

Punzal, B. S., G. S. Arida, A. A. Duca and E. R. Tiongco. 2004. Parasitoid abundance, incidence of larval parasitism and effect of trap color on the attraction of the onion leafminer, *Liriomyza trifolii* (Burgess). 4 Total Presented during:

A. 35th Anniversary and Annual Convention of the Pest Management Council of the Philippines, Amigo Terrace Hotel, Iloilo City, March 16-19, 2004;

B. 17th National R&D Meeting. PhilRice, Maligaya, Science city of Munoz, Nueva Ecija. 13-15 April 2004;

C. Asian Regional IPM CRSP Workshop Impacts and Lessons Learned held in New World Renaissance Hotel, Makati City, June 29-30, 2004;

D. 15th Regional Symposium on Research and Development Highlights. Central Luzon Agriculture and Resources Research and Development Consortium (CLARRDEC), PhilRice, August 3-4, 2004.

Punzal, B.S., G.S. Arida, N.S. Talekar, and E.G. Rajotte. 2000. Sex Pheromone Trap Catches of *Spodoptera* spp. in Rice-Onion Cropping System. Poster presented during the 13<sup>th</sup> National Rice R and D meeting. 1-3 May. PhilRice, Muñoz, Nueva Ecija.

Punzal, B.S., G.S. Arida, C.C. Ravina Jr., E.G. Rajotte, and N.S. Talekar. 2001. Sex pheromone in pest management: Surveillance and monitoring of cutworm *Spodoptera litura* and beet armyworm *S. exigua*. Poster presented at the 14th National Rice R&D Meeting. PhilRice, Muñoz, Nueva Ecija, 7-9 March 2001.

Punzal, B.S., G.S. Arida, C.C. Ravina Jr., E.G. Rajotte, and N.S. Talekar. 2001. Sex pheromone in pest management: Surveillance and monitoring of cutworm *Spodoptera litura* and beet armyworm *S. exigua*. Poster presented at the 34th Pest Management Council of the Philippines Meeting. May 2-6, 2001, Pili, Camarines Sur.

Ravina, C.C., G.S. Arida, B.S. Punzal, E.G. Rajotte, and N.S. Talekar. 2002. Response of the onion plant to simulated damage caused by onion defoliators. Poster presented at the IPM CRSP Technical Committee Meeting. Virginia Tech, Blacksburg, VA May 13-17, 2002.

Ravina, C.C., GS Arida, N.S. Talekar, and E.G. Rajotte. 2000. Net Barreir for the Management of the Eggplant Fruit and Shoot Borer *Leucinodes orbonalis* Guenee. Poster presented during the 13<sup>th</sup> National Rice R and D meeting. 1-3 May. PhilRice, Muñoz, Nueva Ecija.

Ravina Jr., C.C., G.S. Arida, B.S. Punzal, and E.G. Rajotte. 2001. Response of the onion plant to simulated damage caused by defoliators. Poster presented during the 14th National Rice R and D meeting. March 7-9, 2001. PhilRice, Muñoz, Nueva Ecija, Philippines.

Ravina Jr., C. C., G.S. Arida, B.S. Punzal, and E.G. Rajotte. 2001. Response of the onion plant to simulated damage caused by defoliators. Poster presented during the 34th Pest Management Council of the Philippines. May 2-6, 2001. Pili, Camarines Sur, Philippines.

Santiago, S.E., D.T. Eligio, R.T. Alberto and S.A. Miller. 2003. Effect of Nitrogen on Bulb Rot Incidence in Onion during Storage. Retarding Bulb Rot Incidence in Onion with Selected Curing and Storage Methods. 3 Total Poster presented:



## Publications/Products List

- A. 17th National Rice R & D Conference, held in PhilRice, Maligaya, Science City of Muñoz;
- B. 35th Pest Management Council of the Philippines Conference, Amigo Terrace Hotel, Iloilo City and Asian Regional IPM CRSP Workshop: Impacts and Lessons Learned, New World Renaissance Hotel, Makati City, June 29-30, 2004; and
- C. 15th Regional Symposium on Research and Development Highlights. Central Luzon Agriculture and Resources Research and Development Consortium (CLARRDEC). PhilRice, Science City of Munoz, Nueva Ecija. Aug. 3-4, 2004

Santiago, S.E., N.L. Opina, R.T. Alberto, and S.A. Miller. 2002. Cultural management and genetic resistance for the control of bacterial wilt in eggplant. Poster presented at the National R&D conference, PhilRice, Muñoz, Nueva Ecija, March 2002.

Santiago, S. E., J. M. Ramos, S. R. Brena, H. R. Rapusas, M. Hammig, B. M. Shepard. Effect of Pre-harvest Application Of VAM and *Trichoderma* sp. on the Shelf Life of Onion. Poster presented during the Pest Management Council of the Philippines 42<sup>st</sup> Anniversary and Annual Scientific Conference, L' Fisher Hotel, Bacolod City, Philippines, May 3-6.

Tanzo, I.R. and S.L. Hamilton. 2000. Pest Management Practices of Rice-Onion Farmers in Nueva Ecija. Scientific poster presented during the 31<sup>st</sup> Anniversary and Annual Scientific Convention of the PMCP, held at Baguio City, 3 - 6, May 2000.

Tanzo, I.R., V.P. Gapud, S.R. Francisco, K.L. Heong, S. Hamilton, G. Norton, and E.G. Rajotte. 1999. 'Women at Work: Gender Issues in Rice-Onion Farming Systems'. Poster presented at the 30<sup>th</sup> Annual Scientific Meeting of the Pest Management Council of the Philippines, May 4 - 6, 1999 at PhilRice, Muñoz, Nueva Ecija, Philippines.

Tanzo, I.R., V.P. Gapud, S.R. Francisco, K.L. Heong, S. Hamilton, G. Norton, and E.G. Rajotte. 1999. 'Women at Work: Gender Issues in Rice-Onion Farming Systems'. Poster presented at the 15<sup>th</sup> Annual Scientific Conference of the Federation of Crop Science Societies of the Philippines, May 10 - 15, 1999 at the Family Country Hotel and Convention Centre, General Santos City, South Cotabato, Philippines.

Tjornhom, J.D., G.W. Norton and V.P. Gapud. 1997. Pesticide policy dimension of integrated pest management. International Association of Agricultural Economists Meeting. Sacramento, CA, August 12, 1997.

### Tanzania

Erbaugh, J.M., S. Kyamanywa, A. Maerere, and M. Wabule. Regional IPM CRSP Program for East Africa: Kenya, Tanzania, and Uganda. Presented at the Annual IPM CRSP meeting in Manila, Philippines, May 2008.

Erbaugh, M. Efficacy of various management practices on tomato (*Lycopersicon esculentum* Mill) pests: A case study for Morogoro, Tanzania

Hosea D. Mtui, Mark A. Bennett, Amon P. Maerere, Sally A. Miller and Matthew D. Kleinhenz: Effect of seed treatments on seedborne bacterial pathogens of tomato (*Lycopersicon esculentum* Mill.) in Tanzania. Presented at the Annual IPM CRSP meeting in Manila, Philippines, May 2008.

Maerere, A. P., Mwajombe K.K., Sibuga, K.P., Kovach, J., and Erbaugh, M. Baseline survey of tomato (*Lycopersicon esculentum* Mill.) production in Mvomero district, Morogoro region in Tanzania

Sibuga, K.P., Bulali, J. E. M., Maerere, A. P., Mwatawala, M. W., Kovach, J., Kyamanywa, S., and

## Uganda

- Akemo, M.C., C. Ssekyewa, S. Kyamanywa, A. Ekwamu, E. Kagezi, G. Luther, M. Erbaugh. 2001. Developing IPM technologies for tomato production in Namulonge sub-county, Mpigi District. Poster presented at the IPM CRSP Uganda site planning workshop in Jinja, April 2001.
- Akemo, M.C., C. Ssekyewa, S. Kyamanywa, A. Ekwamu, E. Kagezi, G. Luther, M. Erbaugh. 2001. Developing IPM technologies for tomato production in Namulonge sub-county, Mpigi District. Poster presented at the Annual meeting of the IPM CRSP Blacksburg, Virginia, May 2001.
- Asiimwe, D., P. R. Rubaihayo, G. Tusiime, S. Kyamanywa, J. Karungi, and M. Erbaugh. 2011. Multilocation verification of resistance of MT56 to bacterial wilt in Uganda. A poster presented to the CRSP Council, Kampala, Uganda, July 26.
- Bigirwa, G. 2001. The influence of stover on the development of GLS epidemics. Poster: May 2001, Blacksburg, VA.
- Bigirwa, G., P.C. Pratt, P.E. Lipps, E. Adipala. 2002. The influence of mulch (infected stover) in the development of gray leaf spot epidemics. Poster: IPM Conference for Sub-Saharan Africa, Kampala, 8-12 September, 2002.
- Dinakaran, D., G. Gajendran, S. Mohankumar, G. Karthikeyan, S. Thiruvudainamibi, E.I. Jonathan, R. Samiyappan, and V. Jayabal. 2012. Popularization of integrated pest and disease management module for onion in India. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.
- Epieru, G., C. Mukankusi, S. Kyamanywa, H. Wilson, H. Warren and E. Adipala. 2001. Leaf miners a new pest of groundnut in Uganda. Poster presentation during the Fifth African Crop Science Conference, 21-26 October, 2001, Lagos Nigeria.
- Erbaugh, J.M., H. Willson, and S. Kyamanywa (1997). "Participatory Integrated Pest Management in Uganda: Merging Local and Scientific Knowledge Systems". Poster Presentation at the Association for International Agricultural and Extension Education (AIAEE) Conference, April 3-5, 1997, Washington, D.C. \* Received an outstanding poster presentation award.
- Erbaugh, J.M., J. Karungi, P. Kucel, and J. Kovach. 2012. Using farmer perceptions to establish an initial IPM research agenda for Arabica coffee production in Uganda. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.
- Gordon, S., M. Bartsch, I. Matthies, H. Gevers, P.E. Lipps and R.C. Pratt. 2002. Mapping *Cercospora zeaemaydis* Resistance QTLs Across Multiple Environments." Wooster, OH, April 23, 2002.
- Gordon, S., M. Bartsch, I. Matthies, H. Gevers, P.E. Lipps and R.C. Pratt. 2001. Genetic Mapping of *Cercospora zeaemaydis* Resistance QTLs in Maize. Poster at Crop Science Society of America Annual Meeting, Charlotte, North Carolina, Oct. 21-25, 2001.
- Hakiza, J.J., E. Adipala, S. Namanda, M. Olanya, A.S. Bhagsari. 2001. Assessment of the Impact of Planting Date on Potato Late Blight Severity and Yield Under Different Fungicide Spray Regimes. Poster presented during IPM CRSP Annual meeting March 2001.
- Kalule, T., S. Kyamanywa, J.A. Ogwang, C.O. Omwega and R. Hammond. 2002. Establishment of *Cotesia flavipes* a parasitoid of the stalk borer *Chilo partellus*, in selected districts Uganda. Presented Poster at the IPM Annual meeting, 2002.
- Karughi, J., J. Kwesiga, W. Ekere, R.G. Nalugo, F. Muzira, M.K.M. Ochwo-ssmakula, and S. Kyamanywa. 2012. Influence of socioeconomic factor in usage of IPM among hot pepper producers in Uganda. 7<sup>th</sup>

## Publications/Products List

International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Karungi, J., G. Tusiime, P.R. Bubaihooy, R.N.Ssonko, D. Asiimwe, S. Kyamanywa, J. Kovach, S. Miller, and J.M. Erbaugh. 2012 Integrated pest management of *Ralstonia solanacearum* on tomato in Uganda. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Karungi, J., P. Agamire, J. Kovach and S. Kyamanywa. Cover cropping and novel pesticide usage in the management of pests of hot pepper (*Solanum chinense*) to the International Journal of Tropical Science for publication where it is under review.

Kyamanywa, S, P. Kucel, G. Kagezi, J. Kovach, and M. Erbaugh. 2011. Developing and disseminating IPM packages for key insect pests of coffee in Uganda. A poster presented to the CRSP Council, Kampala, Uganda, July 26.

Kyamanywa, S., P. Kucel, G. Kagezi, K. Nafuna, C. Ssemwogerere, J. Kovach, and M. Erbaugh. 2012. IPM of the white stem borer and root mealybugs on Arabica Coffee in the Mt Elgon region in Uganda. 7<sup>th</sup> International Integrated Pest Management Symposium. IPM on the World Stage, March 27-29, Memphis, Tennessee.

Nabirye J. 2001. Farmer participatory evaluation of cowpea Integrated Pest Management technologies in eastern Uganda. Poster presented during the IPM CRSP Annual Planning Workshop held on April 19-21, 2001 at Jinja, Uganda.

Nabirye J. 2001. Farmer participatory evaluation of cowpea Integrated Pest Management technologies in eastern Uganda. Poster presented during the Annual IPM CRSP Workshop at Virginia Tech.

Nabirye, J. 2001. Determination of Economic Injury levels (EILs) on Cowpea. Poster: Two season data was presented during the IPM CRSP Annual Planning Workshop held on April 19-21, 2001, Jinja, Uganda.

Nabirye, J. 2001. Determination of Economic Injury levels (EILs) on Cowpea. Poster: Two season data was presented at Virginia Tech in May 2001.

Namanda, S., E. Adipala, M. Olanya, R. El-Bedewy, J.J. Hakiza and A.S. Bhagsari. 2000. Integration of host resistance and minimum fungicide application for management of potato late blight in southwestern Uganda. Paper presented at the 5<sup>th</sup> Biennial Conference of the African Crop Science Society, October 21-26, 2001, Lagos, Nigeria. (Poster).

Ssemwogerere, C., S. Kyamanywa, J. Karungi, P. Kucel, and J. Kovach. 2011. Efficacy of timed and number-specific of foliar/soil pesticide applications in the management of Arabica coffee pests. "Watambue wadudu waharibifu wa Kahawa na jinsi ya kuwadhhibiti (Insect pests of coffee)." A poster presented to the CRSP Council, Kampala, July 26.

Ssemwogerere, C., S. Kyamanywa, J. Karungi, P. Kucel, and J. Kovach. 2011. Efficacy of timed and number-specific of foliar/soil pesticide applications in the management of Arabica coffee pests. "Udhhibiti Husishi wa Wadudu Wharibifu wa Kahawa (Coffee IPM)." A poster presented to the CRSP Council, Kampala, July 26.

Willson, H., M. Erbaugh and S. Kyamanywa. 1996. "Development of a Participatory Integrated Pest Management Program in Uganda." National Meeting of the Entomological Society of America, Winter, 1996, Louisville, Kentucky.

## 14. FACT SHEETS

### General/World

Aitmatov, M., B. Masaidov and N. Saidov. 2008. Brochure on “Botanical pesticides to control vegetables and fruit pests” (in Kyrgyz and Russian). 46 pages. 100 copies published.

Anon. 2010. Botanical pesticides in agriculture; Tashkent -2010, (in Russian and Uzbek).

Anon. 2010. Phytocid mites as field, orchard and garden crops protectors, Tashkent-2010, (in Russian and in Uzbek).

Anon. 2010. Success Story: Central Asia IPM CRSP Project Outreach and Education - <http://www.ipm.msu.edu/asia/success.html>

Biofertilizer Production Vesicular Arbuscular Mycorrhizae (VAM). PhilRice 2009 No 61

Brown J. K. 2010. Candidatus Liberibacter Overview-PDF. A new type of bacterium associated with psyllids and plants.. Posted at the IPM CRSP website September 2010.

Effect on growth, yield and soil-borne disease incidence and severity on tomato, bell pepper and cucumber of the application of the antagonistic fungus *Trichoderma* sp and the mycorrhizal fungus *Glomus* sp to plant roots as biological pesticides. A technical report was written and published in the 2007 annual report of FHIA's Program on Horticultural Crops.

Evaluation of resistance of cacao genetic material to Black pod and Frosty pod rot using artificial inoculations. A technical report was written and published in the 2007 annual report of FHIA's Program on Cacao and Agroforestry.

FHIA. 2010. Development of Pictorial Guide to Assist in Decision-taking for Spraying Fungicides to Control Late Blight of Potatoes.

FHIA. 2010. Potato Psyllid: An Enemy Causing Important Losses in Honduras. FHIA's Plant Protection Series Fact Sheet No. 9.

*Insect pest identification manual*. 2008. Second edition. 4000 copies full color of this 90 pages manual. L Lastres and H Arguello Zamorano

Kleinhenz, M. D., W. Monicah, J. M. Erbaugh, and S. A. Miller. 2011. Tomato Grafting Guide: Preparing Grafted Tomato Plants using the Cleft Graft Method.

Mavlyanova, R., M. Aitmatov, N. Saidov and M. Shodmonov. 2008. Field guide “Weeds in vegetable crops” (in Russian). 36 p. 170 copies published.

Todiras, V. and V. Focsa. 2007. Use of Pyrethrin and Mineral Oil for Management of Pests in Greenhouse Vegetables.

Waiganjo, M., M. Kleinhenz, J. Mbaka, D. Gikaara, C. Gathambiri, J. Gitonga, M. Menza, J. Kiritu, M. Erbaugh, S. Miller. High tunnel tomato production. A Grower's Manual.

### Albania

Tedeschini, J., B. Stamo, B. Huqi, H. Pace, E. Isufi, H. Ismaili, Dh. Panajoti, M. Bacaj, M. McGiffen and L. Ferguson. 2001. In collaboration with Organic Agriculture Association, a brochure was prepared for the management of organic olive groves.

### East Africa

Waiganjo, M.M., Kyamanywa, S., Maerere, M., Sibuga, K., Amata, R., Kuria, S., Kahinga, J., Otipa, M., Erbaugh M., Kovach, J., Miller, S., Namirembe-Ssenko, R., Karungi, J., Ssemakula, M. 2010. Participatory IPM-CRSP Activities among Smallholder Horticultural Growers in East Africa. Poster presented during the Horticultural Collaborative Research Support Program (Hort CRSP) Inception Workshop held at the National Institute of Education, Singapore (16-18<sup>th</sup> May, 2010).

Waiganjo, M.M., Kyamanywa, S; Maerere, M; Sibuga, K; Amata, R; Kuria, S; Kahinga, J; Otipa, M; Erbaugh M.; S. Miller; Kovach, J; Namirembe-Ssenko, R; Karungi, J; Ssemakula, M. 2010. IPM CRSP Activities among Smallholder Growers in East Africa. Poster presented during the Tomato Grafting and High Tunnel workshop held at KARI-Thika on 12<sup>th</sup> -13<sup>th</sup> April 2010

- Tomato Yellow Leaf Curl Virus (TYLCV)
- Tomato Mosaic Virus (ToMV)
- Tomato Spotted Wilt Virus (TSWV)
- Passion fruit virus (PWV)
- Passion fruit collar rot disease
- Hot pepper viruses

### Eastern Europe

Tashpulatova B., Rashidov M.I., 2009, Test of a new pheromone against fruit bollworm (*Helicoverpa armigera*), Bulletin of Agrarian Science, # 1-2, p. 33-35 (Russian).

Tashpulatova, B. 2010 Brochure Food Security and Climate Change in CAC, 2009, ICARDA –CAC, Tashkent, p. 25-27 (English)

### Ecuador

Asaquibay, C.; Gallegos, P.; Arroyo, M.; Williams, R y Alwang, J. 2009. *Comportamiento y alternativas de control del gusano del fruto de la naranjilla (Neoleucinodes elegantalis)*. INIAP-IPM CRSP. Boletín Divulgativo No. 347. Quito, Ecuador. 16 pp.

Asaquibay, C.; Gallegos, P.; Arroyo, M.; Williams, R y Alwang, J. 2009. *Ciclo biológico, comportamiento y control del gusano del fruto de la naranjilla (Neoleucinodes elegantalis)*. INIAP-IPM CRSP. Plegable No. 318. Quito, Ecuador.

Asaquibay, C.; Núñez, N.; Gallegos, P. 2010 *Alternativas de control de la mosca de la fruta Anastrepha fraterculus Weidemann, en cherimoya Annona cherimola Mill.* INIAP Boletín Divulgativo No. 139. Quito. Quito, Ecuador. 16 pp.

Gallegos, P., C. Asaquibay, M. Freire and R. Williams. 2002. Ways of feeding of the adult of the Andean weevil *Premnotrypes vorax* H. in potato *Solanum tuberosum* L. Leaflet aimed to farmers. June, 2002. Quito, Ecuador.

Ochoa, J.; Ellis, M. y Alwang, J. 2010. *El Tizón y Lancha Blanca de la naranjilla y su control*. INIAP-IPM CRSP. Plegable No. 325. Quito, Ecuador.

Ochoa, J.; Ellis, M. y Alwang, J. 2010. *La Fusariosis de la naranjilla y su control*. INIA-IPM CRSP. Plegable No. 323. Quito, Ecuador.

Ochoa, J.; Ellis, M. y Alwang, J. 2010. *Ojo de pollo de la naranjilla y su control*. INIAP-IPM CRSP. Plegable No. 324. Quito, Ecuador.

## Publications/Products List

Ochoa, J.; Ellis, M.; Alwang, J. 2010 *El manejo de la "Fusariosis" como base para un cultivo ecológico de la naranjilla en el Ecuador*. INIAP-IPM CRSP. Boletín Divulgativo No. 138. Quito, Ecuador. 24 pp.

### **Ethiopia**

Management of white grubs. In September was finalized the fact sheet "Advances in the study of the biology and habits of the white grubs (*Phyllophaga obsoleta*) in Honduras" (enclosed attachment), prepared by H. Espinoza (Entomologist). It will be reproduced in B&W hard copies the coming year for distribution to growers and other interested parties.

Parthenium Weed Identification Kit leaflet. Two pages. A. Shabbir and S. Adkins

Pioneer weed biocontrol quarantine facility for Ethiopia in the battle to control the invasive plant parthenium in Africa

### **Honduras**

FHIA. 2009. "Manejo Seguro de Plaguicidas Agrícolas" (Safe Use of Agricultural Pesticides), a 60-page, full color graphically illustrated manual. Produced by FHIA, Honduras. It covers in a simple way the concept, history and importance of pests; strategies for pest management; the history, status, profile and mode of action of the pesticides, as well as the ways of penetration into the human body; interpretation of label, types of containers, protection equipment, preparation of mixes, management of spills, handling of used containers, cleaning-up application equipment; handling of intoxications; basic principles for selection and correct application of pesticides; and tables with the principal chemical groups of insecticides, acaricidas, fungicides and herbicides.

PROMIPAC and collaborators. 2010. Alternative IPM management for Paratrioza in potatoes. Zamorano, Honduras. 2 p

### **India**

23 web-based articles promoting IPM in India, 27 posters, and 9 pamphlets

Anon. 2010. a) Pests of Onion, b) Onion Thrips, c) Diseases of Onion, d) Purple blotch disease in onion, e) Mealy bug in Brinjal, Papaya mealybug, f) Yellow vein Mosaic, g) Virus in okra, h) Nematodes in Tomato, i) Natural enemies in Brinjal, j) Viruses in Tomato (India).

Centre for Plant Protection Studies and Centre for Plant Molecular Biology and Biotechnology. 2011. Integrated Pest Management in Tomato. Tamil Nadu Agricultural University.

Rivera J.M., J. C. Melgar, and H. Espinosa and J. K. Brown . Zebra Chip Disease of Potato in Honduras-PDF.. Posted on IPM CRSP website September 2010.

### **Jamaica**

Clarke-Harris, D., S.J. Fleischer, F. McDonald, C. Edwards and P. Chung. 2000. Growing Callaloo. Information Leaflet presented at Denbigh Agricultural Show August 5-7, 2000

Lawrence, J. and P. Myers. Pheromone trap construction.

Lawrence, J., J. Bohac, and P. Myers. 1996. IPM of the Sweetpotato Weevil. CARDI.

RADA. 2000-2001. A full-colour draft information leaflet was prepared as an enhanced information product on the gall midge pest complex.

**Kenya**

KARI-Thika . 2010. Tomato diseases, for Tomato Farmers' Integrated Pest Management training workshop held at KARI-Thika, 12-13 April 2010. (Kenya).

**Kyrgyzstan**

Anon. 2010. Compendium on Farmers Field Schools in Kyrgyzstan – 170 p.

**Mali**

Technical Paper (fiche technique) Est – il possible de produire du haricot vert au Mali ? Mai 2002.

Watson, E. 2001. How We Find Pesticides- What is it? How Much?

**Nepal**

Gyawali, B. K. Fact Sheet for Soap water and Mashed Sweet Gourd Technologies in Nepal. (English).

Gyawali, B. K. Integrated Pest Management for Vegetables in Nepali Farmers' Field: A Training Manual. (Nepali).

Gyawali, B. K. Pamphlets on MASHED SWEET GOURD TECHNOLOGY (Nepali).

Gyawali, B. K. Pamphlets on SOAP WATER TECHNOLOGY (Nepali).

Integrated Pest Management for Vegetables in Farmers' Field: A Training Manual. (Nepali).

**Philippines**

Baltazar, A.M., F.V. Bariuan, E.C. Martin, M.C. Casimero, F. Bajo, Jr, S.R. Obien, R.M. Gapasin, S.K. De Datta, and A.M. Mortimer. 1999-2000. Biology and Control of *Cyperus rotundus*. Two-page leaflet (Fact Sheet).

Gapud, V.P., C.V. Pile, G.S. Arida, B. Santiago, G. Balagot, and E.G. Rajotte. 1999. Fact sheets developed on eggplant insect pests, *Leucinodes orbonalis* Guenee, *Amrasca biguttula* (Ishida), and *Henosepilachna doryca philippinensis* (Dieke).

Gergon, E.B., and S.A. Miller. 1999-2000. "The root-knot nematode in rice-vegetable cropping system". Flip chart.

Gergon, E.B., R.M. Gapasin, L.E. Padua, M.B. Brown, and S.A. Miller. 2000-2001. Bacterial Wilt Disease: Training leaflet for DA-CAR.

Gergon, E.B., R.M. Gapasin, L.E. Padua, M.B. Brown, and S.A. Miller. 2000-2001. Bacterial Spot of Pepper. IPM CRSP Training Leaflet.

Gergon, E.B., R.M. Gapasin, L.E. Padua, M.B. Brown, and S.A. Miller. 2000-2001. Anthracnose Disease of Pepper. IPM CRSP Training Leaflet.

Gergon, E.B., R.M. Gapasin, L.E. Padua, M.B. Brown, and S.A. Miller. 2000-2001. One-page flyer for IPM CRSP entitled "Root-knot nematode: the unseen pest of rice and onion.

IPM CRSP. 2000. "Ang Talong" (Management of Bacterial Wilt of Eggplant). Bookmark

IPM CRSP/PhilRice. 1999. "Pink Root Disease of Bulbs". Brochure.

IPM CRSP/PhilRice. 1999. "*Cyperus rotundus*". Brochure.

## Publications/Products List

- IPM CRSP/PhilRice. 1999. "Root-Knot Nematode: The Unseen Pest of Rice and Onion". Brochure.
- IPM CRSP/PhilRice. 2000. "Ang Talong" (Fruit and Shoot Borer Management). Bookmark
- IPM CRSP/PhilRice. 2000. "Bt". Brochure.
- IPM CRSP/PhilRice. 2000. "Management of Pests, Diseases and Weeds of Onion". (Translated into local dialect) Fan.
- IPM CRSP/PhilRice. 2000. "NPV". Brochure.
- IPM CRSP/PhilRice. 2000. "*Spodoptera exigua*, Onion Cutworm". Brochure.
- Opeña, J.L., C.B. Adalla, A.M. Baltazar, and N.L. Opina. 2009. Mass rearing and the use of predatory earwigs against eggplant fruit and shoot borer. Leaflet prepared for IPM CRSP trainees. U.P. Los Banos, College, Laguna, Philippines.
- Padua, L.E., A.C. Lopus, V.P. Gapud, C.V. Pile, B.E. Santiago, N.S. Talekar, V.F. Recta, and E.G. Rajotte. 1999. *Three fact sheets* on the Pests of Onion and their Management for adoption by onion farmers.
- Padua, L.E., A.C. Lopus, V.P. Gapud, L.S. Sebastian, N.S. Talekar, K. Hoover, L.E.-Carlson, E.G. Rajotte. 2000. "Common Cutworm (Harabas), *Spodoptera litura*: The Scourge of Onions & Other Vegetables." Leaflet.
- PhilRice. 2010. *Trichoderma* Biofungicide for Vegetables. PhilRice 2009 No. 62.
- PhilRice. 2010. *Trichoderma* sp.: Mabisa Na, Makakalikasan Pa!
- PhilRice. 2010. VAM: Vesicular Arbuscular Mycorrhizae
- PhilRice. 2010. Vegetable Disease Diagnostic Kit for Farmers
- PhilRice. 2011. Pest Busters.

### **Southeast Asia**

- VAM –*Vesicular Arbuscular Mycorrhizae*
- DAMPING – *DAMPING-OFF*
- PALTAK - *Anthracnose or Twister*
- BALDRAP – *Basal plate rot or bulb rot*
- TRICHODERMA
- HARABAS -*Armyworm and cutworm*
- JET - *Onion Leafminer*
- HANIP – *Thrips*
- Pests of Onion
- Onion Thrips
- Diseases of Onion
- Purple blotch disease in onion
- Development of IPDM module for onion
- IPDM module in onion
- *Leucinodes orbonalis* management in Brinjal
- Mass production of *Pseudomonas fluorescens*
- Mass production of *Trichoderma viride*
- Role of antagonistic microorganisms in Disease Management
- Role of *Trichoderma* in Plant Disease Management
- Role of *Pseudomonas* in Plant Disease Management



## Publications/Products List

- Mealy bug management in Brinjal
- Papaya mealybug management
- *Cryptolaemus* in Pest Management
- *Crysoperla* in Pest Management
- IPM in Brinjal
- IPM in Okra
- Yellow vein Mosaic Virus in okra
- IPM in cauliflower
- IPM in Tomato
- Integrated Nematode Management in Tomato
- Integrated Nematode Management in Bendi
- Mode of Parasitisation of nematodes
- Nematode management using organic amendments
- Yellow sticky trap for monitoring sucking pests
- Natural enemies in Brinjal
- Virus disease management in Tomato
- Pheromone technology in Brinjal
- Pheromone technology in Okra and tomato
- Pheromone technology for DBM management
- Management of purple blotch (*Alternaria porri* (Ellis) Neerg.) of Onion
- Management of onion purple blotch with bioformulations and fungicides.
- Development and popularization of integrated pest and disease management module in onion

In addition to the above extension materials, two flip charts were prepared and reproduced in collaboration with TMSD of PhilRice. These are on VAM production and Use and *Trichoderma* sp. These will be given to technicians and/or facilitators for their use in their FFS.

### Tajikistan

Aitmatov, M. and N. Saidov. 2008. Translation of “Sunn Pest Management” brochure from English into Tajik and Kyrgyz. 100 copies published. Distributed to farmers in Tajikistan and Kyrgyzstan.

Saidov N., D. Landis, A. Fiedler, M. Bouhssini, V. Nazirov (2010): Introduction of native flowering plants in agro landscapes for attracting beneficial insects. Brochure, Dushanbe, 14 p.(in Tajik).

Saidov N., A. U. Jalilov, D. Landis, M. Kennelly, M. Bouhssini. 2011. Wheat pest and diseases and methods of control. Brochure, Dushanbe-2011, published copies 200 unit (*in Tajik*).

Saidov N.Sh., A.U. Jalilov, D.A. Landis, A. Fiedler, V.K. Nazirov, T. Mirzoev (2010): Introduction the flowering plants in agricultural landscapes for increasing of efficiency of natural enemies. Bulletin of the Academy of agricultural sciences of the Republic of Tajikistan, Dushanbe-2010, 10 p., in the press (in Russian).

### Uganda

Anon. 2010. Coffee twig borer (*Xylosandrus* sp): A new threat to coffee production in Uganda.

Anon. 2010. Key insect pests of Arabica coffee in Uganda and their management

Egonyu, J.P. and P. Kucel, 2010. The coffee lace bug (*Habrochila* sp.): Emerging major challenge to Arabica coffee in Uganda. NARO/NaCRRI/COREC

Ivey, M.L.L., S.A. Miller, G. Hakiza and M. Erbaugh. 2001-2002. A “user friendly” brochure was produced to assist farmers/growers and extension agents with recognizing and identifying the coffee wilt pathogen. The brochure also included recommendations for disease control.

## Publications/Products List

Kyamanywa, S., H. Willson, F. Opiyo, V. Kasenge, J.M. Erbaugh, in collaboration with the National Bean Programme through CIAT and IDEA Project. 1999. Beanfly and its control.

Uganda Site Committee. 2001. Coffee Wilt. Fact-sheet brochure.

Uganda Site Committee. 2001. Gray leaf-spot. Fact-sheet brochure.

Willson, H. and S. Kyamanywa. 1998. *Three fact sheets* were produced and distributed to farmers at the Open Days (Uganda site).

### **Uzbekistan**

Tashpulatova B.A., Frank Zalom, Rashidov M.I., Suleimanov, 2009, Methodological recommendations on rearing of predator mites (Phytoseiidae family) for biological control of greenhouse pests -ICARDA-MSU and Tashkent Agrarian University. Tashkent-, 18 p. (in Russian and in Uzbek).

### **West Africa**

“Integrated Tomato Production Guide for West Africa.” Guide for tomato production in West Africa. (in press).

58 booklets on IPM techniques and 30 on the safe use of pesticides have been distributed

Hipkins, P. A., D. E. Mullins, I. Sidibé, and K. T. Gamby. 2011. Training Materials for Pesticide Safety Education in Mali, West Africa., The Pesticide Stewardship Alliance (TPSA), Charleston, SC., February 2011

## 15. NEWSLETTERS

### General / Other

Anonymous. 1999. Global Project to Develop IPM Involves OSU Scientists. *EnVision* Vol. 3, Issue 12, p. 6.

Muniappan, R. 2010. Three invasive mealybugs are on the march in Asia. *IAPPS Newsletter*, Sept. 2010.

Muniappan, R. 2010. Two invasive weeds on the march in Africa. *IAPPS Newsletter*, August 2010.

OIRD, Virginia Tech. 1995. *IPM CRSP Update*. Vol. 1, No. 1, Winter 1995.

OIRD, Virginia Tech. 1996. *IPM CRSP Update*. Vol. 2, No. 1, February 1996.

OIRD, Virginia Tech. 1996. *IPM CRSP Update*. Vol. 2, No. 2, August 1996.

OIRD, Virginia Tech. 1997. *IPM CRSP Update*. Vol. 3, No. 1, February 1997.

OIRD, Virginia Tech. 1997. *IPM CRSP Update*. Vol. 3, No. 2, March 1997.

OIRD, Virginia Tech. 1997. *IPM CRSP Update*. Vol. 3, No. 3, July 1997.

OIRD, Virginia Tech. 1997. *IPM CRSP Update*. Vol. 3, No. 4, October 1997.

OIRD, Virginia Tech. 1998. *IPM CRSP Update*. Vol. 4, No. 1, April 1998.

OIRD, Virginia Tech. 1998. *IPM CRSP Update*. Vol. 4, No. 2, July 1998.

OIRD, Virginia Tech. 1998. *IPM CRSP Update*. Vol. 4, No. 3, December 1998.

OIRD, Virginia Tech. 1999. *IPM CRSP Update*. Vol. 5, No. 1, July 1999.

OIRD, Virginia Tech. 1999. *IPM CRSP Update*. Vol. 5, No. 2, November 1999.

OIRD, Virginia Tech. 2000. *IPM CRSP Update*. Vol. 6, No. 1, Winter 2000.

OIRD, Virginia Tech. 2000. *IPM CRSP Update*. Vol. 6, No. 2, Spring 2000.

OIRD, Virginia Tech. 2000. *IPM CRSP Update*. Vol. 6, No. 3, Summer 2000.

OIRD, Virginia Tech. 2000. *IPM CRSP Update*. Vol. 6, No. 4, Fall 2000.

OIRD, Virginia Tech. 2001. *IPM CRSP Update*. Vol. 7, No. 1, Winter 2001.

OIRD, Virginia Tech. 2001. *IPM CRSP Update*. Vol. 7, No. 2, Spring 2001.

OIRD, Virginia Tech. 2001. *IPM CRSP Update*. Vol. 7, No. 3, Summer 2001.

OIRD, Virginia Tech. 2002. *IPM CRSP Update*. Vol. 8, No. 1, Winter 2002.

OIRD, Virginia Tech. 2002. *IPM CRSP Update*. Vol. 8, No. 2, July 2002.

OIRED, Virginia Tech. 2003. *IPM CRSP Update*. Vol. 9, No. 1, January 2003.

### **Africa**

<http://oia.osu.edu/news-releases/1036-international-ipm-program-a-success-for-tomato>

International IPM program a Success for Tomato Producers in Africa

IPMnet – July/August 2009 IPMnet News,

Kenya: Newspaper cuttings: IPM CRSP Passionfruit activities-Newspaper cutting 7<sup>th</sup> Dec. 2008-Sunday Nation newspaper.

Success story of Mr. Matthew Ssekabembe, a participant of the Tomato IPM Programme in Busukuma Sub-county (compiled by Mark Erbaugh and Zachary Muwanga) presented for publication on the IPM CRSP Website (June, 2009) .

USAID Fact Sheet: Increasing Farmer's Income in Uganda [www.usaid.gov/press/factsheets/2009/fs091019](http://www.usaid.gov/press/factsheets/2009/fs091019)

VI. U.S. AID's IPM-Collaborative Research Support Program, IPM Approach Benefits Ugandan Tomato Crops

### **Central Asia**

Aitmatov M.B., G. Bird, A.U. Jalilov and K. Kyjal. 2008. Farm Field School and ecology problem. *Beatnik Kyrgyz agrarian university*. № 3 (11): 10-14 pj. (in Russian)

Khamraev A.Sh., N.SH. Saidov, M.B. Aitmatov, D.A. Azimov, Sh.B. Ulmasbaev and B.A. Tashpulatova. 2008. Agroetomological cartogram for Central Asia and Caucasus countries. Scientific-practical recommendation, Tashkent, 125 p. (in Russian).

Saidov N.S.H., A.U. Jalilov and V.K. Nazirov. 2009. Russian-Tajik-English terminological dictionary on plant protection. Dushanbe 60 p., (in Russian).

### **Jamaica**

Harris, S. 2001. Using GIS to Help Jamaican Hot-Pepper Farmers. *Virginia Tech Global Network*, Vol. 5, No. 3, Spring 2001. p. 10

Ravlin, F.W. 1994. Reports from the Field: IPM CRSP, Jamaica. *The University Abroad* 7 (3/4).

### **Mali**

Erbaugh, J.M. 1997. "OSU Involvement with the IPM CRSP." Newsletter of the International Programs in Agriculture Office, The Ohio State University, February, 1997.

### **Philippines**

Alberto, R.T., S.E. Santiago, M.S.V. Duca and S.A. Miller. "A New Fungal Disease Complex in Onions in Nueva Ecija". *Pathologie* Vol. 3.

Gergon, E. 1999. Diseases in rice-onion cropping systems. *Pathologie Newsletter* 2:5-6.

### **Uganda**

Erbaugh, J.M., S. Kyamanywa, B. Bashasha and P. Kwibikwa. 2000. "Chemicals decried." *Uganda New Vision*. March 15, 2000.

## Publications/Products List

Isubikalu, P. 1998. "The Story of the aphid with regard to cowpea growers in eastern Uganda". The Forum News, Issue 5, January, Lilongwe, Malawi.

Kyamanywa, S., E. Adipala and Mukankusi, C. 2000. Leaf miner (*Aproarema modicella* (Deventer): a new pest in Uganda. IASPC/OAU Newsletter.

Moser, B. 2002. A Message from the Dean in Around the Globe, Newsletter of the International Programs in Agriculture Office, College of Food, Agricultural and Environmental Sciences. January-March, 2002.

## 16. CDs/DVDs and VIDEOTAPES

### **General**

CDs with gender in agriculture resources were distributed at 5 workshops to all participants (1 Spanish, 1 French, 3 English).

Candidatus Liberibacter Overview-PDF. A new type of bacterium associated with psyllids and plants. Judith K. Brown. Posted at the IPM CRSP website September 2010.

International Plant Virus Disease Network Workshop and Planning Meeting for Asian Regions (powerpoint presentations) were saved on a jump drive and distributed to each of the participants at the end of the workshop.

Southeast Asia Diagnostics Workshop materials (programme, power point presentation, and pictures taken during the activities) was documented and saved in two CDs which were distributed to each of the participants at the end of the workshop.

YouTube: Ingenious Diagnostics Combat Global Plant Disease  
<http://www.wsutoday.wsu.edu/Pages/Publications.asp?Action=Detail&PublicationID=21721&PageID>

### **Ecuador**

Barrera, V., G. Norton, J. Alwang, L. Escudero, J. Suquillo, A. Rea, C. Monar, S. Sherwood, P. Gallegos, F. Chulde. 2001. Video about the problems of the pesticides in Carchi and their IPM alternatives. This video was broadcasted by a national range program called "Día a Día" (Day by Day).

Conociendo al picudo negro de plátano (narrated by a farmer). INIAP-IPMCRSP, Video educacional, 500 CD's, August, 2006.

La rehabilitación de platanera es posible con un manejo integrado del cultivo. INIAP-IPMCRSP. Tríptico divulgativo, 1000 units, Octubre, 2006.

### **Honduras**

Rueda, A. and J. Constanza. 2007. Multimedia: Field School Guide [cd-rom]. Integrated Pest Management Program for Central America, (PROMIPAC-ZAMORANO-COSUDE). Science and Production Department. Zamorano University, Zamorano, Honduras.

Rueda, A. and Y. Valenzuela. 2007. Multimedia: Good Agriculture Practices (GAP) Guide [cd-rom]. Integrated Pest Management Program for Central America, (PROMIPAC-ZAMORANO-COSUDE). Science and Production Department. Zamorano University, Zamorano, Honduras.

Rueda, A., H. Arguello and L. Lastres. 2007. Multimedia: IPM in Cucurbits Guide [cd-rom]. Integrated Pest Management Program for Central America, (PROMIPAC-ZAMORANO-COSUDE). Science and Production Department. Zamorano University, Zamorano, Honduras.

Zebra Chip Disease of Potato in Honduras-PDF. Jose Mauricio Rivera, Jose C. Melgar, and Hernan Espinosa (FHIA, Honduras), and Judith K. Brown (The University of Arizona). Posted at the IPM CRSP website September 2010.

Zebra chip-potato psyllid complex. A CD was prepared with the lectures presented on August 02-04, 2010 in the regional workshop titled Potato Psyllid/*Ca. Liberibacter Solanacearum*: A New Bacterial-insect Vector Complex Causing Diseases of Potato and Tomato in the Americas held at Siguatepeque (Honduras).

**India**

**The following are from South Asia (TNAU):**

- Gyawali, BK. A CD on "IPM CRSP Activities." (Nepal)
- One CD on Production of Biocontrol Agents (*Pseudomonas* and *Trichoderma*)
- Two CDs on onion IPM (for training to Farmers and Extension workers)

Adoption and benefit of IPM package by IPM package adopted farmer Thiru. Shanmuga sundaram- Interview in AIR Coimbatore-31.12.2010

G. A. Arida presented a paper on Sex Pheromones in Vegetable IPM during the workshop on the Ecologically-Based Participatory OPM for Southeast Asia held at Splash Mountain Resort, Los Banos, Laguna on August 2-5.

H. R. Rapusas presented a paper on 'IPM Technologies Developed for Vegetable Crops in the Philippines' during the 2011 APS-IPPC Joint Meeting Held in Honolulu Hawaii, held on August 6-10.

H. R. Rapusas presented a paper on the Accomplishments of the IPM CRSP-PhilRice during the workshop on the Ecologically-Based Participatory OPM for Southeast Asia held at Splash Mountain Resort, Los Banos, Laguna on August 2-5.

H. R. Rapusas presented a paper on the Use and Mass Production of *Trichoderma* sp. in the Philippines during the workshop on the Ecologically-Based Participatory OPM for Southeast Asia held at Splash Mountain Resort, Los Banos, Laguna on August 2-5.

H. R. Rapusas was resource person/speaker on IPM in rice and vegetables in a series of training of trainers in the Palay Check System at Philrice CES, August.

Hausman, S. 2011. Broadcasting activities were carried out by, a bureau chief and editor for Virginia Public Radio, who traveled to Indonesia with the International Reporting Project (IRP) on May 20. She visited IPM CRSP sites in Cipanas and Pacet and met vegetable famers.

Metro-TV broadcasting. 2011. Talk show (outbreaks of mango caterpillar). National audiences. April 11.

Metro-TV broadcasting. 2011. Talk show (outbreaks of mango caterpillar). National audiences. April 14.

Naidu, R.A. 2011. Management of virus diseases in vegetable crops. Radio Talk for the program "Farm School on Vegetable IPM" organized by the All India Radio, Tiruchirapally at Agricultural College and Research Institute, Tiruchirapally, on July 8, 2011.

Papaya mealybug parasitoid and its usage on 19.02.11

Plant nematodes and their management – AIR Coimbatore – 22.9.2010

Plant parasitic nematodes - AIR Coimbatore - 21.12.2010

*Pseudomonas fluorescens* and its importance on 22.10.11

Punzal, B. S. was resource person on the use of sex pheromone and sticky board traps in a training of trainers in the Palay Check System, PhilRice CES, August.

Radio broadcasting. 2011. Talk show (outbreaks of mango caterpillar). General audiences in Bogor. April 25.

Radio broadcasting. 2011. IPM for vegetable crops. General audiences in Cianjur and Bandung. July 12.

Publications/Products List

Ramos, J. M. was resource person/speaker on the use and mass production of VAM in a training of trainers in the Palay Check System, PhilRice CE, August.

Santiago, S. E. was resource person/speaker on the use and mass production of *Trichoderma* sp. in a training of trainers in the Palay Check System, PhilRice CES. August.

TV-One broadcasting. 2011. Talk show (outbreaks of mango caterpillar). National audiences. April 14.

TV-One broadcasting. 2011. Talk show (outbreaks of mango caterpillar). National audiences. March 30.

Networking is accomplished through institutional collaboration among

- Philippine Rice Research Institute (PhilRice)
- University of the Philippines Los Banos
- Central Luzon State University
- Regional Agricultural Training Institute
- Regional Agriculture Office of DA
- Provincial Government Units (Office of the Provincial Agriculturists, and the Local Government Units (LGU) of the IPM CRSP sites and the Department of Agriculture

A total of 1548 vegetable growers from all over Tamil Nadu enrolled themselves for the Farm School on AIR. The recording for 20 lessons on various topics on vegetable pest and disease management was done by the AIR, Trichy on the following dates as contact program in the presence of selected vegetable growers. The queries raised by the farmers were explained by the concerned scientists. During the broadcast in addition to the lesson by the concerned scientist, the farmer-scientist interaction on various issues related to vegetable IPM were also broadcast for the benefit of vegetable growers of Tamil Nadu. Efforts were made for simultaneous broadcast of the program through All India Radio, Coimbatore and All India Radio, Madurai stations also so that maximum vegetable growers of Tamil Nadu are benefitted.

Date: 29.4.2011            No. of farmers attended: 25

Date: 20.6.2011            No. of farmers attended: 20

Date: 08.7.2011            No. of farmers attended: 28

The list of topics, date of broadcast and the scientists involved in the program are given below:

S. No	Date of broadcast	Topic	Scientist
1.	12.4.2011	Importance of Integrated Pest Management in vegetable crops	Dr. V. Jayabal Dean, ADAC & RI, Trichy
2.	19.4.2011	Extension schemes and their benefits in vegetable cultivation	Dr. P. Kalaiselvan Director of Extension Education, TNAU, Coimbatore
3.	26.4.2011	Latest technologies in vegetable plant protection	Dr. E. I. Jonathan Director, Centre for Plant Protection Studies, TNAU, Coimbatore



Publications/Products List

4.	03.5.2011	Role of biocontrol agents in vegetable plant protection	Dr. R. Samiyappan Director, Centre for Plant Molecular Biology, TNAU, Coimbatore
5.	10.5.2011	Integrated pest management in brinjal	Dr. S. Mohankumar Professor (Entomology) Centre for Plant Molecular Biology, TNAU, Coimbatore
6.	17.5.2011	Insect pests of bhendi and their management	Dr. P. Karuppasamy Professor and Head, Department of Entomology, TNAU, Coimbatore
7.	24.5.2011	Integrated disease management in brinjal and bhendi	Dr. S. Thiruvudainambi Associate Professor (Plant Pathology) ADAC & RI, Trichy
8.	31.5.2011	Integrated pest management in cruciferous vegetables	Dr. C. Durairaj Professor (Entomology) Department of Entomology, TNAU, Coimbatore
9.	07.6.2011	Integrated disease management in cruciferous vegetables	Dr. G. Chandrasekar Professor and Head, Department of Plant Pathology, TNAU, Coimbatore
10.	14.6.2011	Integrated nematode management in vegetable crops	Dr. S. Ramakrishnan Professor (Nematology) Department of Nematology, TNAU, Coimbatore
11.	21.6.2011	Integrated pest management in onion and chilli	Dr. G. Gajendran Professor and Head, Department of Crop Protection ADAC & RI, Trichy
12.	28.6.2011	Integrated disease management in onion and chilli	Dr. D. Dinakaran Professor (Plant Pathology) ADAC & RI, Trichy
13.	12.7.2011	Integrated pest management in	Dr. N. Raju

Publications/Products List

		tomato	Professor (Entomology) ADAC & RI, Trichy
14.	19.7.2011	Integrated disease management in tomato	Dr. G. Karthikeyan Associate Professor (Plant Pathology) Department of Plant Pathology, TNAU, Coimbatore
15.	26.7.2011	Integrated pest management in cucurbits and drumstick	Dr. R. Rajendran Professor (Entomology) ADAC & RI, Trichy
16.	02.8.2011	Pesticide residues in vegetables and their management	Dr. S. Pasupathy Associate Professor (Entomology) ADAC & RI, Trichy
17.	09.8.2011	Improved horticultural technologies in vegetable plant protection	Dr. L. Pugalendhi Professor and Head Department of Vegetables TNAU, Coimbatore
18.	16.8.2011	Role of farm women in vegetable IPM	Dr. K. Uma Associate Professor (Agrl.Economics) Dept. of Agriculture and Rural Management, TNAU, Coimbatore
19.	23.8.2011	Role of vegetable IPM in economic development of vegetable growers	Dr. K. N. Selvaraj Professor and Head Department of IPR TNAU, Coimbatore
20.	30.8.2011	Summary of vegetable IPM lessons - compilation	Dr. P. Kalaiselvan Director of Extension Education, TNAU, Coimbatore

**Indonesia**

Carner, G.R. 2010. Diagnosis of diseases of insects. Bogor, Indonesia.

CD - IPM CRSP SE Asia Regional Program. 2010. Annual Project Workshop. 20-21 July 2010. Cipanas, West Java, Indonesia.

CD - IPM CRSP SE Asia Regional Program. 2010. Gender and Participatory Methodologies Workshop. 20-21 July 2010. Cipanas, West Java, Indonesia.

CD - IPM CRSP SE Asia Regional Program. 2010. Plant Disease and Insect Pathogen Diagnostics Workshop. 22-223 July 2010. Bogor, West Java, Indonesia.

## Publications/Products List

Gurel F. B. 2010. Diagnosing plant disease caused by bacteria. Bogor, Indonesia.

Gurel, F. B. 2010. Use of serology and PCR in diseases diagnostics. Bogor, Indonesia.

Gurel, F. B. 2010. Diagnosing plant diseases caused by fungi and oomycetes. Bogor, Indonesia.

Hidayat S. H. 2010. Diagnosis of plant virus diseases. Bogor, Indonesia.

Nawangsih, A.A. 2010. Diagnostic guide of plant pathogenic bacteria: *Ralstonia solanacearum*. Bogor, Indonesia.

Sinaga, M. S. 2010. Diagnosis of fungal plant diseases. Bogor, Indonesia.

Supramana. 2010. Diagnosis of plant disease caused by nematode. Bogor, Indonesia.

### **Jamaica**

Ravlin, F.W. 1996. International agriculture opportunities for minorities. 7 minute video. This video features the IPM CRSP with scenes and comments from CRSP collaborators.

### **Mali**

Caldwell, J. 1997. Farmer evaluation: Participatory assessment in Mali. 60 minutes.

Dunkel, F.V. 1999. Assessment of pests, pesticide usage, and pesticide residues on horticultural crops for export and for urban consumption in Mali: Video introduction for the pesticide project of the IPM CRSP - Mali. 48 minute video.

Dunkel, F.V. 2000. International Research Externships in Mali. Montana State University. 18 minutes video.

Dunkel, F.V. 2000. Sights and sounds of Mali from the eyes of the MSU (IPM CRSP) Externs. 18 minute concept video.

Dunkel, F.V. 2001. Discovery-based undergrad opportunities: Collaborative Research Support Programs. 22 minute concept video.

Dunkel, F.V. and M. Broughton. 2001. Marigolds in a bio-based pest management package: Stakeholders describe their constraints to production and scientists at MSU-Bozeman and USDA-Sidney describe research addressing these constraints. 1 hour video. (Although this is about Montana and sugar beet farming, this project and the video are a direct result of the IPM CRSP. The well-funded project and video were designed using IPM CRSP participatory techniques and bio-based pest management package development techniques. In addition, one of these components, the non-horticultural marigold, was from traditional wisdom passed to Dr. Dunkel by African farmers.)

Dunkel, F.V. and N. Kuehn. 2002. Nine Years of Accomplishments in IPM CRSP - Mali. 15 minute video. Presented at the Annual Meetings of the IPM CRSP. 17 May 2002. Blacksburg VA.

### **Philippines**

CD - FFS Modules on Onion Production and Other Vegetables, Philippines.

Gapud, V.P., et al. 1997. Onion production and IPM development in the Philippines. (A 15-minute feature on onion production, pest problems, economics, and prospects for IPM development for Asian farmers; PhilRice-IPM CRSP production.)

## **17. MAGAZINE AND NEWSPAPER ARTICLES**

### **General/Other**

Saidov, N. September 2008. Landscape ecology and biological pest management. Agro-Advice, Quarterly electronic newsletter. Written for wider dissemination targeting various stakeholders such as authorities, local farmers, and NGO.

### **Albania**

Tedeschini, J. 2004. Lufta e integruar në bimën e ullirit: Projekti I IPM CRSP. *Bujqësia shqiptare*, July 2004, pp. 5-7.

### **Ecuador**

Barrera, V., L. Escudero, J. Alwang and G. Norton. 2003. Encontrando salidas para reducir los costos y la exposicion a plaguicidas: experiencias con ECAs en el norte de Ecuador. *LEISA Revista de Agroecología*, June 2003, Vol. 19, No. 1. pp. 46-48.

Barrera, V. 2002. "What is lacking is training in IPM of the potato crop" EL Universo Newspaper, Agricattle page.

Escudero, L. 2002. "The Field Schools in the province of Carchi". El Comercio Newspaper, Agromar page.

### **Guatemala**

Calderón, L.F., F. Solis and D. Dardon. 1998. "Bromuro de metilo". *Agricultura*, Año 1, No. 9. pp. 6-8.

Calderón, Luis, "La Mosca Blanca", *Agricultura*.

### **India**

The following are from South Asia (TNAU):

- Fifteen news clipping were published in newspaper dailies and magazines about activities of IPM-CRSP
- Onion bulb treatment demonstration programme – December, 2010
- Papaya parasite release programme – December, 2010

### **Jamaica**

Sanchez, P. 1997. For Pepper Growers, Built-in Nematode Resistance. *Agricultural Research*, Oct 97, pp. 12-13.

### **Mali**

Moore, K M. et al. 2002. "Un aperçu sur la marché des pesticides □ Bamako, 2001", Sahel IPM. CILSS. June 2002.

### **Philippines**

Alberto, R.T., S.E. Santiago, M.S.V. Duca and S.A. Miller. 2000. "Unknown Disease Attacks Onion". *Philippine Daily Inquirer*. March 27, 2000.

Alberto, R.T., S.E. Santiago, M.S.V. Duca and S.A. Miller. 2000. "New Onion Disease Discovered". *The Philippine Star*. April 2, 2000

**Uganda**

Erbaugh, J.M. 1999. Global Project to Develop IPM Involves OSU Scientists. *EnVISION*. Newspaper of the Faculty and Staff, College of Food, Agricultural, and Environmental Sciences, The Ohio State University, December, 1999. p. 6.

Kaaya, A. N., S. Kyamanywa, M. C. Akemo and E. Kagezi. DithaneM-45 Residues in tomatoes from Ugandan markets may be above safe levels. *The Food Scientist Vol. 4: 23 - 24*

Uganda New Vision. "Chemicals decried". March 15, 2000.

IPM CRSP Activities in Uganda. Faculty of Agriculture Newsletter Makerere University. Issue 2, August, 1999.

## 18. REPORTS

### General / Other

A complete list of IPM CRSP Trip Reports can be found on the WWW at <http://www.ag.vt.edu/ipmcrsp/trips/triprpt.html>

General / other reports in the IPM CRSP Annual Reports: .....	12
Eritrea reports in the IPM CRSP Annual Reports: .....	4
Non-prime site trip reports:	
Antigua: .....	2
Costa Rica: .....	1
El Salvador: .....	1
Eritrea: .....	9
Ethiopia: .....	4
Haiti: .....	1
India: .....	5
Kenya: .....	3
National Pesticide Stewardship Alliance Annual Conference: .....	1
Nepal: .....	1
Nicaragua: .....	1
Niger: .....	2
St. Kitts: .....	1
St. Lucia: .....	1
St. Vincent: .....	1
Senegal: .....	1

Manual on Soil Borne Pest Management. A short manual ‘Como Proteger de las Plagas del Suelo los Cormos-semilla de Plátano y Banano’ (How to Protect from Soil Borne Pests the Seed-corms of Plantains and Bananas) was completed. A total of 600 units were printed of this 19-page illustrated pamphlet that presents the measures recommended to prevent pests damage to propagative material of *Musa*.

PPRI. 2006. Biological control of *Parthenium hysterophorus* using insects and pathogens. Final progress report to DWAF *Working for Water Program* for 2003-2006, July 2006.

PPRI. 2006. Biological control of *Parthenium hysterophorus*, pre- and post- release studies. August 2007. Project Progress Report to SANParks Kruger National Park.

Use of soil solarization for the control of *Rhizoctonia* root rot of beets in La Esperanza, Intibucá. A technical report was written and published in the 2007 annual report of FHIA’s Program on Horticultural Crops.

## Publications/Products List

Vera, D.I., Suárez-Capello and P.A. Backman. 2008. Evaluation of Witches broom disease in cação for cação/plantain intercropping systems under five spatial arrangements, Plant Disease Management Report, 2008.

Vera, D.I., Suárez-Capello and P.A. Backman. 2008. Evaluation of Sigatoka Disease Severity in plantain under five spatial arrangement. Cocoa/plantain intercropping system. Plant Disease Management Report, 2007-8.

### **Albania**

7 trip reports

Reports in the IPM CRSP Annual Reports: 22

### **Bangladesh**

15 trip reports

Reports in the IPM CRSP Annual Reports: 61

Karim, R. 2001. IPM CRSP Farmer Field Day at Kashimpur on-farm research site, 30 Jan 2001. Illustrated detailed report submitted to IPM CRSP, Virginia Tech.

Karim, R. 2003. A Report on Farmer Field Day 2003; Farmer Field Day: January 28, 2003, Organized by IPM CRSP and BARI. Detailed report with color photos submitted to IPM CRSP ME, Virginia Tech.

### **Central Asia**

Tashpulatova B.A., F. Zalom, M.I. Rashidov and B. Suleimanov. 2009. Methodological recommendation on rearing of predator mites (Phytoseiidae family) for biological control of greenhouse pests, Handbook. Tashkent-2009, Tashkent, 18 p, published copies 100 units (in Russian)

### **Ecuador**

14 trip reports

Reports in the IPM CRSP Annual Reports: 71

Andrade, R., V.H. Barrera, J. Alwang and Agosto. 2006. Caracterización de las condiciones agro-socio-económicas de las familias productoras de naranjilla (*Solanum quitoense*) en la región Amazónica del Ecuador. Quito, Ecuador: INIAP

Gallegos, P., S. Garcés, R. Williams. 1999. Laboratory trials to determine control of Andean Potato Weevil using biorational insecticides. *Arthropod Management Tests*, Entomological Society of America, vol 24, p. 406.

Harris, C. and C. Suárez. 2006. A transformative approach to Extension: innovative technology transfer Methodologies for plantain (Matooke) on the Ecuadorian Coast. In. *Experiences, Innovations and Issues in Agricultural Extension in Uganda, Lessons and Prospects*. (ed. M.J. Mangheni), Fountain Publishers, Kampala, Uganda. Pp. 67-83.

INIAP. 2000. Informe técnico anual, 1999. Departamento Nacional de Protección Vegetal. Estación Experimental Tropical Pichilingue. Pp. 7-9; 11-19.

Mera-Orcés, Verónica. "Agroecosystems Management: Social Practices and Health: A case study on pesticide use and gender in the Ecuadorian Highlands", INIAP, June, 2000, 39 p.

**Guatemala/Honduras**

Reports in the IPM CRSP Annual Reports: 143

47 trip reports (Guatemala: 43; Honduras: 4)

Asturias et al. Estudio socioeconómico de casos de agricultores de arveja china. Spanish version of a final report.

Asturias, L. et al. 1997. Economic and socioeconomic impact assessment of non-traditional crop production and small farm households in Guatemala. In press.

Carranza, H., R. Morales, E. Garcia; A. Sierra, A. Rodas, D. Dardón; T. Noda, F. Gomez, and V. Salguero. 1995. Integrated Management on Broccoli Crops. CATIE; ARF.

Carranza, Humberto, Danilo Dardón, Luis Calderón, C. Richard Edwards, Stephen C. Weller and Guillermo Díaz. 1999. Integrated Crop Management Evaluation for Broccoli in Guatemalan Highlands. Annual report, ICTA.

Espinoza, H. R. 2008. Barrenador del fruto de la berenjena, *Neoleucinodes elegantalis*. Department de Protección Vegetal. FHIA – La Lima, Cortés, Hoja Técnica No. 2 – Enero, 2008.

MacVean, C. and R. Perez. 1997. A taxonomic survey of the snowpea leaf mining species (Agromyzidae) in the Guatemalan Highlands. (Final Report of contract research for the IPM CRSP). Universidad del Valle de Guatemala. 8 pp.

Mazariegos, L.M. and V. Mérida. 2008. “La incorporación de manejo integrado de plagas en un centro nufed de ciclo básico del nivel medio de Guatemala: Generación de lecciones aprendidas para transferencia a IPM-CRSP Honduras. Informe final consolidado presentado por Luisa María Mazariegos y Verónica Mérida, Estudio 1360/IPM-CRSP Guatemala, a Dr. Sarah Hamilton, IPM CRSP-Honduras/Virginia Tech/Denver University.” December 2008. The final report was submitted to FHIA, the Guatemalan Ministry of Education, and Virginia Tech:

Morales, Mario, Danilo Dardón, Luis Calderón, Richard Edwards, Stephen Weller, Julio Franco. 1999. Use of Plastic Screen (antivectors) for the Management of Whitefly-geminivirus complex in Tomato, El Progreso, Guatemala, 1999. Annual report ICTA. 1999

Morales, Mario, Fernando Solís, Luis Calderón, Danilo Dardón, Glenn H. Sullivan, Stephen C. Weller, C. Richard Edwards. Search for Effective Alternatives to the Usage of Methyl Bromide in Broccoli and Tomatoes in Guatemala. Results presented in the annual report of the UNIDO-ICTA-CONCYT-CONAMA project, Spanish version.

Morales, Mario, Fernando Solís, Luis Calderón, Danilo Dardón, Glenn H. Sullivan, Stephen C. Weller, C. Richard Edwards. Search for Effective Alternatives to the Usage of Methyl Bromide in Broccoli and Tomatoes in Guatemala. Annual results presentation, ICTA 2000, Bárcenas, Guatemala.

Pests of Oriental Vegetables. As part of a production guide, staff of the DPP prepared a 69-page draft of the “Pests and and Diseases” that in Honduras most commonly attack the general group of crops known as oriental vegetables, which includes a range of exotic cucurbits (Karela, Bitter melon, Fuzzy squash, Tindora, etc.) and eggplants (Thai, Hindu, Chinese, etc.) produced for export to the United States. A final version is expected to be available by year end.

Solis S., Fernando et al. 1997. Evaluation of *Metarhizium anisopliae* and *Beauveria bassiana* in the biological control of *Liriomyza huidobrensis* in snow peas. Operative plan report, ICTA. 1996-97. Guatemala.



**India**

An Activity Reporting Form was developed by Jackie Bonabana, Mark Erbaugh and Dan Taylor with 5 major sections including identifier information, activity description, methods used, immediate results and activity evaluation. It was field-tested in Sironko in April 2011 and in Busukuma in May 2011, and presented to IPM CRSP regional meeting in Dar es Salaam in June 2011. An agricultural indicators matrix was also developed and tested in Dar es Salaam.

**Indonesia**

Ratulangi, M.M., G.S.J. Manengkey, Em Senewe. Pengaruh Pengajiran Terhadap Drpduksi Tomat (*Lycopersicum esculentum* Mill.) Universitas Sam Ratulangi Dengan, Manado, Indonesia collaboration with Clemson University, SC, USA

Tairas, W.R., CH. Salaki dan M. Dien. Studi beberapa jenis pathogen dari serangga hama pada beberapa tanaman sayuran di desa Rurukan Kabupaten Minahasa. (paper from Indonesia, no date – received at IPM CRSP in 2008)

**Jamaica**

Reports in the IPM CRSP Annual Reports: 144

3 trip reports

Bohac, J. R., D. M. Jackson, and J. D. Mueller. 1999. Progress Report for 1998 Sweetpotato breeding and genetics. p. 28. In: W. D. McLaurin (ed.), National Sweetpotato Collaborators Progress Report, 1998.

Bohac, J. R., Jackson, D. M., and J. D. Mueller. 2001. Progress Report for 2000- Sweetpotato breeding and genetics. Pages 25-26 In W. D. McLaurin (ed.), National Sweetpotato Collaborators Group Progress Report, 2000.

Bohac, J.R., Jackson, D.M., and J.D. Mueller. 2000. Progress Report for 1999- Sweetpotato breeding and genetics. Page 27, 32 In W. D. McLaurin (ed.), National Sweetpotato Collaborators Group Progress Report, 1999.

Clarke-Harris, Dionne; Phillip Chung, Janette Lawrence; Juliet Goldsmith, Florence Young, Carol Thomas, Sue Tolin; Shelby Fleisher; D. Michael Jackson. 1999-2000. An IPM Strategy to Combat the Gall Midge Complex Affecting Hot Pepper. A preliminary report of the survey was prepared, submitted to the Jamaica Society for Agricultural Sciences for publishing and circulated.

Dukes, P. D., J. R. Bohac, D. M. Jackson, H. F. Harrison, Jr., and J. A. Thies. 1997. National Sweetpotato Collaborators Test - 1996. 1996 National Sweetpotato Collaborators Group Progress Report. The State Expt. Stns., the Coop. Ext. Serv., and the USDA. p. 28-29.

Dukes, P. D., J. R. Bohac, J. D. Mueller, D. M. Jackson, J. A. Thies, and H. F., Harrison. 1997. Sweetpotato breeding and genetics. 1996 National Sweetpotato Collaborators Group Progress Report. The State Expt. Stns., the Coop. Ext. Serv., and the USDA. p. 36, 38-39.

Fery, R. L., and J.A. Thies. 1997. An evaluation of the vulnerability of Habanero and Scotch Bonnet peppers to the southern root-knot nematode. Clemson University Vegetable Report 7:33-36.

Fery, R. L., P. D. Dukes, and J. A. Thies. 1997. Release of southern root-knot nematode resistant bell peppers 'Charleston Belle' and 'Carolina Wonder'. Methyl Bromide Alternatives 3(3):7.

Harrison, H. F., and R. L. Fery. 1997. Response of bell pepper (*Capsicum annuum*) cultivars to bentazon. Clemson University Vegetable Rpt. 7:8-10.

## Publications/Products List

Jackson, D. M. 2000. IPM in Sweetpotato: Caribbean Regionalization. Pages 37-38 *in* Summary Report of the Caribbean Agricultural Technology Conference (CATC), August 14-18, 2000, Kingstown, St. Vincent and the Grenadines, and August 21-25, 2000, St. Augustine, Trinidad and Tabago. Published by The Caribbean Agricultural Science and Technology Network System (PROCICARIBE) with the assistance of the Technical Centre for Agricultural and Rural Co-Operation, Wageningen, The Netherlands, 78 pages.

Jackson, D. M. and J. R. Bohac. 2002. Resistance of regional and standard sweetpotato entries to soil insects, Charleston, S.C., 2001. Pages 35-36 *In* W. D. McLaurin (ed.), National Sweetpotato Collaborators Group Progress Report, 2001.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 1999. Progress Report for 1998- Resistance of regional and standard sweetpotato entries to soil insects, Charleston, SC., 1998. Pages 28-30 *In* W. D. McLaurin (ed.), National Sweetpotato Collaborators Group Progress Report, 1998.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2001. Resistance of regional and standard sweetpotato entries to soil insects, Charleston, S.C., 2000. Pages 30-31 *In* W. D. McLaurin (ed.), National Sweetpotato Collaborators Group Progress Report, 2000. 50 pp.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of advanced sweet potato entries for resistance to soil insect pests, 1997. *Arthropod Manage. Tests* Volume 27, Report No. M-10. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of advanced sweet potato entries for resistance to soil insect pests, 1998. *Arthropod Manage. Tests* Volume 27, Report No. M-11. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of advanced sweet potato entries for resistance to soil insect pests, 1999. *Arthropod Manage. Tests* Volume 27, Report No. M-12. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of advanced sweet potato entries for resistance to soil insect pests, 2000. *Arthropod Manage. Tests* Volume 27, Report No. M-13. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of advanced sweet potato entries for resistance to soil insect pests, 2001. *Arthropod Manage. Tests* Volume 27, Report No. M-14. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of regional sweet potato entries for resistance to soil insect pests, 1996. *Arthropod Manage. Tests* Volume 27, Report No. M-15. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of regional sweet potato entries for resistance to soil insect pests, 1997. *Arthropod Manage. Tests* Volume 27, Report No. M-16. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of regional sweet potato entries for resistance to soil insect pests, 1998. *Arthropod Manage. Tests* Volume 27, Report No. M-17. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of regional sweet potato entries for resistance to soil insect pests, 1999. *Arthropod Manage. Tests* Volume 27, Report No. M-18. Online Journal at <http://www.entsoc.org/pubs/index.html>.

## Publications/Products List

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of regional sweet potato entries for resistance to soil insect pests, 2000. *Arthropod Manage. Tests* Volume 27, Report No. M-19. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D. M., J. R. Bohac, and J. D. Mueller. 2002. Evaluation of regional sweet potato entries for resistance to soil insect pests, 2001. *Arthropod Manage. Tests* Volume 27, Report No. M-20. Online Journal at <http://www.entsoc.org/pubs/index.html>.

Jackson, D.M., J.R. Bohac, and J.D. Mueller. 2000. Progress Report for 1999- Resistance of regional and standard sweetpotato entries to soil insects, Charleston, S.C., 1999. Page 32, 34 In W. D. McLaurin (ed.), National Sweetpotato Collaborators Group Progress Report, 1999.

Reid, R. and H. Graham. 1997. Market research – callaloo, hot peppers and sweetpotato (Working Paper). 47 pp. 19 Appendices. Agribusiness Council. Kingston, Jamaica.

Thies, J. A. 1999. Progress Report for 1998 entitled: Evaluation of regional and standard entries for reaction to root-knot nematodes. National Sweetpotato Collaborators Group Annual Conference. January 30-31, 1999. Memphis, TN.

Thies, J. A., and J. R. Bohac. 1999. Evaluation of regional and standard entries for reaction to root-knot nematodes, p. 28. In: W. D. McLaurin (ed.), National Sweetpotato Collaborators Progress Report, 1998.

Thies, J.A., P. D. Dukes, and J. R. Bohac. 1997. Evaluation of regional and standard entries for reaction to root-knot nematodes. 1996 National Sweetpotato Collaborators Group Progress Report. The State Expt. Stns., the Coop. Ext. Serv., and the USDA. p. 37.

Thies, J.A., P.D. Dukes, J. D. Mueller, and J. R. Bohac. 1998. Evaluation of regional and standard entries for reaction to southern root-knot nematode. pp. 34-35. In: W. J. McLaurin (ed.). *National Sweetpotato Collaborators Group Progress Report. The State Expt. Stns., the Coop. Ext. Serv., and the USDA.*

### **Kenya**

Waiganjo, M.M, N.M. Wabule, S. Kuria; J.M. Kibaki; I. Onyango; S.B. Wepukhulu, E. Irambu and N.M. Muthoka. 2006. Tomato production baseline survey in Kirinyaga District, Kenya. Annual Report, KARI-Thika.

### **Mali**

Reports in the IPM CRSP Annual Reports: 83

48 trip reports

Anderson, Z., C. Smith, and F.V. Dunkel. 2000. Development and testing of a visual system appropriate for use in Mali on small-scale farms to convey results of scientific research. A working paper. Department of Entomology, MSU, Bozeman, Montana. 30 pp.

Caldwell, J.S., J. Mullen, and D.A. Jenkins. 1997. Farmer evaluation of preharvest and postharvest trials. March 15-30, 1997. 26 pp.

Dem, S.B., O. Coulibali and M. N'Diaye. 2000. Report and set of diagrams of green bean sampling procedures used and samples obtained for pesticide analysis, 14 February 2000, in the villages of Dialakoroba, Sanambebe, and Koren.

Diakit , M.D., O. Ciss , S. Dena, A. Karambe, S. Coulibaly, M. Kenintoro. 1996. Rapport technique: Investigation sur les methodes traditionnelles de lutte contre le charbon cillonage du sorgho. Minist re du

## Publications/Products List

Développement Rural et de l'Environnement. Institut d'Economie Rurale, Centre Regional de Recherche Agronomique de Sotuba. 17 pp.

Résultats du projet IPM / CRSP Mali Comité de Programme (CP) Sotuba du 12 au 21 Juin 2002.

Résultats du projet IPM / CRSP Mali Comité Technique Régional (CTR) Sotuba du 20 au 30 Mai. Sotuba 2002.

Résultats du projet IPM / CRSP Mali Comité Régional des Utilisateurs (CRU) Sotuba du 20 au 22 Avril 2002

Sagara, N., R. E. Diggs, F.V. Dunkel, and B. Dotson. 2000. Economic Feasibility of the Commercialization of Neem Kernel Extract and other Products Obtained from the Use of the Cold Manual Oil Press Produced in Mali. A working paper. Department of Entomology, MSU, Bozeman, Montana. 27 pp.

Sissoko, H.T., K.M. Moore, A. Yeboah, M.K. Diallo and P.S. Sow. 2001. Participation des groupes sociaux dans la filière de tomate dans la zone OHVN du Mali. Preliminary Survey Report. IPM CRSP Mali Site. Institut d'Economie Rurale. Bamako, Mali.

Sissoko, H.T., K.M. Moore, A. Yeboah, M.K. Diallo and P.S. Sow. 2001. Participation des groupes sociaux dans la filière de haricot vert. Preliminary Survey Report. IPM CRSP Mali Site. Institut d'Economie Rurale. Bamako, Mali.

Traoré, S.H., J.S. Caldwell, and Y.S. Traoré. 1998. Suivi agronomique des tests de lutte intégrée contre les nuisibles des cultures dans le cadre de IPM/CRSP au Mali [Agronomique monitoring of integrated crop pest management trials of the IPM CRSP in Mali.]. Institut d'Economie Rurale, Bamako, Mali, 17 pp. (This study, in French, presents the results of agronomic monitoring of the 1997 IPM CRSP trials, covering field slope, soil drainage and texture, crop rotations and fertilization in the two years preceding the trial, planting dates, and observation of pests other than the pest focused on by the trial).

### Philippines

Reports in the IPM CRSP Annual Reports: 134

39 trip reports

Arida, G.S., B.S. Punzal, C. C. Ravina Jr., V.P. Gapud, E.G. Rajotte, and N.S. Talekar. 2002. Sex pheromones in pest management: Monitoring adult densities of *Spodoptera litura* (F.) and *S. exigua* (Hubner) (Lepidoptera:Noctuidae) in rice-onion cropping systems. *PhilRice Technical Bulletin* 6(2): 36-40.

Baltazar, A.M., R.T. Alberto, L.E. Padua, M.C. Lit, N.L. Opina, G.S. Arida, E.B. Gergon, R.M. Gapasin, M.C. Casimero, S.R. Francisco, I.R. Tanzo, S.A. Miller, G.W. Norton, E.G. Rajotte, S.K. De Datta, L.S. Sebastian, V.P. Gapud and S.R. Obien. 2002. IPM in Rice-Vegetable Systems: Research Highlights and Promising Technologies. *PhilRice Technical Bulletin* 6 (2): 66-71.

### Tanzania

Carter, B. A., Reeder, R., Mgenzi, S.R., Kinyua, Z. M., Mbaka, J. N., Doyle, K., Maina, M., Valentine, G., Aritua, V., Lewis Ivey, M. L., Miller, S. A. and Smith, J. J. 2009. Identification of *Xanthomonas vasicola* (formerly *X. campestris* pv. *musacearum*), causative organism of banana xanthomonas wilt, in Tanzania, Kenya and Burundi. New Disease Reports <http://www.bspp.org.uk/publications/new-disease-reports/ndr.php?id=019025>

Maerere, A.P., K.P. Sibuga, J.E.M. Bulali, M.W. Mwatawala, J. Kovach, S. Kyamanywa and M. Erbaugh. (2009). Deriving Appropriate Pest Management Technologies for Smallholder Tomato (*Solanum lycopersicum* Mill.) Growers: A Case Study of Morogoro, Tanzania.

## Publications/Products List

Magina, F.L., G., G. Maro, H. Monyo, E. Nkya, F. Mbowe, S. Malinga, J.M. Erbaugh and D. Taylor. Baseline survey report for Arabica coffee (*Coffea Arabica*) in Hai and Moshi rural districts, Tanzania. TaCRI, IPM – CRSP.

Sibuga, K.P., A.P. Maerere, M.W. Mwatawala, J. Kovach, M. Erbaugh, J., D. Doohan, J. Bulali, J.G. Mbwambo and J.A. Shayo. 2007. Tomato production baseline survey in Mvomero District – Morogoro Region, Tanzania.

### Uganda

Reports in the IPM CRSP Annual Reports: 119

23 trip reports

Asea, G., Bigirwa, G. Adipala, E., Owera, S.A.P., Pratt, R.C. and Lipps, P.E. 2001. Studies on the epidemiology of gray leaf spot of maize in central Uganda. Summaries of Forum Research and Development activities at Makerere University Document 2: 99-101.

Bisikwa, J. 2010. Parthenium weed problem, its spread and status in Uganda. International Parthenium Newsletter No. 2 Tropical & Sub-Tropical Weed Research Unit, The University of Queensland, Australia

Erbaugh, J.M., P. Kucel, N. Ugingi, J. Wandaba, J. Magona, J. Matume and P. Magira. May, 2007. Baseline Survey of Arabica Coffee (*Coffea Arabica* L.) Producers in Districts around Mt. Elgon, Uganda.

Kyamanywa, S. 1996. Report on field participatory assessment of IPM needs in Iganga and Kumi districts. IPM/CRSP/MUK/NARO.

Sibuga, K.P., Bulali, J. E. M., Maerere, M. W. Mwatawala, A. P., Kovach, J, Kyamanywa, S. and Erbaugh, M. Deriving appropriate pest management technologies for smallholder tomato (*Lycopersicon esculentum* Mill.) growers: A case study of Morogoro, Tanzania. (Submitted to Tropical Science) Waiganjo, M.M.; B.M. Ngari; M.N. Wabule; S.B. Wepukhulu. 2008. Biological Monitoring Of Tomatoes at Mwea-Kirinyaga Kenya. 2007 Annual Report. KARI-Thika.

## 19. WORKSHOPS, TRAINING, COURSES, FIELD SCHOOLS and FIELD DAYS

### General

Kemal Ali, Mulugeta Negeri, and Takele Negewo participated in Invasive Weed Management Workshop and Field Day that was organized by Wonji sugarcane enterprise and UNEP/GEF project on "Removing Barriers to Invasive Plant Management" from 27-29, 2009.

Kodetham Gopinath. 2009. "Screening of yeast proteome and the Role of cellular proteins on Brome mosaic virus RNA replication, systemic movement and long distance RNA trafficking." International seminar on Plant Biotechnology and Genomics towards a New Green Revolution (ISPBG2009), February 6-7, 2009.

Naidu Rayapati. 2009. "International Partnerships: Why it Matters for Africa?" International Institute of Tropical Agriculture, Lagos, Nigeria, May 8, 2009.

Taylor, J., K.P. Kirkman, A. McConnachie and L. Strathie. 2009. Seed Bank Studies of the Alien Invasive Weed, *Parthenium hysterophorus* L., in the Eastern Areas of South Africa. South African Crop Production/Soil Science Society of South Africa/South African Society for Horticultural Sciences/South African Weed Science Society Combined Congress 2009, Stellenbosch University, Stellenbosch, 19-22 January 2009.

Taylor, J., K.P. Kirkman, A. McConnachie and L. Strathie. 2009. Seed Bank Studies of the Alien Invasive Weed, *Parthenium hysterophorus* L., in the Eastern areas of South Africa. South African Crop Production/Soil Science Society of South Africa/South African Society for Horticultural Sciences/South African Weed Science Society Combined Congress 2009, Stellenbosch University, Stellenbosch, 19-22 January 2009.

### Albania

Tedeschini, J., E. Isufi, H. Pace, B. Stamo, V. Jovani, B. Huqi, Sh. Shahini, R. Uka, M. Hasani, and M. Baci. 2004. Five regional workshops: IPM technologies and concepts for Albanian olive growers. February, March and July, 2004.

Tedeschini, J., E. Isufi, H. Pace, B. Stamo, V. Jovani, B. Huqi, Sh. Shahini, R. Uka, M. Hasani, and M. Baci. 2004. Three regional workshops: IPM technologies and concepts for olive. October 2003 and March 2004.

Tedeschini, J., E. Isufi, H. Pace, B. Stamo, V. Jovani, B. Huqi, Sh. Shahini, R. Uka, M. Hasani, M. Baci, C. Pitts, D. Pfeiffer, L. Ferguson, B. Teviotdale, M. McGiffen. 2000-2001. In collaboration with AOOAT, three meetings (Dhermi, Elbasan and Vlora districts) were organized with participation of specialist, farmers and extension officers. In those meetings the main pests and diseases of olive trees observed during monitoring were represented. The development of pest and disease populations during the growing season was shown.

### Bangladesh

Karim, A.N.M.R. and Bangladesh Site Team. 2003. IPM CRSP Farmer Field Day at Gaidghat, Jessore on-farm research and demonstration site, 28 Jan 2003. Attendance totaled over 1500, including the Minister of Agriculture and other officials, Government of Bangladesh; representatives from USAID and CIMMYT; and over 1000 farmers.

Karim, A.N.M.R. and Bangladesh Site Team. 2001. IPM CRSP Farmer Field Day at Kashimpur on-farm research site, 30 Jan 2001. Attendance totaled around 220, including the Minister of Agriculture, Government of Bangladesh. The news of the farmer field day was nationally televised and reported in national and local dailies. Also, the BARI Quarterly "BARI News" (January-March 2001 issue) put up a one-page report on the field day.

### Ecuador

Barrera, Víctor, George Norton, Jeffrey Alwang, Luis Escudero, Jovanny Suquillo, Angel Rea, Carlos Monar, Stephen Sherwood, Patricio Gallegos, Fernando Chulde. 2000. On October 2000, on San Francisco de La Libertad, Espejo, Carchi, a second field day was held to show the advances of the FSs. 250 national and international visitants participated. 2 Total

Barrera, Víctor, George Norton, Jeffrey Alwang, Luis Escudero, Jovanny Suquillo, Angel Rea, Carlos Monar, Stephen Sherwood, Patricio Gallegos, Fernando Chulde. 2001. From March 2001 until August 2001, in Carchi, the First Course of the Training of Trainers on the implementation of IPM and the methodology of FS's was held. This was directed to technicians and peasant promoters of twelve institutions that work in Carchi and Imbabura. 1 Total

Barrera, Víctor, George Norton, Jeffrey Alwang, Luis Escudero, Jovanny Suquillo, Angel Rea, Carlos Monar, Stephen Sherwood, Patricio Gallegos, Fernando Chulde. 2001. On July 2001, in San Gabriel, Carchi, a field day was held by the group that participated in the Training of Trainers Course. The field day was directed to representatives of institutions, farmers, local and national authorities. 1 Total

Barrera, Víctor, George Norton, Luis Escudero, Jovanny Suquillo, Carlos Monar, Stephen Sherwood, Patricio Gallegos, Jorge Revelo. 1999-2000. Validation and Diffusion of Models for Integrated Pest Management (IPM) of Potato in the Provinces of Carchi and Bolivar, Ecuador. **Four Farmer Field Schools** were established: three in Carchi and one in Bolívar. 4 Total

Barrera, Víctor, George Norton, Luis Escudero, Jovanny Suquillo, Carlos Monar, Stephen Sherwood, Patricio Gallegos, Jorge Revelo. 1999. Validation and Diffusion of Models for Integrated Pest Management (IPM) of Potato in the Provinces of Carchi and Bolivar, Ecuador. In October, 1999, a workshop about FS's was held in Riobamba-Ecuador. Participants for the province of Carchi were Luis Escudero IPM-CRSP, Jovanny Suquillo INIAP and Fernando Chulde MAG. 2 Total

Barrera, Víctor, George Norton, Luis Escudero, Jovanny Suquillo, Carlos Monar, Stephen Sherwood, Patricio Gallegos, Jorge Revelo. 2000. Validation and Diffusion of Models for Integrated Pest Management (IPM) of Potato in the Provinces of Carchi and Bolivar, Ecuador. During 10-11 February 2000, in Los Andes-Carchi, a short course was held for farmers, with the main topics insects and pathogens of potato. 2 Total

Barrera, Víctor, George Norton, Luis Escudero, Jovanny Suquillo, Carlos Monar, Stephen Sherwood, Patricio Gallegos, Jorge Revelo. 2000. Validation and Diffusion of Models for Integrated Pest Management (IPM) of Potato in the Provinces of Carchi and Bolivar, Ecuador. On March 11, 2000, in San Pedro de Piartal-Carchi, a field day was organized to demonstrate the experiences of the FS's. More than 150 farmers attended the event. 1 Total

Gallegos, P., F. Manguashca, R. Williams, S. Garcés, C. Asaquibay. 1999-2000. Biological Control of Major Insect Pest of Potatoes in Ecuador: The Andean Weevil *Premnotrypes vorax* and Central American Tuber

## Publications/Products List

Moth, *Tecia solanivora*; Subproject: Evaluation of eight low toxicity insecticides to mammals to control Andean Potato Weevil, *Premnotrypes vorax*. A field day was held to share the results of this research. Some 25 students and faculty from the Colegio Jorge Martinez de San Gabriel, Carchi, attended. Also in attendance were 16 farmers and 2 technical people. 1 Total

Gallegos, P., F. Maiguashca, R. Williams, S. Garcés, C. Asaquibay. 1999-2000. Biological Control of Major Insect Pest of Potatoes in Ecuador: The Andean Weevil *Premnotrypes vorax* and Central American Tuber Moth, *Tecia solanivora*; Subproject: Evaluation of eight low toxicity insecticides to mammals to control Andean Potato Weevil, *Premnotrypes vorax*. Field day discussions were held for the control of the white grub (weevil larvae) at La Delicia, in Chimborazo. Twenty (20) framers and two technicians. 1 Total

Gallegos, Patricio, César Asaquibay, Iván Carrasco, Roger Williams, Anibal Martínez, Germán Ayala. 2000-2001. Biological control of *Barotheus castaneus* by Entomopathogenous fungi, on Blackberry (*Rubus glaucus* Benth). Talks were given to students and professors of 4 agricultural schools and 6 agronomy departments. 14 university students received internships from 3 to 30 days. 1 Total

Gallegos, Patricio, César Asaquibay, Iván Carrasco, Roger Williams, Anibal Martínez, Germán Ayala. 2000-2001. Biological control of *Barotheus castaneus* by Entomopathogenous fungi, on Blackberry (*Rubus glaucus* Benth). During field trials 3 technicians and students from the Agronomy Department of the Technical University of Ambato were trained. 1 Total

Gallegos, Patricio, César Asaquibay, Roger Williams, Marcelo Prado, Jovanny Suquillo. 2000-2001. Control of the Andean weevil (*Premnotrypes vorax* H.) in potato (*Solanum tuberosum* L.) using Triflumuron. Field days were carried out with farmers and students. 1 Total

Gallegos, Patricio, Jorge Viteri, Roger Williams, M. Arias. 2000-2001. Production of *Eotetranychus nr. deflexus* (McGregor) for mass breeding of acari for biological control of fruit mites (on Babaco (*Carica x heilbornii nm. pentagona*) in Pichincha, Ecuador. This experiment was presented in its field phase to students from different agricultural institutions. 1 Total

INIAP, CIP, SM-CRSP, and IPM-CRSP. 2001. Workshop about the “Use and management of the Tradeoffs model as an instrument for political decision taking”, at the Researching Site of Santa Catalina – INIAP, August 3, 2001; with the participation of 12 technicians from INIAP and CIP. 1 Total

INIAP, CIP, SM-CRSP, IPM-CRSP and Eco-health project. 2001. Workshop on the “Impacts of the use of pesticides in Carchi” at the Quito Hotel in Quito, May 23, 2001; with participation of 80 people. 1 Total

Oyarzun, P. J., Diego León, Mike Ellis, G. A. Forbes, Julián Pucha, Charles Crisman. 1999-2000. Screening Potato Diseases in Central Ecuador. Training of Trainers workshop in Chimborazo. 1 Total

Oyarzun, P. J., Diego León, Mike Ellis, G. A. Forbes, Julián Pucha, Charles Crisman. 1999-2000. Screening Potato Diseases in Central Ecuador. **Three courses** on Potato Diseases in Carchi, Chimborazo and Cañar. 3 Total

Oyarzun, P. J., Diego León, Mike Ellis, G. A. Forbes, Julián Pucha, Charles Crisman. 1999-2000. Screening Potato Diseases in Central Ecuador. Participatory workshop to produce “The Potato Crop Management Handbook in Ecuador.” 1 Total

Oyarzun, P. J., Diego León, Mike Ellis, G. A. Forbes, Julián Pucha, Charles Crisman. 1999-2000. Screening Potato Diseases in Central Ecuador. Workshop to organize the potato agro-alimentary chain. 1 Total

Oyarzun, Pedro, Gregori Forbes, Mike Ellis, Julián Pucha, Charles Crissman, Irhina Andrade, Diego León. 2000-2001. Three courses on potato diseases in Carchi, Chimborazo and Cañar. Training of Trainers. 3 Total

Suárez-Capello, C., D. Vera, F. Echeverría, R. Justicia, W. Flowers, R. Carroll, R. Williams, M. Ellis, G. Norton, J. Alwang. 2001. An informal workshop on identification of leaf beetles (Coleoptera: Chrysomelidae)



## Publications/Products List

was presented to the entomology staff of the Biology Department of the Escuela Politecnica Nacional, 2 Aug. 2001. 1 Total

Suárez, C.; Danilo Vera; Raul Quijije; Roger Williams; Mike Ellis; George Norton, Karina Solis; Carmen Triviño. 2000. Development of IPM Programs for Plantain Systems in Ecuador. In April 2000, a plantain production course was conducted. The course was attended by over 40 people. This was a cooperative activity between the IPM CRSP, local farmers, industry representatives, and INIBAP. 1 Total

Williams, R., I. Carranza, J. Cedeño, C. Suárez. 2001-02. Effect of trapping systems & certain IPM practices on the population dynamics of *Cosmopolites sordidus* (the banana stem borer) on plantain in Ecuador. Presented to the “Foro Platanero”, a meeting with most of the Extension agents of the area. 1 Total

Williams, Roger N., Patricio Gallegos, and Carmen Suárez. 1998. Mini Workshop to review results for the first year activities and review plans for the second year activities. October 23, 1998. 1 Total

### Ethiopia

Abebe M. and N. Mulugeta. 2008. Screening for Safety and Mass Production of Bio-Control Agent (*Zygogramma bicolorata*), Under Quarantine Conditions at PPRC, EIAR, Ambo, Ethiopia. The 9<sup>th</sup> Annual Conference of the Ethiopian Weed Science Society held on 25-26 December 2008 in Hiruy Hall, Ethiopian Institute of Agricultural Research, Addis Ababa, Ethiopia.

Adkins, S.W. 2008 Parthenium Weed Research Aids Management of this Weed in the Agro ecosystems of Ethiopia and Pakistan. The 5<sup>th</sup> International Weed Science Congress, 23-27 June 2008, Vancouver, Canada. Approximately 550 Delegates of which about 50% Female.

Adkins, S.W. 2008. Parthenium Weed; An Invasive Weed of the Agro ecosystems of Australia, Ethiopia and Pakistan. Seminar at Kew Gardens, Wakehurst Place, England. Approximately 35 in Audience of which c. 50% Female.

McConnachie, A. 2008. Biological control of invasive plant species. IPM CRSP Parthenium Project Partners Workshop 13-16 October 2008, Addis Ababa, Ethiopia. (~ 30 participants including 3 females)

McConnachie, A. 2008. Parthenium Distribution Studies – the Relevance for Biocontrol Mass-rearing. IPM CRSP Parthenium Project Partners Workshop 13-16 October 2008, Addis Ababa, Ethiopia. (30 participants including 3 females)

Strathie, L. 2008. Biological Control Programmes and Determining Safety of Agents. IPM CRSP Parthenium Project Partners Workshop 13-16 October 2008, Addis Ababa, Ethiopia. (30 participants including 3 females)

Strathie, L. 2008. Rearing and Testing Agents for Biological Control of *Parthenium hysterophorus* in South Africa. IPM CRSP Parthenium Project Partners Workshop 13-16 October 2008, Addis Ababa, Ethiopia. (Including 3 females participants)

Strathie, L. 2009. Promising Prospects for Biological Control of *Parthenium hysterophorus*. 37<sup>th</sup> Annual Biocontrol of Weeds Workshop, Green Fountain Farm, Port Alfred 5-8 May 2009. (80 biocontrol researchers, implementers, managers, approx. 50% female)

Strathie, L. and C. Zachariades. 2009. Biological Control of Alien Invasive Plants. Ivungu River Conservancy, 19 May 2009, Port Edward. (30 members of public, approx. 50% female)

The 4<sup>th</sup> Parthenium Partners Reporting and Planning Workshop was held on 13-16 October, 2008 at Imperial Hotel, in Addis Ababa, Ethiopia. Attendance was forty on the first day and thirty on the second day. There were only three female participants.

Two national newspapers, the daily Addis Zemen in Amharic, and the Ethiopian Herald in English reported about the parthenium workshop in their October 14 and 15 issues, respectively. Both newspapers circulate throughout the country.

### Guatemala

Morales, Mario, Danilo Dardón, Luis Calderón, Richard Edwards, Stephen Weller, Julio Franco. 1999. Use of Plastic Screen (antivectors) for the Management of Whitefly-geminivirus complex in Tomato, El Progreso, Guatemala, 1999. Technological Exchange with 100 farmers from 5 tomato producers associations, 25 field technicians from Bayer, Agrevo (Aventis), Novartis, San Carlos University and Del Valle University.

Sandoval, J. L., Guillermo E. Sánchez, Luis Caniz, Glenn H. Sullivan, Stephen Weller, C. Richard Edwards (1999-2000). Institutionalization of an IPM CRSP Quality Control Process in the Production and Export of Snow Peas (*Pisum sativum* L.) in Guatemala. Field days with field technicians: **6 total**.

Sandoval, J. L., Guillermo E. Sánchez, Luis Caniz, Glenn H. Sullivan, Stephen Weller, C. Richard Edwards (1999-2000). Institutionalization of an IPM CRSP Quality Control Process in the Production and Export of Snow Peas (*Pisum sativum* L.) in Guatemala. Field days with growers: **11 total**.

Sandoval, J. L., Guillermo E. Sánchez, Luis Caniz, Glenn H. Sullivan, Stephen Weller, C. Richard Edwards (1999-2000). Institutionalization of an IPM CRSP Quality Control Process in the Production and Export of Snow Peas (*Pisum sativum* L.) in Guatemala. Training activities to growers: **10 total**.

### India

Karthikeyan Gandhi. 2009. "Detection of seed borne viruses." National Training Course for Seed Testing Officers, National Seed Research & Training Institute, Varanasi, U.P., India, July 13-17, 2009.

Kodetham Gopinath. 2009. "Reconstitution of Brome Mosaic virus infection through RNA trafficking and the role of two yeast cellular proteins on RNA transport." Trends in Plant Biology Mini Symposium, Indian Institute of Education and Research Institute, Pune, India, August 8, 2009.

Naidu Rayapati 2009. "Dealing complex virus disease problems – a case of tospovirus disease in vegetables." Department of Department of Plant Molecular Biology & Biotechnology, Center for Plant Molecular Biology, Tamil Nadu Agricultural University, Coimbatore, India, August 20, 2009.

Naidu Rayapati. 2009. "Thrips-borne tospoviruses and their management and how the IPM CRSP funded project is generating knowledge that could be used to develop IPM tactics for the management of PBNV." Department of Plant Pathology, Center for Plant Protection Studies, Tamil Nadu Agricultural University, Coimbatore, India, August 19, 2009.

### IPDN

Montgomery, K., M.E. Christie, L. Grossman and J. Campbell. 2009. Spatial and gender dimensions of IPM adoption in Uganda. Poster Presentation.

Muniappan, R. 2008. Papaya mealybug, a new invader in Asia. In: IAPPS Newsletter, Number I, January, 2-3, 2009.

Muniappan, R. 2009. A parasitoid to tackle the menace of the mealybug pest of cotton in India. In: IAPPS Newsletter, Number XII, December, 2009.

Muniappan, R. 2009. Sequel to the article "IPM includes the use of pesticides". In: IAPPS Newsletter, Number II, February, 2009.

## Publications/Products List

- Muniappan, R. and F. Steed. 2009. Integrated pest management package for vegetable crops in the tropics. IAPPS Newsletter, Vol. V: 2-4.
- Muniappan, R., A. Raman, and G.V.P. Reddy. 2009. *Ageratina adenophora* (Sprengel) King and Robinson (Asteraceae), In. R. Muniappan, G.V.P. Reddy, and A. Raman (eds.). Biological Control of Tropical Weeds Using Arthropods, Cambridge University Press, Cambridge, U.K., pp 63-73.
- Muniappan, R., and F. Steed. 2009. IPM package for vegetable production improves lives in the tropics. Poster presented at the 6<sup>th</sup> International Symposium on IPM, Portland, Oregon and again at a biological control conference in New Zealand.
- Muniappan, R., B.M. Shepard, G.W. Watson, G.R. Carner, D. Sartiami, A. Rauf, and M. D. Hammig. 2009. First Report of the Papaya Mealybug, *Paracoccus marginatus* (Hemiptera: Pseudococcidae), in Indonesia and India. *Agricultural and Urban Entomology*, (in press).
- Muniappan, R., B.M. Sheppard, G. Carner, M. Hammig, Y. Xia, and A. Rauf. 2009. Invasion of papaya mealybug in Asia. Poster presented at the 6<sup>th</sup> International Symposium on IPM, Portland, Oregon.
- Muniappan, R., G.V.P. Reddy, and A. Raman. 2009. *Biological Control of Tropical Weeds Using Arthropods*. Cambridge University Press, 495p.
- Muniappan, R., G.V.P. Reddy, and A. Raman. 2009. Biological control of weeds in the tropics and sustainability, In. R. Muniappan, G.V.P. Reddy, and A. Raman (eds.). Biological Control of Tropical Weeds Using Arthropods, Cambridge University Press, Cambridge, U.K., pp 1-16.
- Reddy, G. V. P., Z. T. Cruz, and R. Muniappan. 2009. Life-history, host preference and establishment status of *Melittia oedipus* (Lepidoptera: Sesiidae), a biological control agent for *Coccinia grandis* (Cucurbitaceae) in the Mariana Islands. *Plant Protection Quarterly* 24: 27-31.
- Reddy, G.V.P., R. Muniappan, Z.T. Cruz, F. Naz, J.P. Bamba, and J. Tenorio. 2009. Present status of *Maconellicoccus hirsutus* (Hemiptera: Pseudococcidae) in the Mariana Islands and its control by two fortuitously introduced parasitoids. *Journal of Economic Entomology*, Vol. 102 (in press).
- Reddy, G.V.P., Z. Cruz, N. Braganza, and R. Muniappan. 2008. The response of *Melittia oedipus* (Lepidoptera: Sesiidae) to visual cues is increased by the presence of food source. Poster presented at the 56<sup>th</sup> Annual Meeting of the Entomological Society of America, Reno, Nevada, Nov. 16-19, 2008.
- Reddy, G.V.P., Z.T. Cruz, F. Naz, and R. Muniappan. 2008. A pheromone-based trapping system for monitoring population of *Cosmopolitus sordidus* (Germar) (Coleoptera: Curculionidae). *Journal of Plant Protection Research*, 48: 515-527.
- Reddy, G.V.P., Z.T. Cruz, N. Braganza, and R. Muniappan. 2009. Response of *Melittia oedipus* (Lepidoptera: Sesiidae) to visual cues is increased by the presence of food source. *Journal of Economic Entomology*, 102: 127-132.
- Rich, M. 2008. Virginia Tech wins grant for improving food security in Africa. In: IAPPS Newsletter, Number II, 12-13, February, 2009.
- Rich, M. 2009. Eggplant grafting transforms life in Gaidghat. USAID website Telling Our Story.
- Rich, M. 2009. Feeding the world wisely. Poster presented at the 6<sup>th</sup> International IPM Symposium in Portland, Oregon.
- Rich, M. 2009. Global pest management program wins international award. Virginia Tech News
- Rich, M. 2009. IPM CRSP receives International IPM excellence award. VT press release.

## Publications/Products List

Rich, M. 2009. OIRED: Contributing to the international scholarship of a world-class university. PPT presentation to the president of Virginia Tech. Delivered by Dr. DeDatta. Contained a section on IPM CRSP.

Rich, M. 2009. University program empowers women through gender workshop in Mali. Press release: 7/31/09.

Rich, M. 2009. Virginia Tech garners \$30 million from USAID for two global projects. OIRED/Virginia Tech, 10/15/09. Was published as a VT press release and in the fall issue of Global University.

Rich, M. 2009. Virginia Tech scientist plays key role in saving the livelihoods of papaya farmers in Sri Lanka. Virginia Tech News

Rich, M. 2009. Virginia Tech's gender program changes lives around the world. Published as a VT press release and in the fall issue of Global University.

Rich, M. and B. Watts. 2009. In the developing world: IPM and women, a catalyst for change. Presented at the 6<sup>th</sup> International IPM Symposium in Portland, Oregon.

Rich, M. and B. Watts. 2009. The IPM CRSP: transcending global boundaries to increase food security. Poster presented at the 6<sup>th</sup> International IPM Symposium in Oregon and at the Outreach now conference held at Virginia Tech.

Robinson (Asteraceae), *In*. R. Muniappan, G.V.P. Reddy, and A. Raman (eds.). Biological Control of Tropical Weeds Using Arthropods, Cambridge University Press, Cambridge, U.K., pp 130-162.

Shepard, B.M., and R. Muniappan. 2009. Practical Experiences in Advancing IPM in Non-rice Food Crops in Southeast Asia. *In*, Enhancing Vegetable IPM implementation within rice-based system, (eds.). Madonna Casimero and Peter Ooi, *PhilRice Publication* (in press).

Steed, F. 2009. "Magic Traps" Increase Farmers' Profits. USAID website Telling Our Story.

Steed, F. 2009. University scientists warn Asia of widespread invasive pest threat. Virginia Tech News

Zachariades, C., M. Day, R. Muniappan, G.V.P. Reddy. 2009. *Chromolaena odorata* (L.) King and

### Jamaica

Clarke-Harris, D. 1999. Coordinated and presented a farmer training series - Integrated Pest Management-Monitoring Populations of Major Pests on Callaloo, Management of Pests in Callaloo.

Clarke-Harris, D. 2000. Coordinated and presented a farmer training series - Integrated Pest Management-managing the development of insecticide resistance and using alternatives to pesticides.

Clarke-Harris, D. and F. D. McDonald. 2000. Planned and coordinated hot pepper meeting with farmers in St Mary to extend improved hot pepper production and increase productivity (August 10<sup>th</sup> 2000).

Clarke-Harris, D. and P. Chung. 2001. 'Integrated Pest Management in Callaloo Production -*Managing the Development of Insecticide Resistance and Using Alternatives to Pesticides*'. Seminar and Field day, April 24, 2001, Linstead, St Catherine.

Clarke-Harris, D., S.J. Fleischer and G.C. Luther. 2002. Regionalisation Workshop: *Development of IPM in Leafy Vegetables that Currently Experience High Pesticide Input*, 12-13 June 2002, Trinidad.

Clarke-Harris, Dionne, Janette Lawrence, Phillip Chung, Juliet Goldsmith, Florence Young, Carol Thomas, Sue Tolin, Shelby Fleisher, D. Michael Jackson. 2001. An IPM Strategy to Combat the Gall Midge Complex Affecting Hot Pepper. A one-day national extension officer training/planning workshop was held on May 31,

## Publications/Products List

2001 to institute a standard monitoring record format and work schedule for the demonstration plot component of the project.

Dalip, Kathy M, Lilory McComie, Michael Jackson, Dionne Clarke-Harris, Frank D McDonald. 2000. A workshop, at which 22 sweetpotato farmers and extension officers were trained, was held in Linstead, St Catherine, Jamaica, December 2000.

Dalip, Kathy M, Lilory McComie, Michael Jackson, Dionne Clarke-Harris, Frank D McDonald. 2001. A field day was held at a demonstration plot in Old Harbour, St Catherine, Jamaica, February 2001; 23 farmers and extension officers attended.

Dalip, Kathy M, Lilory McComie, Michael Jackson, Dionne Clarke-Harris, Frank D McDonald. 2001. A one-day workshop was held for 17 RADA extension officers and Ministry of Agriculture personnel at Ebony Park in Clarendon, April 10, 2001.

Dalip, Kathy M, Lilory McComie, Michael Jackson, Dionne Clarke-Harris, Frank D McDonald. 2000-2001. The sweetpotato IPM workshop consisted of one day of seminar presentations followed by a field day. Antigua.

Dalip, Kathy M, Lilory McComie, Michael Jackson, Dionne Clarke-Harris, Frank D McDonald. 2000-2001. The sweetpotato IPM workshop involved 28 participants over two days and consisted of seminar presentations to Extensionists, followed by a field day for farmers. St Vincent.

Dalip, Kathy M, Lilory McComie, Michael Jackson, Dionne Clarke-Harris, Frank D McDonald. 2001. Training in sweetpotato IPM was undertaken as a joint activity of CARDI St Kitts, CARDI Jamaica, IPM CRSP and Department of Agriculture, Nevis. This workshop involved 13 farmers and agricultural officers. 19 March 2001, Nevis.

Edwards, C., Sharon McDonald, Brain Nault, Sue Tolin, Frank McDonald, Dionne Clarke-Harris, T. P. Mack, L. R. Nault, J.C. Reid, Phillip Chung, Juliet Gold-Smith, Don McGlashan. 2001. Integrated management of pests and diseases on hot pepper. Field Day hosted in collaboration with the USAID funded Walkers Wood Sustainable Agricultural Practices Project. July 5, Walkers Wood, St Ann.

Fery, R.L. 1996. "Strategies for controlling pests of pepper and sweetpotato". Kingston, Jamaica.

Fleischer, S. J., J. Reid, J. Lawrence. 1996. Pesticide Resistance Management. Kingston, Jamaica.

Grossman, Lawrence and Andy Roberts. 1999. Geographic Information Systems Workshop (November 16-18, 1999). Kingston, Jamaica.

IPM CRSP Caribbean Site Annual Review and Year 8 Planning Meeting, March 26 –30, 2000.

Jackson, D. M., J. Bohac, and J. Lawrence helped plan IPM CRSP Caribbean Site: IPM Systems Development, Planning Meeting – Year 7 and Beyond, June 27-30, 1999, Charleston, SC.

McDonald, F., J. Lawrence, and D. Clarke-Harris helped coordinate a workshop “: Integrated Commodity Approach to the Development of the Hot Pepper Industry”. St Mary, Jamaica (November 1998).

Ravlin, F.W., E.A. Roberts. 1996. Information Systems Workshop. Kingston, Jamaica.

Training for farmers and technicians was carried out in St Kitts during April 12 and 17, 2000.

## **Mali**

Dembélé, B., J. Westwood, A. Bretaudeau, B. Winkel, M. Kayentao, Kadiatou Touré Gamby, Haoua Traoré Sissoko, A. Yeboah, J.S. Caldwell. 2000. A two-day (July 30 – 31, 2000) exercise in which advanced students and staff at IPR/IFA were given hands-on training in DNA restriction digestion and gel electrophoresis.

Dunkel, F.V. 1999. Workshop on applying techniques used in African agriculture for pest management (primarily nematodes and soil fungi) in small vegetable farms in Virginia. Petersburg, Virginia (October 1999).

Dunkel, F.V. A semester-long workshop that connected undergraduates with the IPM CRSP collaborators and non-government and government organizations in Mali.

Dunkel, F.V. An on-campus mini-workshop was presented for the MSU community. Each extern, including the extern assigned to the EQL in the Central Veterinary Laboratory of Mali, presented the results of their research in Mali. F. Dunkel presented the educational rationale for the extern program and the team presented the 18 minute concept video, "Sights and sounds of Mali from the eyes of the MSU Mali externs."

Dunkel, F.V. In mini-workshop format November 22, 1999 at Peace Corps Headquarters, the IPM CRSP training materials' development process was described and brainstorming undertaken of how they can be disseminated in West Africa via Peace Corps.

Dunkel, F.V., Bernard Philogene, Murray Isman, and Helene Chassion. 2000. Organized a symposium entitled "Natural products on the road to commercialization", National meetings of the Entomological Society of America and Canada, December 2000.

Gamby K. Touré, F. V. Dunkel, Diakité M. Diarra, D. Khibé, Sissoko H. Traoré, M. N'Diaye, C. R. Edwards, and John Caldwell. 1998. "Adventures in Ethnopharmacology: From Village Elders to Toxicology Laboratory to Commercialization." Workshop for the Ethnopharmacology group (undergraduate students) from the University of Montana, Missoula held on 7 November 1998 in Bozeman MT (Montana State University campus).

Gamby K. Touré, Georges Ntougam. 1999. Workshops on participatory on-farm research and integrated pest management for farmers and World Vision trainers in San, Mali (March 1999).

Gamby Kadiatou Toure and Florence V. Dunkel. Training in the use of neem products preharvest and postharvest. Trainees: Philippe Dembele, Agronomist, World Vision-Mali; Oumar Cisse and Yacouba Kone, Peace Corps-Mali; and Brian Dotson, Director, Enterprise Works-Mali.

Gamby Kadiatou Touré, R. Foster, Mariam Théra, Diakité Mariam Diarra, Keith M. Moore, John Caldwell, Sissoko H. Traoré, Anthony Yeboah. 2000-2001. Development of an Integrated Package for Management of Disease and Insect Pests on Green Beans. Development of Farmer Field Schools (FFS) for the dissemination of IPM CRSP technologies. In addition, pesticide safety education modules are being introduced into the FFS program.

## **Philippines**

Adiyoga, W. and G.W. Norton. 2009. Cost and benefits of *Bt* potato with resistance to potato tuber moth in Indonesia. In Norton, G.W. and D.M. Hautea (eds.). Projected Impacts of Agricultural Biotechnologies for Fruits and Vegetables in the Philippines and Indonesia. SEAMEO, Philippines, 184 p.

Agudelo, P. and M. Arevalo. 2009. Plant parasitic nematode identification workshop. Poster prepared for the American Phytopathological Society Office of International Programs, APS Annual Meeting, Portland, OR.

## Publications/Products List

Alberto, R.T., G. Galut, E.B. Gergon, C. Ravina, V.L. Judal, M. Casimero, E.C. Martin, F. Bajo, A. Baltazar, S.A. Miller, M.V. Duca, J.P. Rillon, H.X.T ruong, L. Padua, R.M. Gapasin and J. Halbrendt. 1999. "Workshop on Cultural Management Practices and IPM for Vegetables". PhilRice, Munoz, N.E. July 14-15, 1999.

Alberto, R.T., G. Galut, E.B. Gergon, C. Ravina, V.L. Judal, M. Casimero, E.C. Martin, F. Bajo, A. Baltazar, S.A. Miller, M.V. Duca, J.P. Rillon, H.X.T ruong, L. Padua, R.M. Gapasin and J. Halbrendt. 1999. "Training for Agriculture Technicians and Farmer Leaders on Rice-Vegetables with Emphasis on IPM". PhilRice, Munoz, N.E. August 2-6, 1999.

Arida, G.S., R.T. Alberto, M.S.V. Duca, B.S. Punzal, C.C. Ravina, E.B. Gergon, Padua, L.E., A.C. Lopus, V.P. Gapud, A.M. Baltazar, N.L. Opina, M.C. Lit, L.S. Sebastian, K. Hoover, L.E.-Carlson, G.E. Balagot, A.C. Rola, G. W. Norton, N.S. Talekar, S.A. Miller and E. Rajotte. 2000. Specialized Training Course on Rice-Based Upland Crop Production for Muslim Farmer Leaders and Extension workers on the following topics: Insect pests of Onion and Garlic and Their Management; Insect pests of Eggplant and Tomato and Their Management. August to October, 2000.

Baltazar, A.M., N.L. Opina, M.C. Lit, L.E. Padua, A.C. Rola and G. W. Norton. 1999-2000. Organized Farmer's Meeting (NOGROCOMA).

Baltazar, A.M., N.L. Opina, M.C. Lit, L.E. Padua, A.C. Rola and G. W. Norton. 1999-2000. Presentation of Field Experiments results during quarterly meeting of NOGROCOMA.

Bayer, H.C., G.W. Norton and J. Falck-Zepeda. 2009. Level and implications of regulatory costs in commercializing *Bt* eggplant, virus resistant tomato and Bt rice in the Philippines. *In* Norton, G.W. and D.M. Hautea (eds.). Projected Impacts of Agricultural Biotechnologies for Fruits and Vegetables in the Philippines and Indonesia. SEAMEO, Philippines, pp. 163-181.

Caasi-Lit, M. T., R. G. Maghirang, M.A.A. Capricho, V.P. Gapud, N.L. Opina, R.T. Alberto, S.E. Santiago, N.S. Talekar, E. Rajotte and S.A. Miller. 2000. "Trainers training on Integrated Crop Management for Off-Season Vegetables in Support to Agrikulurang MAKAMASA," held in Bulacan National Agricultural State College, San Ildefonso, Bulacan, 5 Sept – 15 December 2000.

Gapud, V.P., C.V. Pile, G.S. Arida, B. Santiago, G. Balagot, and E.G. Rajotte. 1999. Workshop for the development of a training module for IPM in rice-vegetable systems.

Gergon, E. B., R.T. Alberto, M.S.V. Duca, G.S. Arida, A.M. Baltazar, N.L. Opina, M.C. Lit, L.E. Padua, B.S. Punzal, C.C. Ravina, G.E. Balagot, A.C. Rola, G. W. Norton, N.S. Talekar, E. Rajotte and S. A. Miller. 1999-2000. Season-Long Training of Trainers, Extension Workers and Farm Technicians on IPM on Onion. Regional Crop Protection Center. PhilRice, Munoz, N.E. November 15, 1999 - March 22, 2000.

Harmon, C.L., P. Vergot, J. Xin, T. Momol and S.A. Miller. 2009. Internationalizing plant protection through extension: the International Plant Diagnostic Network. Presented at the 25<sup>th</sup> Annual AIAEE Conference, San Juan, Puerto Rico, May 24-28. *Journal of International Agricultural and Extension Education* 16 (2): 72.

### IPM Impact Assessment for the IPM CRSP

Miller, S.A. 2009. Accomplishments of the IPM CRSP Global Theme: Regional Diagnostic Networks. IPM CRSP Technical Committee Meeting, March 23, Portland, OR.

Miller, S.A. 2009. The International Plant Diagnostic Network (IPDN): improving capacity for diagnosing diseases and pests of African crops. Department of Crop Protection, Ahmadou Bello University, Zaria, Nigeria.

Miller, S.A., Z.M. Kinyua, F. Beed, Z.L. Harmon, J. Xin, R.L. Gilbertson and L. Garcia. 2009. The International Plant Diagnostic Network in Africa: Improving capacity for diagnosing diseases of banana and

## Publications/Products List

other African crops. Banana 2008: Harnessing International Partnerships to Increase Research Impact. October 5-9, Mombasa, Kenya.

Norton G.W. and Raitzer, D.A. 2009. Synthesis and options for enhanced priority assessment for agricultural and natural resources research. *In* Raitzer, D.A. and G.W. Norton. (eds.) *Prioritizing Agricultural Research for Development*. CAB International, Oxfordshire, UK, pp. 208-225.

Norton, G.W. 2009. Methodology, *In* Norton, G.W. and D.M. Hautea (eds.). *Projected Impacts of Agricultural Biotechnologies for Fruits and Vegetables in the Philippines and Indonesia*. SEAMEO, Philippines, pp 11-22.

Norton, G.W. and D.M. Hautea. 2009. *Projected Impacts of Agricultural Biotechnologies for Fruits and Vegetables in the Philippines and Indonesia*. SEAMEO, Philippines, 184 p.

Norton, G.W. and D.M. Hautea. 2009. Summary and conclusions. *In* Norton, G.W. and D.M. Hautea (eds.). *Projected Impacts of Agricultural Biotechnologies for Fruits and Vegetables in the Philippines and Indonesia*. SEAMEO, Philippines, pp. 182-184.

Opina, N.L., R.T. Alberto, S.E. Santiago, and S.A. Miller. 2000. Resource Speaker on the "International Training Course on Plant Breeding," April 3, 2000 at the Institute of Plant Breeding, UPLB.

Opina, N.L., R.T. Alberto, S.E. Santiago, and S.A. Miller. 2000. Resource speaker in "International Training Course on Plant-Soil Relationships and Plant Protection" held in IPB, UPLB, College, Laguna on September 15, 2000.

Raitzer, D.A. and G.W. Norton. 2009. *Introduction to prioritizing agricultural research for development*. *In* Raitzer, D.A. and G.W. Norton. (eds.) *Prioritizing Agricultural Research for Development*. CAB International, Oxfordshire, UK, pp. 1-7.

Raitzer, D.A. and G.W. Norton. 2009. *Prioritizing Agricultural Research for Development*. CAB International, Oxfordshire, UK, 234 p.

### **Southeast Asia**

Networking was accomplished through institutional collaboration among the Philippine Rice Research Institute (PhilRice), Central Luzon State University (CLSU), and the Local Government Units (LGU) of the IPM CRSP sites and the Department of Agriculture.

Ramos, J.M. was resource person/speaker on the use and mass production of VAM in a training of trainers in the Palay Check System. PhilRice CES in February 2009.

Ramos, J.M. was resource person/speaker on the use and mass production of VAM in a training of trainers in the Palay Check System. PhilRice CES. August, 2009.

Rapusas, H.R. was resource person/speaker on IPM in rice and vegetables in a training of trainers in the Palay Check System. PhilRice, Jan. 2009.

Rapusas, H.R. was resource person/speaker on IPM in rice and vegetables in a training of trainers in the Palay Check System. PhilRice, August, 2009.

Rapusas, H.R. was resource person/speaker on IPM on vegetables to the faculty of the National Agricultural University in San Carlos City, Pangasinan

Santiago, S. E. was resource person/speaker on the use and mass production of *Trichoderma* sp. in a training of trainers in the Palay Check System. PhilRice CES and PhilRice Isabela in February 2009.



Santiago, S.E. was resource person/speaker on the use and mass production of *Trichoderma* sp. in a training of trainers in the Palay Check System. PhilRice CES. August, 2009

### **Tanzania**

Luther, G.C. 2006. Integrated pest management with a focus on vegetables. Presentation to trainees for the "Vegetable Seed Production and Marketing Training Course". AVRDC-RCA, Arusha, Tanzania, 14 June 2006.

Luther, G.C. 2006. Biological control. Presentation to trainees for the Vegetable Seed Production and Marketing Training Course". AVRDC-RCA, Arusha, Tanzania, 14 June 2006.

### **Uganda**

Adipala, E., C. Mukankusi, S. Kyamanywa, G. Epieru, H. Warren, H. Willson (2000). Integrated Management of Groundnut Insect Pests and Diseases. NARO, Makerere University and Extension organized field days to allow other farmers see the groundnut trials.

Adipala, E., C. Mukankusi, S. Kyamanywa, G. Epieru, H. Warren, H. Willson (2000). Integrated Management of Groundnut Insect Pests and Diseases. An IPM/CRSP Workshop was organized and took place to present and discuss different IPM/CRSP activities.

Adipala, E., M.W. Ogenga-Latigo, S. Kyamanywa, J. Nabirye, H. Wilson, V. Odeke, C. Iceduna. 2000-2001. Farmer-Participatory Evaluation of Cowpea Integrated Pest Management (IPM) Technologies in Eastern Uganda. IPM CRSP workshops have been organized so as to discuss different on-going activities of the program.

Adipala, E., S. Kyamanywa, G. Epieru, C. Mukankusi, H. Warren, H. Wilson, M. Erbaugh. 2000-2001. Integrated Management of Groundnut Insect Pests and Diseases. NARO, Makerere University and Ministry of Agriculture Animal Industry and Fisheries Extension Departments organised field days to allow farmers to see and share experiences on groundnut production.

Adipala, E., S. Kyamanywa, G. Epieru, C. Mukankusi, H. Warren, H. Wilson, M. Erbaugh. 2000-2001. Integrated Management of Groundnut Insect Pests and Diseases. IPM/CRSP stakeholder Workshops were organised to present and discuss different IPM/CRSP activities.

Agona, J.A., H.R. Willson, Silim-Nahdy, S. Kyamanywa. 1999. Master trainer of trainers workshop for BUCADEV (Buganda Cultural and Development Foundation) and AFRICARE (NGOs) on the use and application of solarisation and botanicals in grain preservation.

Agona, J.A., H.R. Willson, Silim-Nahdy, S. Kyamanywa. 1999. Storage pest management. 3-day workshop in Rakai district, Uganda, 20-22 September 1999.

Bigirwa, G. (1999). Workshop to train extension staff collaborators in the districts of Mubende and Tororo, to acquaint them with GLS disease symptoms and data taking. The training included sensitization of farmers on whose fields studies would be carried out. October 1999.

Bigirwa, G., H. Warren, S. Kyamanywa, T. Kalule. 1999. Maize research priorities and experience: Maize streak virus disease within the maize based cropping system. March 2-3, 1999, Jinja, Uganda.

Bisikwa, J. 2008. The Status of Invasive Plant Management in Uganda at The 4<sup>th</sup> Partners Planning and Reporting Regional Workshop, Addis Ababa, October 13-15, 2008.

Bisikwa, J. 2009. Parthenium Weed Problem Spreads to Uganda at The 5<sup>th</sup> Technical Committee Meeting and Progress Report Workshop of Integrated Pest Management March 1<sup>st</sup>-4<sup>th</sup>, 2009, Kampala, Uganda.

## Publications/Products List

Bisikwa, J. 2009. Status of Invasive alien species in Ugandan Ecosystems featuring The Case of Parthenium Weeds Problem in Uganda at The EATRINET/UVIMA Awareness Workshop, Kampala, Uganda, February 26<sup>th</sup>, 2009.

Erbaugh, J.M., D. Taylor, *et al.* 2000-2001. Meeting of Ugandan social scientists involved with IPM CRSP.

Erbaugh, J.M., D.Taylor, B. Bashasha, P. Padde, S. Kyamanywa, V. Odeke, E. Mwanja. 1999. Field Enumerator Training Workshop. Jinja, Uganda, March 8-9, 1999.

Erbaugh, J.M., D.Taylor, B. Bashasha, P. Padde, S. Kyamanywa, V. Odeke, E. Mwanja. 1999. Workshop on presentation of research results. Mbale, Uganda, August 26-28, 1999.

Erbaugh, J.M., E. Mwanje, S. Kyamanywa, P. Kwibikwa and D. Taylor. 2000-2001. Workshop: The initial session of the IPM training for field extension agents.

Erbaugh, J.M., S. Kyamanywa, B. Bashasha and P. Kwibikwa. 2000. Annual Work plan development meeting held in Jinja, Uganda, March 9-10, 2000.

Erbaugh, J.M., S. Kyamanywa, B. Bashasha and P. Kwibikwa. 2000. Annual Report Preparation Meeting held in Entebbe, Uganda, September, 2000.

Erbaugh, J.M., S. Kyamanywa, B. Bashasha and P. Kwibikwa. 2000. Two-day planning meeting, Kumi Town, Uganda, to prepare for the launching of the Pilot IPM Field Training Program.

Erbaugh, J.M., S. Kyamanywa, B. Bashasha and P. Kwibikwa. 2000. Trained 23 farmers with Socadido Farmer Association, Kumi District, in pest prioritization and IPM, March 15, 2000.

Erbaugh, J.M., S. Kyamanywa, *et al.* 2001. IPM CRSP Annual Report Preparation Workshop, September 21-22, 2001.

Graduate workshop held in Makerere University on 16 - 18 August, 2000.

IPM CRSP Annual Work Plan Workshop in Jinja, Uganda, April, 2001.

Kaaya, A. N., H. Warren, E. Adipala, S. Kyamanywa, J. A. Agona, G. Bigirwa. 2000-2001. Mould Incidence and Mycotoxin Contamination in Maize and Groundnuts in Uganda. Information on moulds and mycotoxins was used to design part of the module on "Postharvest handling of non-perishable produce", Dept. of Food Science I@mak.com Pilot Project.

Kyamanywa, S., M.W. Ogenga-Latigo, E. Adipala, H. Wilson, V. Odeke, C. Iceduna, J. Nabirye. 2000-2001. Damage-Yield Relationship and Economic Injury Levels of Flower Thrips on Cowpea. Makerere University Cowpea Improvement Project and IPM CRSP held a joint workshop.

Makerere University Cowpea Project Pallisa and Kumi District agricultural offices have organized field days to allow other farmers to participate in the activities of the cowpea trials. 2000-2001.

## Ukraine

Kharytonov and Maslikova. 2006. Took part as volunteers in two training courses on tomato growing to teach unemployed individuals - invited by Dnipropetrovsk, Occupation Center and Dnipropetrovsk State Agrarian University Extension Center in September 2006. One hundred unemployed individuals received instruction.

Zolochiv district, Ukraine. 2006. A workshop was held on 12-13 September 2006 on the farms "Lesi Yukhym" (v. Sknyliv) and of Zolochiv Agricultural College (v. Novoselyshcha of Zolochiv district) "Monitoring of the development of insects and diseases" and "Prospects of an integrated plant protection system and

## Publications/Products List

organic agriculture". Apples and cucumbers were given special attention. The target audience: farmers, college instructors, plant protection workers and non-governmental organizations. 60 persons participated.

## 20. ABSTRACTS

### General/World

Anon. 2008. Accomplishments of the IPM CRSP Global Theme – Rergional Diagnostic Laboratories.

Amata R.L. 2010. Contributions Made by African Women in Agricultural Research and Development with Reference to Passion Fruit, Cassava and Sweet Potato Research. Presented at the Gender and Diversity invitation meeting of 2010 AWARD Fellowship recipients at the World Agroforestry Centre (ICRAF) on 27 July 2010

Amata R.L. 2010. Fungal Diseases of Tomato, Physiological Disorders and Their Management. Paper presented during the IPM CRSP Tomato Grafting and High Tunnel workshop held at KARI-Thika on 12<sup>th</sup> - 13<sup>th</sup> April 2010.

Chung, P., M. Young, F. Webb, L. Myers, S. Fleischer, D. Miller, S. Crawford, J. Voortman, R. Ruiz, Y. Xia, and R. Stinner. 2008. Interactive cartography of fruit flies in the Caribbean Basin.

Diaz, F. J.1, Jimenez, J., Weller. 2010. Reaction and agronomic behavior of five cowpea varieties for the management of root-knot nematodes and its subsequent effect on a sweet potato cultivar. Presentation at the 28<sup>th</sup> International Horticulture Congress held in Lisbon, Portugal August 22-27, 2010.

Diaz, F. J.1, Jimenez, J., Weller. 2010. Susceptibility of six cowpea cultivars to species of root-knot nematode in Honduras. Presentation at the 28<sup>th</sup> International Horticulture Congress held in Lisbon, Portugal August 22-27, 2010.

Diaz, F.J., S. Weller, and J.M. Rivera. 2010. Reaction and Agronomic Behavior of Five Cowpea Varieties for the Management of Root-knot Nematodes and its Subsequent Effect on a Sweet Potato Cultivar. Proceedings of the 28<sup>th</sup> International Horticultural Congress of the International Society for Horticultural Sciences. Lisbon, Portugal. August 22-27, 2010.

Dinakaran, D., G. Gajendran, S. Mohankumar, G. Karthikeyan, S. Mathiyazhahan, S. Thiruvudainambi, and V. Jayabal. 2011. Management of onion purple blotch with bioformulations and fungicides. Abstract of paper presented In APS - IPPC Joint meeting organized by APS and IAPPS, Honolulu, Hawaii, USA, August 6-10.

Durairaj, C., G. Karthikeyan, G. Ramakrishnan, G. Gajendran, D. Dinakaran, L. Pugalendhi, E. I. Jonathan, R. Samiyappan, and S. Mohankumar. 2011. In IPM Packages for vegetable crops in India. Abstract of paper presented in APS - IPPC Joint meeting organized by APS and IAPPS, Honolulu, Hawaii, USA, August 6-10.

Gajendran, G., D. Dinakaran, S. Mohankumar, G. Karthikeyan, and V. Jayabal. 2011. Evaluation and popularization of integrated pest management module in onion. Abstract of paper presented In APS - IPPC Joint meeting organized by APS and IAPPS, Honolulu, Hawaii, USA, August 6-10.

Ivakdalam L, A Nurmansyah, D Sartiami, A Rauf. 2010. Dampak ekonomi serangan hama invasif baru *Paracoccus marginatus* (Hemiptera: Pseudococcidae) pada usahatani pepaya di Kabupaten Bogor. Seminar Nasional PEI Cabang Bogor, 24 Juni 2010.

Kaushik, N. 2010. Demonstration and evaluation of IPM modules for management of diseases in vegetable crops in India. Poster presented in 12<sup>th</sup> IUPAC International Congress of Pesticide Chemistry at University of Melbourne, Australia during 3-8, July, 2010

- Kinyua, Z., M. Wabule, S. Miller, F. Beed, and G. Siboe. 2008. Successes and challenges of establishing a plant disease diagnostic network in East Africa.
- Kumar, P.L., O.J. Alabi, R. Hanna and R.A. Naidu. 2009. Coat protein-based genealogy of *Banana bunchy top virus* in the sub-Saharan Africa. *Phytopathology* 99: S68.
- Kuria S.N, J.M. Kibaki, A.M. Ndegwa, M.M. Waiganjo and R.G. Munene. 2008. Evaluation of Advanced Tomato Breeding Lines for Resistance to Bacterial Wilt (*Ralstonia solanacearum*) 8<sup>th</sup> Workshop on Sustainable Horticultural Production in the Tropics. Masinde Muliro University of Science and Technology (MMUST), Kakamega, 8<sup>th</sup>-11<sup>th</sup> December 2008. *Book of Abstract* p.34
- Kusumah YM, Nuraeni I. 2010. Keefektifan ekstrak buah rerak dan molase sebagai pelindung ultraviolet untuk SINPV. Seminar Nasional PEI Cabang Yogyakarta, 1-2 Oktober 2010.
- Kyamanywa, S., R. Namirembe-Ssokko, J. Kovach, and M. Erbaugh. 2008. Effect of grafting and resistant varieties on incidence of bacterial wilt (*Ralstonia solanacearum*) on tomatoes in Wakiso District.
- Maharani Y, D Sartiami, R Anwar, A Rauf. 2010. Perkembangan dan reproduksi kutu putih pepaya, *Paracoccus marginatus* (Hemiptera: Pseudococcidae). Seminar Nasional PEI Cabang Yogyakarta, 1-2 Oktober 2010.
- Mersie, W., L. Gebrehiwot, A. Diriba, A. Abdurahim, A. McConnachie, A. Dejen, B. Abrha, B. Tadesse, F. Asaregew, G. Alemayehu, K. Zewdie, K. Kashe, K. Samuel, L. Nigatu, L. Strathie, M. Dejene, M. Dawd, M. Negeri, R. Gautam, R. Gebre-Tsadik, S. Regassa, S. Tadesse, S. Adkins, T. Tana, and T. Araya. 2008. Management of the Weed Parthenium (*Parthenium hysterophorus* L.) in Eastern and Southern Africa Using Intergrated Cultural and Biological Control Measures.
- Miller, S. A. IPDN: Status and Future. 8 December 2009. National Plant Diagnostic Network Meeting, Miami, FL.
- Miller, S. C. Harmon, R. Gilbertson, T. Momol, M. Arevalo, F. Beed, Z. Kinyua, S. Tolin, and J. Xin.
- Miller, S., C. Harmon, M. Arevalo, F. Beed, Z. Kinyua, S. Tolin, and J. Xin. 2008. Advanced Plant Disease Diagnostic Training – An International Short Course.
- Mohankumar, S., T. Thiyagarajan, P. Yasodha, M. Murugan, K. Angappan, V. Balasubramani, G. Amutha, B. Preetha, M. Boominathan, P. Karuppuchamy, V. Prakasam, P. Balasubramanian, E. I. Jonathan, R. Samiyappan, E. A. Heinrichs and Ed Rajotte .2010. Ecology, population variation and management of whiteflies and thrips infesting vegetable crops. Paper presented in Conference on Whitefly and Thrips Transmitted Viruses (WTTV) held at University of Delhi south campus during 27-28<sup>th</sup> August 2010.
- Naidu, R., S. Adkins, A. Chitturi, S. Diffie, P. Hanson, G. Karthikeyan, S. Kunkaliker, S. Poojari, P. Rajagopalan, V. Rao, K. Ravi, D. Riley, S. Sivamani, and S. Yeh. 2008. Integrated Management of Thripsborne tospoviruses in Vegetable Cropping Systems in South and Southeast Asia.
- Norton, G., T. Hristovska, J. Bayer, and A. Rakshit. 2008. IPM CRSP Impact Assessment.
- Otipa, M. J., Feng Q, Erbaugh, M., Amata, R., Waiganjo, M., Ateka, E., Mamati, E., Miano, D. Viruses Devastate Passion Fruit Production Systems in Kenya. 2010. A paper presented at Plant Virology department at Ohio State University-OARDC, 16<sup>th</sup> September, 2010, USA
- Poojari, S., Damayanti, T.A., Manoranjitham, K., Alabi, O.J., Karthikeyan, G., Kumar, L.K., Rauf, A., Kodetham, G. and Naidu, R.A. 2010. Global partnerships for diagnosis of plant viruses in developing countries using FTA® classic card technology. WSU Academic Showcase, March 26, 2010, Pullman.

Poojari, S., Karthikeyan, G., Alabi, O.J., Damayanti, T.A., Manoranjitham, K., Balakrishnan, N. and Naidu, R.A. 2010. Application of a simple extraction method for the detection of viruses in plants and insect vectors. *Phytopathology* 100:S101.

Pramayudi N, D Hindayana, A Rauf. 2010. Biologi dan pemangsa *Curinus coeruleus* (Coleoptera: Coccinellidae) pada kutu putih pepaya, *Paracoccus marginatus* (Hemiptera: Pseudococcidae). Seminar Nasional PEI Cabang Bogor, 24 Juni 2010.

Rebu YU, IW Winasa, A Rauf . 2010. Potensi parasitoid *Acerophagus papayae* untuk pengendalian hayati kutu putih pepaya, *Paracoccus marginatus*. Seminar Nasional PEI Cabang Yogyakarta, 1-2 Oktober 2010.

Rustam R, A Rauf, N Maryana, Pudjianto, Dadang. 2010. Tanggap fungsional parasitoid *Opius chromatomyiae* (Hymenoptera: Braconidae) pada lalat pengorok daun *Liriomyza huidobrensis* (Diptera: Agromyzidae). Seminar Nasional PEI Cabang Yogyakarta, 1-2 Oktober 2010.

Saidov, N. and D. Landis. 2008. Landscape Ecology and Biodiversity to Enhance Biodiversity and Biological Pest Management. Abstract accepted for oral presentation to Ninth International Conference on Dry Land Development: Sustainable Development in Dry Land-Meeting the Challenge of Global Climate Change, 7-10 November 2008, Alexandria, Egypt.

Samsudin, I Farida, DE Irmawan. 2009. Teknologi pengendalian ramah lingkungan hama pengorok daun *Liriomyza chinensis* pada tanaman bawang merah. Seminar Nasional Perlindungan Tanaman. Bogor, 5-6 Agustus 2009.

Shylena Y, R Anwar. 2010. Insiden cendawan Entomophthorales pada kutu putih pepaya, *Paracoccus marginatus*, pada pertanaman pepaya di Bogor. Seminar Nasional PEI Cabang Yogyakarta, 1-2 Oktober 2010.

Stinner, R., and Y. Xia. Integrated Pest Management Tactics Information System by Using Web Service.

Strathie, L., and A. McConnachie. 2008. Determining distribution as a management tool for control of the invasive plant *Parthenium hysterophorus* (Asteraceae) in eastern and southern Africa.

Sudarsana, P., T. Damayanti, M. Karuppanan, O.J. Alabi, G. Karthikeyan, P.L. Kumar, A. Rauf, G. Kodetham and R.A. Naidu. 2009. Diagnosis of plant viruses using FTA Classic Card technology. *Phytopathology* 99:S125.

Tolin, S., J. Brown, C. Deom, R. Gilbertson, M. Palmieri, M. Rivera, J. Melgar, M. Roca, S. McDonald, W. McLaughlin, R. Martinez, M. Koutou, W. Leke, S. Green, and J. Legg. 2008. Collaborative Assessment and Management of Aphid and Whitefly Transmitted Viruses in the Caribbean, Central America, and Sub-Saharan Africa. Global.

Vaughan, L., B. Kemo, A. Niassy, D. Kpindou, and S. Jaronski. 2008. Efficacy of Low-dose applications of a biopesticide for grasshopper control in W. African grasslands. IPM CRSP Workshop Abstract of Posters. IPM CRSP Conference, Manila.

Waganjo M.M., Kuria SN, Kambo CK, Njeru, Kyamanywa S, Erbaugh M, Kovach J. 2010. Screen house Seedling Establishment for Pest Control in Smallholder Tomato Production in Kirinyaga District, Kenya. Paper accepted for oral presentation during the International Society of Horticultural Science Congress, Lisbon, Portugal. August, 2010.

Wood, S., P. Pardey, and J. Beddow. 2008. Strategic Assessment of Global Pest Management Priorities.

### **Bangladesh**

Miller, S. A. IPDN in South Asia: Plans for India. January 2010. Bangladesh Agricultural Research Institute, Joydephur, Gazipur, Bangladesh.

Nahar, M. S., M. A. Rahman, M. Afroz, M. Rahman, A.N.M. Rezaul Karim, and S. A. Miller. 2011. Trichocompost and Tricho-leachate: Bio-products for effective management of soil-borne disease pathogens and production of healthy cabbage seedlings. Abstract published In the proceedings of International IPM Conference held at the Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh, January 20-22.

### **Central Asia**

Alam, S., M. Sarker, A. Rahman, M. Islam, M. Mian, M. Nasiruddin, E. Rajotte, and A. Karim. 2008. Integrated Management of Fruit Fly and Borer Pest Complex in bitter Gourd Crop. Central Asia.

Aitmatov, M., G. Bird, and W. Pett. 2008. The Integrated Pest Management Farm Field School Program in Central Asia. Central Asia.

Saidov, N. and D. Landis. 2008. Landscape Ecology and biodiversity to Enhance Biodiversity and biological Pest Management. Central Asia.

Tashpulatova, B. and F. Zalom. 2008. Enhancing Efficiency and Expanding Product Lines of Central Asia Biolaboratories: Laboratory and Field Studies of the Predaceous Mites *Amblyseius cucumeris* and *Amblyseius mckensiei*. Central Asia.

### **East Africa**

Erbaugh, J.M., E. Wairimu, M. Waiganjo, and K. Sibuga. 2010. Implications of Gender and Context on the Design of IPM Programs for Tomato Growers in East Africa. Abstract, Journal of International Agricultural and Extension Education, 17: 55.

Erbaugh, J.M., E. Wairimu, M. Waiganjo, and K. Sibuga. 2010. Implications of Gender and Context on the Design of IPM Programs for Tomato Growers in East Africa. Presented at the 26<sup>th</sup> Annual conference of AIAEE, May 16-19, Saskatoon, Saskatchewan, Canada.

### **Eastern Europe**

Cota, E. 2008 The Effect of Azadirachtin (NeemAzal), Thiamethoxam (Actara), Acetamiprid (Ramplan), Pyrethrin (Naturalis) on control of Greenhouse Whitefly *Trialeurodes vaporariorum* (Hemiptera: Aleyrodidae) on Tomato in Greenhouse. Eastern Europe.

Jovani, V., J. Tedeschini, A. Ramadhi, D. Pfeiffer. 2008. Soil Solarization, A Nonchemical Method to Control Root Knot Nematode and to Improve the Yield of Greenhouse Crops. Eastern Europe

Pace, H., J. Tedeschini, D. Pfeiffer. 2008. Effects of Soil Solarization for Controlling Soil-borne Fungi in Tomato Plastic houses in Albania. Eastern Europe.

Tedeschini, J., H. Pace, E. Cota, Sh. Shahini, S. Gjini, and D. Pfeiffer. Implementation of IPM scouting programs for tomato crop production in greenhouses. Eastern Europe.

### **Ecuador**

Suarez, C., D. Vera, P. Backman, J. Alwang, R. Vera. 2008. Development of Integrated Pest Management Strategies for mixed crop based in Cocoa/plantain in Ecuador. LAC.

Vera, D., C. Suarez, Y. Xia, and J. Alwang. 2008. Use of Information Technologies (IT) and Databases as a tool to implement pest management systems in Ecuador.

### **Ethiopia**

Dawd, M., M. Negeri, K. Zewdie, A. Megerssa. 2008. Biocontrol of Parthenium Weed in Ethiopia: Progress and Prospects. Africa.

Zewdie, K. 2010. The Current Status of Biological Control of Parthenium Weed (*Parthenium hysterophorous* L) in Ethiopia” at a regional workshop on Parthenium organized by Tigrai Agricultural Research Institute. September 2-3, 2010 at Mekelle, Ethiopia.

Zewdie, K. 2010. Biological control activities on *Parthenium hysterophorus* in Ethiopia. Workshop on “Removing Barriers to Invasive Plant Management in Ethiopia” in Addis Ababa. September 27-29, 2010

### **Guatemala**

Barrientos, R., M. Zeiss, M. Bustamante and O. Duarte. 1999. Efficacy of Microbial Insecticides, Neem, and Soap for Control of *Dysmicoccus brevipes* (Homoptera: Pseudococcidae) in Organic Pineapple in Lake Yojoa, Honduras. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Sánchez, G.E., M. Wade and S. Weller. 1999. Effects of Intercropping on Insect Pests, Diseases, and Yield of Broccoli in the Northern and Central Highlands of Guatemala. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

### **India**

Dinakaran, D., S. Mathiyazhagan, S. Thiruvudainambi, G. Gajendran, and V. Jayabal. 2011. Management of purple blotch (*Alternaria porri* (Ellis) Neerg.) of onion with newer molecule, Tebuconazole 250 EC. pp. 237-238. Souvenir and Abstract of National Symposium on “Alliums: Current Scenario and Emerging Trends” organised by Indian Society of Alliums and Directorate of Onion and Garlic, March 12-14.

Gajendran, G., D. Dinakaran, S. Mohankumar, G. Karthikeyan, and V. Jayabal. 2011. Development and popularization of integrated pest and disease management module in onion. Souvenir and Abstract of In National Symposium on “Alliums: Current Scenario and Emerging Trends” organised by Indian Society of Alliums and Directorate of Onion and Garlic, March 12-14.

Gajendran, G., V. R. Saminathan, A. Kalyanasundaram, and V. Jayabal. 2011. Management of onion thrips, *Thrips tabaci* L. (Thripidae: Thysanoptera) with Fipronil. Souvenir and Abstract of In the National Symposium on “Alliums: Current Scenario and Emerging Trends” organised by Indian Society of Alliums and Directorate of Onion and Garlic, March 12-15.

Karthikeyan, G. 2010. Molecular characterization of Tobacco streak virus in soybean. Presentation at Pulse Scientists Meeting, TNAU, March 29-30, 2010.

Karthikeyan, G. 2010. Varietal screening and rouging trial data. Presentation at Horticulture Scientists Meeting, TNAU, May 11-12, 2010.

Karthikeyan, G. Rouging as a management tactic against PBNV in tomato, Presentation at Scientific Workers Conference, TNAU, May 25-26, 2010.

Miller, S. A. and Baysal-Gurel, F. Tomato canker and the impact of grafting on the disease. 11 February 2010, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore, India.



Miller, S. A. IPDN in South Asia: Plans for India. January 2010. Tamil Nadu Agricultural University, Coimbatore, India.

Miller, S. A. The International Plant Diagnostic Network (IPDN): Improving capacity for diagnosing diseases. 11 February 2010, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore, India.

Ramakrishnan, S., and S.P. Deepa. 2011. Biomangement of nematode fungal disease complex in medicinal coleus, *Coleus forskohlii* using *Trichoderma viride*. In the National Symposium on Harnessing biodiversity for biological control of crop pests, Society for Biocontrol Advancement, NBAII, Bangalore, Abst, May 25-26.

### Jamaica

Bohac, J.R., J.K. Peterson, D.M. Jackson, H.F. Harrison, and M.E. Snook. 2001. Increased efficiency of selection of pest resistant sweetpotato breeding lines through identification and quantitation of biochemical resistance compounds. Abstract AIII-O-1 in Guide for Participants, Sweetpotato: Food and Health for the Future, an international symposium sponsored by the International Society for Horticultural Science (ISHA), the International Potato Center (CIP), and the Universidad Nacional Agraria La Molina (UNALM), 26-29 November 2001, Lima, Peru. (abstract).

Bohac, J.R., P.D. Dukes, J.D. Mueller, and D.M. Jackson. 1998. Progress Report for 1997- Sweetpotato breeding and genetics. Page 32 In W. D. McLaurin (ed.), National Sweetpotato Collaborators Group Progress Report, 1997.

Eivazi, F., C. Haenchen, and J. Lindsay. 1997. "Increasing phosphorus availability to *Capsicum chinense* in tropical soils". Eleventh World Fertilizer Congress, Ghent, Belgium. 7-13 September, 1997.

Fery, R.L. and J.A. Thies. 1996. Evaluation of scotch bonnet and habanero peppers (*Capsicum chinense*) for resistance to southern root-knot nematodes. ASHS Annual Conference, Lexington, KY, 6-10 Oct 1996. pp. 621-622.

Fery, R.L., and J.A. Thies, and P.D. Dukes. 1998. Resistance in bell pepper to southern root-knot nematodes: Characterization of resistance and development of resistant cultivars. p. 216. Abstracts of the XXV International Horticultural Congress, Brussels, Belgium, August 2-7, 1998.

Fery, R.L., and J.A. Thies. 1998. Inheritance of resistance to the southern root-knot nematode in *Capsicum Chinese* Jacq. *HortScience* 33:500.

Fery, R.L., and J.A. Thies. 1999. Genetic analysis of resistance to the peanut root-knot nematode exhibited by the *Capsicum chinense* germplasm line PA-353. *HortScience* 34:445.

Fery, R.L., P.D. Dukes, and J.A. Thies. 1996. Development of bell-type pepper cultivars with resistance to root-knot nematodes. p. 33. Proc. Natl. Pepper Conf., Naples, FL, December 8-11, 1996.

Jackson, D.M., A.Q. Villordon, and J.R. Bohac. 1999. Pollination of sweetpotatoes in polycross seed nurseries. *HortScience* 34:837. (Abstract).

Jackson, D.M., J.R. Bohac, and P.D. Dukes. 1998. Progress Report for 1997- Resistance of regional entries of sweetpotato to soil insects, Charleston, S. C., 1997. Pages 32-33 In W. D. McLaurin (ed.), National Sweetpotato Collaborators Group Progress Report, 1997.

## Publications/Products List

Jackson, D.M., J.R. Bohac, K.M. Dalip, J.Lawrence, D. Clarke-Harris, L. McComie, J. Gore, D. McGlashan, P. Chung, S. Edwards, S. Tolin, and C. Edwards. 2001. Integrated Pest Management of Sweetpotato in the Caribbean. Abstract BII-O-1 in Guide for Participants, Sweetpotato: Food and Health for the Future, an international symposium sponsored by the International Society for Horticultural Science (ISHA), the International Potato Center (CIP), and the Universidad Nacional Agraria La Molina (UNALM), 26-29 November 2001, Lima, Peru. (abstract).

McDonald, S., and S. Tolin. 2008. Survey of farmer practices in two tomato-growing areas of Jamaica. LAC.

Peterson, J.K., D.M. Jackson, and J.R. Bohac. 2001. Insecticidal compounds isolated from sweetpotato cortex tissues. *HortScience* 36:851. (Abstract)

Thies, J.A., J.D. Mueller and R.L. Fery. 1997. Management of *Meloidogyne incognita*: crop rotation and root-knot resistant pepper. *J. Nematol.* 29 (Accepted 23 July 1997).

Thies, J.A., R.L. Fery, and J.D. Mueller. 1998. Resistance in pepper to southern root-knot nematodes (*Meloidogyne incognita*). *Russian J. Nematol.* 6:83.

### Kenya

Amata R.L., Otipa M J., Kuria S., Kahinga J., Menza M., Wasike J, Waiganjo M. 2010. IPM CRSP Passion Fruit Research in Kenya. A presentation made at the IPM CRSP Steering Committee Meeting held in Mbale Uganda , 20<sup>th</sup>– 23<sup>rd</sup> June 2010.

Amata, R. L., Otipa, M. J., Waiganjo, M., Wasilwa L, Kinoti, J, Kyamanwa S., Erbaugh .2009. Passion Fruit Production Systems Management Strategies for Fungal Diseases in Kenya. In the book of Abstracts, 1st All Africa Horticulture Congress, Safari Park Hotel Nairobi, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya, p. 88.

Kambo C.M., Waiganjo M.M . and Njeru C. 2010. Tomato : Integrated Pest Management. Presented at the Tomato IPM Workshop Held at KARI-Thika 12th-13th April 2010

Kihara S.N., Kinyua Z.M., Amata R.L. and Waiganjo M.M. 2010. Nematodes in Tomato Production. Paper presented during the Tomato Grafting and High Tunnel workshop held at KARI-Thika on 12<sup>th</sup> -13<sup>th</sup> April 2010.

Kinyua Z.M., Amata R.L., Kihara S.N. and Miller S.A. 2010. Tomato Diseases and their Management. Paper presented during the Tomato Grafting and High Tunnel workshop held at KARI-Thika on 12<sup>th</sup> -13<sup>th</sup> April 2010.

Kleinhenz M. 2010. Grafting as a Tool in IPM-based Tomato Production in East Africa: Idea to Practice. Paper presented during the Tomato Grafting and High Tunnel workshop held at KARI-Thika on 12<sup>th</sup> -13<sup>th</sup> April 2010.

Kleinhenz M. High Tunnels as a Tool in IPM-based Horticultural Crop Production in East Africa: Idea to Practice. Paper presented during the Tomato Grafting and High Tunnel workshop held at KARI-Thika on 12<sup>th</sup> -13<sup>th</sup> April 2010.

Kuria S.N, M.M.Waiganjo, B.M. Ngari, S.B. Wepukhulu, M. Erbaugh, J. Kovach and D. Taylor. 2009. Comparative Performance of Introduced Hybrid Tomato Varieties and Locally Bred Tomato Lines against Bacterial Wilt (*Ralstonia solanacearum*) and Root Knot Nematodes at Mwea in Kenya. All Africa Horticulture Congress, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya. *Book of Abstract p.*

Kuria, S.N., Waiganjo, M., Erbaugh, M., Amata, R., Menza, M and Kinyua, Z. Tomato Nursery Preparation and Crop Management. Presented at the Tomato IPM Workshop Held at KARI-Thika 12th-13th April 2010

- Kyamanywa S. Pesticide handling and Safety: Reducing Pesticide Problems, Side Effects. Paper presented during the Tomato Grafting and High Tunnel workshop held at KARI-Thika on 12<sup>th</sup> -13<sup>th</sup> April 2010.
- Martin, M. S., Goble, A. R., N'Diaye, M., Dembélé, B., Gamby, K. Mullins, D., Fell, R., and Westwood, J. H. 2004. Characterization of foliar-applied potash solution as a non-selective herbicide in Malian agriculture. 4th International Weed Science Congress Abstracts. p. 87.
- Mbaka J, L. Wasilwa and M. Maina. 2009. Banana for food, income and Nutrition Security: the role of macro and micro propagation in Kenya. Poster presented at All Africa Horticulture Congress, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya. *Book of Abstract p.*
- Mbaka, J.N., M.M. Waiganjo and Z. Kinyua. 2008. Creation of awareness on banana Xanthomonas wilt (*Xanthomonas campestris* pv *musacearum*) in Kenya. Poster presented during the 8<sup>th</sup> Workshop on Sustainable Horticultural Production in the Tropics held at Masinde Muliro University of Science and Technology (MMUST), KAKAMEGA December 8<sup>th</sup>-11<sup>th</sup> 2008. *Book of Abstract p.42*
- Menza, M.K. 2010. Demonstration on Low Cost High Tunnel Tomato Production for Smallholder Growers in Arid Areas; Vegetable Production Technologies at KARI-Marsabit Field Day. January 26, 2010
- Menza, M.K. 2010. Vegetable Production under Low Cost High Tunnels Smallholder Growers in Arid Areas and Semi-arid Areas. Vegetable Pest Management at KARI Workshop on Developing Content for Arid Lands Agriculture, Marsabit, May 2-7, 2010.
- Miller S. 2010. Diseases of Tomatoes in Protected Culture. Paper presented during the Tomato Grafting and High Tunnel workshop held at KARI-Thika on 12<sup>th</sup> -13<sup>th</sup> April 2010.
- Otipa, M J, Wasilwa, L. A and Amata, R. L. 2009. Production Trends of Passion Fruit in Kenya. In the book of Abstracts, 1st All Africa Horticulture Congress, Safari Park Hotel Nairobi, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya, p. 154.
- Otipa, M. J, Amata, R. L, Waiganjo, M, Mureithi, J. G, Wasilwa, Ateka L, E, Mamati E, Miano, D, Kinoti, J, Kyamanywa, S, Erbaugh, M. and Miller, S. 2009. Challenges Facing Passion Fruit Smallholder Pro-Poor Farmers in North Rift Region of Kenya. In the book of Abstracts, 1st All Africa Horticulture Congress, Safari Park Hotel Nairobi, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya, p. 154.
- Otipa, M. J. 2009. Distribution, Characterization and Reaction of Passion Fruit Germplasm to Viruses in Kenya. A PhD proposal presentation to the TOP Management at KARI Headquarters on 24<sup>th</sup> July 2009.
- Otipa, M. J. 2009. Passion Fruit Work Collaboration with Ohio State University under IPM-CRSP Project Funded by USAID. Presented to Secretary of State Hillary Rodham Clinton and Secretary of Agriculture Tom Vilsack, Congress Woman Nita Lowey (New York), Congressman Donald Payne (New Jersey), and African Advisor to Secretary of State John Carson at the KARI-NARL centre on August 5<sup>th</sup> 2009, Nairobi, Kenya.
- Robert. The effect of Substrate type and treatment in the Suppression of *Fusarium oxysporium* f. sp. *Passiflorae* under irrigation conditions. Kenya- Africa.
- Waiganjo M.M, Ngari B.M., Wepukhulu S.B., Kuria S.N., Wabule M.N., Erbaugh M., Kovach J., Taylor D. 2009. Ascertaining Survey Information through Biological Monitoring: A Case Study of Tomato Pest Management Practices in Kirinyaga District, Kenya. In the book of Abstracts, 1st All Africa Horticulture Congress, Safari Park Hotel Nairobi, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya, p. 127.
- Waiganjo M.M., C.N. Waturu, J.K. Njuguna G.W. Mbugua and L. Gitonga. 2008. Banana Production Challenges and Some Research Interventions Undertaken By KARI-Horticultural Program Under The USAID-SO7 Project. Poster presented during the International Conference on Banana and Plantain:

## Publications/Products List

Harnessing international partnerships to increase research impact' held at Leisure Lodge Resort Mombasa Kenya 5-9<sup>th</sup> October, 2008. *Book of Abstract p.143-144*

Waiganjo, M., M. Wabule, B. Ngari, S. Kuria, S. Kyamanywa, M. Erbaugh, J. Kovach, D. Taylor, and D. Maxwell. 2008. Smallholder Tomato Production constraints in Kirinyaga District, Kenya and some Promising Interventions Identified Through the IPM-CRSP Participatory Research. Kenya-Africa.

Waiganjo, M.M, Kyamanywa, S, Maerere, M, Sibuga, K, Amata, R, Kuria, S, Kahinga, J, Otipa, M, Erbaugh M, Kovach, J, Namirembe-Ssenko R, Karungi, J, Ssemakula, M. 2009. An Overview of Recent Achievements and Challenges in the USAID-IPM CRSP Activities among Smallholder Tomato and Passion Fruit Growers in East Africa. In the book of Abstracts, 1st All Africa Horticulture Congress, Safari Park Hotel Nairobi, 31<sup>st</sup> August to 3<sup>rd</sup> September 2009, Nairobi, Kenya, p. 111.

Waiganjo, M.M., M.K. Menza, and S. Kuria presented Efficacy Training Course on Requirements, Procedures, and Protocols for Pest Control Products, Biological Efficacy Testing at KARI-Thika to Research Officers.

### LAC

Harmon, C., T. Momol, M. Arevalo, J. Xin, and S. Miller. 2008. Diagnostic capacity-building in Central America through assessment, training, and DDIS. LAC.

Monitoring *Begomovirus* (Geminiviridae) in whitefly (*Bemisia tabaci*) from Salamá and other valleys in Guatemala, as part of an integrated pest management program in tomato. LAC.

Palmieri, M, W. Argueta, W. Romero, V. Porres, T. Peña, and O. Lavagnino. 2008. Tosspovirus presence in thrips and thrips species presence in Guatemalan fields and crops. LAC.

Palmieri, M., E. Dardón, A. Ávalos, L. Ortiz, M. Velázquez, E. Solares, and R. Gilbertson. 2008.

Suarez, C., D. Vera, J. Alwang, W. Flowers, C. Harris, G. Norton, and R. Williams. 2008. Integrated crop management: a strategy for pest and sidease control in a perennial crop in the tropics. LAC.

Unk. IPM CRSP in Honduras: Optimizing the Utilization of Available Resources for Cost-Effective, Efficient and Safe Pest Control in Tropical Environments. LAC.

### Mali

Dupree, A., D.A. Jenkins, F.V. Dunkel. 1997. Can neem leaf powder reduce infestations of *Callosobruchus maculatus*? Minority Apprenticeship Program Student Symposium. Montana State University-Bozeman. Abstract no. 12.

Miller, S. A. IPDN in South Asia: Plans for Nepal. January 2010. IDE, Kathmandu, Nepal.

Moore, K., K. Touré, B. Dembelé 2001. Increase Malian farmer income by IPM technologies and institutional changes in Mali. Book abstract of AAIS 14 th Meeting and Scientific Conference in Addis Ababa, Ethiopia, from 4<sup>th</sup> to 8 June 2001.

### Nepal

Touré, K., R. Foster 2001. Integrated Protection of the culture of French bean without chemical insecticides use in Mali. Book abstract of AAIS 14 th Meeting and Scientific Conference in Addis Ababa, Ethiopia, from 4<sup>th</sup> to 8 June 2001.

### Nicaragua

- Andrango, R. 2010. FFS for carrots IPM. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Arguello, H. 2010. Evaluation of preventive and curative IPM tactics for tomatoes in the north zone in Nicaragua. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Briceño, M. 2010. White grub Control (*Phylophaga spp.*) with the Nematode *Heterorhabditis bacteriophora*. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Briceño, M. 2010. White grub Control (*Phylophaga spp.*) with the Nematode *Heterorhabditis bacteriophora*. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Castellanos, M. 2010. Incidence evaluation of golden mosaic virus in dry beans cultivars. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Erazo, L. 2010. Temperature effect over the development of thrips *Pseudophilothrips ichini* (*Phlaeothripidae*), a potential biological control of *Schinus terebinthifolius* (*Anacardiaceae*) in Florida. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Espinoza, H.R., and R. Foster. 2010. Effect on Chinese Eggplant Production of the Diversification of Habitat for Natural Populations of the Predatory Pirate Bug *Orius insidiosus* and Other Predators of *Thrips palmi*. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. August 24-27, 2010.
- Figuerola, V. 2010. Qualitative analysis of FFS implementation in Cacao at la Masica Atlantida. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- García, A. and I. Zeledón. 2010. Technical and methodological reinforcements in IPM using FFS to INPRHU-SOMOTO, Nicaragua. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Gomez, G. 2010. Agroecological cabbage production in the Valerio community, Jinotega, Nicaragua. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Joya, A. 2010. *Orius insidiosus* for biological control of Thrips. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Lastres, L. 2010. Management of *Paratrioza cockerelli*, a vector of potato zebra chip. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Martínez, L. and Sorto, C. 2010. Reproduction of *Orius insidiosus* under two sources of food. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.

- Melgar, J.C., J.K. Brown, and J.M. Rivera. 2010. Results in the Determination of the Causal Agent of “Stripped Potato” (Zebra Chip) in Honduras. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. August 24-27, 2010.
- Ochoa, E. 2010. Production of natural enemies and entomopathogens at Zamorano, Honduras. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Pilarte, F. and Zeledón, I. 2010. The use of color and smell traps in an IPM program, Nicaragua. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Pitty, A. 2010. Effect of water pH in the efficacy of herbicides. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Raudes, M. 2010. Implementation of low cost irrigation systems at the demonstrative hillside farm at Zamorano, Honduras. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Serrano, D. 2010. Cool tolerance of *Microtheca ochroloma* COLEOPTERA: CRISOMÉLIDAE. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Sierra, D. 2010. Improvement of corn with IPM and Basic Practices Agronomic in Intibucá, Honduras. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Vargas, E. and López, J. 2010. Evaluation of detergent for the control of leaf cutting ant. In Nicaragua. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Vasquez, M. 2010. Effectiveness of basic practices of IPM for crop production. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Vejarano, I. 2010. Adoption analysis of IPM practices promoted by PROMIPAC in Honduras during 2009,” Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Zapata, G. 2010. Development and application of an M&E system for the IPM adoption in Nicaragua. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American Society of Phytopathology-Caribbean Division. Managua, Nicaragua. 24-27 August, 2010.
- Zeledón, I. 2010. Learning experiences with the production of the INTA rojo dry beans cultivar with IPM approach. Proceedings of the XII International Congress of Integrated Pest Management and XX Annual Meeting of the American

### **Philippines**

## Publications/Products List

Heong, K. L., A.A. Lazaro and G.W. Norton. 1999. Comparison of Farmers' Pest Management Perceptions and Practices in Rice and Onions in San Jose, Philippines. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Panaligan, K. B., H. X. Truong, M. D. Duque and H. R. Rapusas. 2010. Development o a Simple Disease Diagnostic for Farmers. Poster presented during the Pest Management Council of the Philippines 41<sup>st</sup> Anniversary and Annual Scientific Conference. March 9-12, 2010. Waterfront Insular Hotel, Lamang, Davao City, Philippines.

Punzal, B. S., G. S. Arida and B. M. Shepard. 2010. Sex Pheromone-Baited Traps for Effective Timing of Interventions against Tomato fruitworm, *Helicoverpa armigera* (Hubner) in Tomato. Poster presented during the Pest Management Council of the Philippines 41<sup>st</sup> Anniversary and Annual Scientific Conference. March 9-12, 2010. Waterfront Insular Hotel, Lamang, Davao City, Philippines.

Rapusas, H. R., Zagado, E. A. Parac, H. M. Biag, E. E. Santiago and J. M. Ramos. Oplan Sagip Sibuyas: An information Campaign on Integrated Pest Management Among Onion Farmers in Pangasinan. Paper presented during the Pest Management Council of the Philippines 41<sup>st</sup> Anniversary and Annual Scientific Conference. March 9-12, 2010. Waterfront Insular Hotel, Lamang, Davao City, Philippines.

Rapusas, H. R., Zagado, E. A. Parac, H. M. Biag, E. E. Santiago and J. M. Ramos. Oplan Sagip Sibuyas: An information Campaign on Integrated Pest Management Among Onion Farmers in Pangasinan. Paper presented during the Pest Management Council of the Philippines 41<sup>st</sup> Anniversary and Annual Scientific Conference. March 9-12, 2010. Waterfront Insular Hotel, Lamang, Davao City, Philippines.

Tjornhom, J. D., G.W. Norton, and V. P. Gapud. Socioeconomic Characteristics and Pesticide Misuse in Philippine Vegetable Production. *American Journal of Agricultural Economics*. 78(December 1996): 1398.

### **South Asia**

Balasubramanian, P. 2008. IPM CRSP interventions for better pest management activities by farmers in South India. South Asia.

Gyawali, B., L. Colavito, G. Norton, S. Miller, E. Rajotte. 2008. Strengthening the supply chain of IPM products in Nepal. South Asia.

### **Southeast Asia**

*Conopomorpha cramerella Snellen* (Gracillaridae: Lepidoptera) on Cacao Plantations in N. Sulawesi, Indonesia Using Degradable Polymer Sleeves. Southeast Asia.

Diversification Schemes for IMP in legume-rice cropping systems in rubber plantations. Southeast Asia.

Gerdeman, B., L. Tanigoshi, R. Garcia, A. Tello and F. Tichbaen. 2008. Progress and Challenges of Predatory Mite Mass Production in Tropical High-Elevations. Southeast Asia.

Hondrade, E., R. Hondrade, J. Duque, S. Elarde, F. Elazegui, C. VeraCruz, C. Mundt, K. Garrett, M. Shepard, G. Carner, and H. Hammig. 2008. Ecologically-based Participatory IPM for Southeast Asia:

Meity, S., A. Nawangsih, Y. Kusumah, A. Rauf, M. Shepard, G. Carner, and M. Hammig. 2008. On-farm Production of *Trichoderma* spp. at Two Biocontrol Agent Posts (Posyanti) in Cianjur-West Java. Southeast Asia.

Opena, J. and A. Baltazar. 2008. Agroecological approaches to managing weeds in eggplant using the staleseedbed technique. Southeast Asia

## Publications/Products List

Rustam, R. X. Pudjiant, N. Maryana, A. Rauf, M. Shepard, and M. Hammig. 2008. Biology of *Opius chromatomyiae* (Hymenoptera: Braconidae), An Increasingly Important Parasitoid of Leafminers in West Java. Southeast Asia.

Sembel, D., M. Meray, C. Rante, R. dien, M. Hammig, G. Carner and M. Shepard. 2008. Field Trials for Staking tomato Crops in North Sulawesi, Indonesia. Southeast Asia.

Sembel, D., M. Meray, C. Rante, R. dien, M. Ratulangi, M. Hammig, G. Carner and M. Shepard. 2008. Farmer field School for Integrated Pest Management on Vegetable Crops in North Sulawesi, Indonesia. Southeast Asia.

Watung, J., D. Sembel, M. Shepard, M. Hammig and G. Carner. 2008. Control of Cacao Pod Borer,

Wienarto, N. R. Dilts, W. Cahyana, E. Kuswara. 2008. IPM Farmer Field Schools and Studies in Vegetables and Citrus in North and West Sumatra Provinces. Southeast Asia.

Yuliani, T., A. Adnan, S. Hendrastuti, A. Rauf, G. Luther, M. Shepard, M. Hammig. 2008. Pest and Pest Management Participatory Appraisal in Agropolitan Area of Cianjur-West Java. Southeast Asia.

### **Tajikistan**

Abstract accepted for oral presentation to Ninth International Conference on Dry Land Development: Sustainable Development in Dry Land-Meeting the Challenge of Global Climate Change, 7-10 November 2008, Alexandria, Egypt.

Nurali S., H. Saidov and D. Landis. 2008. The Evaluation of Flowering Plants to Attract Natural Enemies in Tajikistan. The thesis sent to Scientific Conference dedicated to the 50th Anniversary of Kazakh Institute of plant protection and quarantine which will be held on November 6-8, 2008.

Saidov, A., N. Saidov, B. Nakhshiniev. 2008. Some aspects of climate change on fauna of Tajikistan.

### **Tanzania**

Baseline Survey of Tomato (*Lycopersicon esculentum* Mill) Production in Mvomero District, Morogoro Region in Tanzania. Tanzania-Africa.

Kuria, S.N, Ndegwa, A.N, Waiganjo, M.M, Wepukhulu, S.B, Munene, R.G and Manyeki, L. 2009. Field Evaluation of Advanced Tomato Breeding Lines for Resistance /Tolerance to Bacterial wilt (*Ralstonia solanacearum*). Paper presented during the 9<sup>th</sup> Workshop on sustainable horticultural production in the tropics: Value chains of vegetables for local market, export and processing. Snowcrest Hotel, Arusha-Tanzania (December, 2<sup>nd</sup> -5<sup>th</sup>).

Maerere, A., K. Mwajombe, K. Sibuga, J. Kovach, S. Kyamanywa, M. Erbaugh, and D. Taylor. 2008.

Mtui, H., M. Bennett, A. Maerere, S. Miller, and M. Kleinhenz. 2008. Effect of seed treatments on seedborne bacterial pathogens of tomato (*Lycopersicon esculentum* Mill.) in Tanzania. Tanzania, Africa).

Sibuga, K., J. Bulali, A. Maerere, M. Mwatawala, J. Kovach, S. Kyamanywa, M. Erbaugh, and D. Taylor. 2008. Efficacy of Various Management Practices on Tomato (*Lycopersicon Esculentum* Mill) Pests: A Case Study for Morogoro, Tanzania. Tanzania-Africa.

Waiganjo, M.M.; Kiritu, J.N.; Erbaugh, M; Kovach, J.; Subramanian, S and Aduda, S. 2009. Prospects of Mulching and Some Pest Management Benefits for Smallholder Vegetable Growers in Kenya. Paper presented during the 9<sup>th</sup> Workshop on Sustainable horticultural production in the tropics: Value chains of vegetables for local market, export and processing. Snowcrest Hotel, Arusha-Tanzania (December, 2<sup>nd</sup> -5<sup>th</sup>).



## Uganda

Adikini, S., G. Tusiime, L. Tripathi, F. Beed, S. Kyamanywa, M. Ivey, and S. Miller. PCR detection of *Xanthomonas vasicola* pv. *Musacearum* in invected banana: implications for mat management on wilt control. Uganda Africa.

Amujal, M., A.R. Semana, J.M. Erbaugh and E. Adipala. 2002, Factors affecting adoption of developed integrated pest management technologies by cowpea farmers in eastern Uganda. Forum 5: Programme and Extended Abstracts, Fifth Regional Meeting of the Forum for Agricultural Resource Husbandry Augst 12-16, August 2002 , Entebbe, Uganda For Working Document No 5349354

Bigirwa, G., D. Kyetere, R.C. Pratt and E. Adipala. 1999. Occurrence of Gray Leaf Spot and Resistance of Local Maize Genotypes in Uganda. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

Bigirwa, G., R.C. Pratt, E. Adipala, and P.E. Lipps. 1999. Assessment of Gray leaf spot and stem borer incidence and severity on maize in Uganda. Fourth African Crop Science Conf., Ost. 11-14, 1999 Casablanca, Morocco. page 181 (Abstract)

Bonabana, J. 2010. Benefits of Reducing Pesticides, and Alternative Methods of Controlling Major Pests in Potato Production in Southwestern Uganda. (May, 2010). Informal presentation to potato farmers in Muko, Rubaya and Hamurwa subcounties, Kabale district as part of Millenium Science Initiative project.

Bonabana, J. 2010. Status and Progress of IPM CRSP East Africa Impact Assessment Activities. (2010). Presented at the IPM Annual Technical Committee meeting held in Mbale, Uganda, June 2010.

Bonabana, J. 2010. "How, Why and When to Assess Impact of an Introduced Technology" presented in ABM course 1205, Makerere University. In this presentation, students were exposed to methodologies for impact assessment being used by the IPM team. 20 female and 39 male students attended this presentation.

Erbaugh, J.M. 2009. The Land Grant Concept: Building Linkages Among Teaching, Research, and Extension; and Contributions of Farmer Participation to IPM Research and Development: The IPM CRSP Experience in Uganda. Presented on November 5<sup>th</sup> to the Institute of Agricultural Research and the Department of Crop Protection, Ahmadu Bella University, Zaria, Nigeria.

Erbaugh, J.M., J. Donnermeyer, and M. Amujal. 2007. Assessing the Impact of Farmer Field School Participation on IPM Adoption in Uganda. **Abstract**, Journal of International Agricultural and Extension Education, 14:71.

Gordon, S., M. Bartsch, I. Matthies, H. Gevers, P.E. Lipps and R.C. Pratt. 2001. Genetic Mapping of *Cercospora zea-maydis* Resistance QTLs in Maize. Agronomy Meeting Abstracts: TSNo:C01-pratt133440-P. American Society of Agronomy, Madison, WI. (Abstract)

Gordon, S., P.E. Lipps and R.C. Pratt. Linkage of molecular markers to *Cercospora zea-maydis* resistance QTL in Maize. 43rd Annual Maize Genetics Conf., 13-16 March, Clearwater, FL. Abstracts, p. 110.

Kleinhenz, M. 2010. Grafting and high tunnels in Vegetable production. Presented to 16 M.S. students at Makerere University Faculty of Agriculture, April 7, 2010.

Ochwo-Ssemakula, M., V. Aritua, E. Adipala, R. Edema, P. Redinbaugh, and S. Winter. 2008. Partial characterization of a potyvirus infecting passion fruit in Uganda. Uganda-Africa.

Pratt, R.C. 2002. Use of IPM in the Control of Multiple Diseases of Maize. IPM Conference for Sub-Saharan Africa Book of Abstracts and List of Participants. p. 91-92 (Abstract).

## Publications/Products List

Pratt, R.C., P.E. Lipps, G. Bigirwa, and D. Kyetere. 1999. Germplasm enhancement through cooperative research and breeding using selected tropical and U.S. Corn Belt maize germplasm. Fourth African Crop Science Conf., Oct. 11-14, 1999 Casablanca, Morocco. page 180 (Abstract)

Ssonko, R.N., J. Karungi, S. Kyamanywa, J. Kovach, and J.M. Erbaugh. 2011. Effect of grafting with indigenous rootstocks and cultural practices on infestation of key insect pests and bacterial wilt disease of tomato in Uganda. In book of Abstracts, Makerere University, Directorate of Research and Graduate Training.

Waiganjo, M.M. IPM CRSP Tomato Activities in Kenya. Paper presented during the partners planning and review meeting at Mbale, Uganda in June 20<sup>th</sup> – 23<sup>rd</sup> 2010.

Waiganjo, M.M. Progress of the IPM CRSP Activities in Kenya. Presented during the partners planning and review meeting at Mbale, Uganda in June 20<sup>th</sup> – 23<sup>rd</sup> 2010

Warren, H., G. Epieru, S. Kyamanywa and M. Erbaugh. 1999. Effect of Resistant Variety on Pests of Groundnut. In: Progress in IPM CRSP Research: Proceedings of the Third IPM CRSP Symposium. 15-18 May 1998, Blacksburg, VA, USA.

### West Africa

Brewster, C. K. Badji, M. Noussourou, J. Westwood, D. Mullins. 2008. Understanding the Area-Wide Dynamics of the Whitefly in the West Africa Region. West Africa.

Camara, F., A. Diarra, and D. Mullins. 2008. Integrated approach to control cashew nut trunk borer in Guinea West Africa. West Africa.

Cobb, J., M. Donald, and P. Hipkins. 2008. Pesticide Residue Analysis in West Africa: Quechers Workshop. West Africa.

Hipkins, P., D. Mullins, and J. Cobb. Food Crop Quality Assurance: Pesticide Safety Education in West Africa. West Africa.

Noussourou, M., K. Gamby, A. Nantoume, A. Kollo, B. Gilbertson, R. Foster, A. Diarra, and L. Vaughan. 2008. Integrated Control Strategies for Tomato Viruses in Mali West Africa. West Africa.

## 21. BIBLIOGRAPHIC DATABASES AND MISCELLANEOUS

### General

Yulu, X. 2008. pestMapper: An Internet-based Intelligence Gathering Software for Monitoring and Alerting Pest and Other Biological Species – Version One. International Journal of Pest Management. 2009 (under preparation)

Yulu, X. 2008. Fighting Global Agricultural Pest Issue by Using Information Technology. (NC State News Release. Under preparation)

Yulu, X. 2008. Global Pest Information Sharing. XXIII International Congress of Entomology, 6-12 July, Durban, South Africa.

### Mali

Dunkel, F. 2001. Annotated bibliography on general sources of information in Natural Product Toxicology.

### Philippines

Baltazar, A.M., E.C. Martin, M.C. Casimero, F.V. Bariuan, S.R. Obien, and S.K. DeDatta. 1997. “Major Weeds In Rice-Onion Cropping Systems In San Jose, Nueva Ecija, Philippines”, PhilRice, Nueva Ecija, The Philippines, 1997.

Gapasin, R.M., M.L. Judal, C. Pile, E.B. Gergon, and J. Halbrendt. 1997. “Management of Root-Knot Nematode, *Meloidogyne graminicola* (Golden and Birchfield) In Rice-Onion System”, PhilRice, Nueva Ecija, The Philippines, 1997.

Gapud, V.P., R.C. Suiza, E.C. Martin, E. Rajotte, N.S. Talekar. 1997. “Management Of Eggplant Leafhopper, *Amrasca biguttula* (Ishida) and Shoot and Fruit Borer, *Leucinodes orbonalis* (Guenee) In Rice-Vegetable System”, PhilRice, Nueva Ecija, The Philippines, 1997.

Gergon, E.B. and J.C. Prot, “Reaction Of Different Crops, Weeds, and Onion Varieties To Rice-Root-Knot-Nematode, *Meloidogyne graminicola* (Golden and Birchfield), PhilRice, Nueva Ecija, The Philippines, 1997.

PhilRice. SCIMATE. A bibliographic database initiated by J. Litsinger while in IRRI now donated to PhilRice, complete with software file and the bulk of 60,000 article entries on pest management in rice-based systems available as reprints at PhilRice library.

Rajotte, E. 1997. Bibliographic Citations on File with IPM CRSP Bibliographic Database and Search Service, Penn State U, 130 pp.

## 22. BULLETINS

### General

Aitmatov, M. 2007. Calendar of insect pests development and damage to cabbage

Aitmatov, M. 2007. Calendar of insect pests development and damage to tomato

Aitmatov, M. 2007. Calendar of insect pests development and damage to carrot

Aitmatov, M. et al. 2007. Terminological dictionary of the main diseases, pest of the cotton and vegetable crops was published in Latin, Russian and Tajik.

Aitmatov, M. et al. 2007. Organization and Management of the Farmer Field School on IPM.

Aitmatov, M., N. Saidov et al. 2007. Weeds in Vegetable Crops.

Aitmatov, M., P. Geraedts and N. Saidov. 2007. IPM in Farmers Field School:

- Module 1. Introduction of FFS, 93 pages. (Russian).

- Module 2. Biological Control Methods of Main Insect Pest and Disease of Tomato, 104 pages (Russian).

### Central Asia

Barakanova, N., U. Sultanbekov, P. Geradts, and F. Zalom. 2007. Determination of cucumber pests and diseases. Advisory Training Centre of Rural Advisory Service. Bishkek, Kyrgyzstan, 30 pp. (in Russian)

Barakanova, N., U. Sultanbekov, P. Geradts, and F. Zalom. 2007. Determination of tomato pests and diseases. Advisory Training Centre of Rural Advisory Service. Bishkek, Kyrgyzstan, 30 pp. (in Russian)

Maredia, K. and D. Baributsa. 2007. Integrated Pest Management Forum for Central Asia, Dushanbe Tajikistan. CD of Forum Power Point Presentations.

Murat, A. G. Bird and G. Kaseeva. 2008. Strengthening Student Research Capacity Through Student Field School. Article published in the Bulletin of the Kyrgyz Agrarian University. 6p. March 2008.

Saidov, N. and D. Landis. 2008. Evaluation of Flowering Plants to Attract Natural Enemies in Tajikistan (Russian). Bulletin of the Academy of Science of Tajikistan. *In press*.

Saidov, N., B. Tashpulatova, M. Aitmatov, D. Baributsa and K. Maredia. 2007. Directory of Integrated Pest Management Specialists and Stakeholders in Central Asia.

### **23. SUCCESS STORIES**

Miriam, R. 2008. IPM CRSP Helps Identify and Contain Papaya Mealybug. Virginia Tech.

Success story of Shashie Ayele, IPM CRSP Sponsored Graduate Student in Ethiopia.

