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

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1. ARTICLES PUBLISHED IN REFEREED PUBLICATIONS

**General / Global**

APS Annual Meeting abstract Phytopathology 100(In Press)


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.


Management of eggplant fruit borer. Publication of 1000 color hard copies of the fact sheet on “The eggplant fruit borer, Neoleucinoides elegantalis” (enclosed attachment), prepared by H. Espinoza (Entomologist).


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).


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.


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

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.


**Africa / General**


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.


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).


**Bangladesh**


Bolivia


Cameroon


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).


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).

Chile

East Africa


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).


Ecuador


**Ethiopia**


**Guatemala**


**Honduras**


**India**


Indonesia


IPDN


**Israel**


**Jamaica**


Publications/Products List


Kazakhstan

Publications/Products List

**Kenya**


**Mali**


Publications/Products List


Nigeria


Philippines


Southeast Asia


Tajikistan


Tanzania


Southeast Asia


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.


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.


**United States**

2. ARTICLES PUBLISHED IN NON-REFEREED PUBLICATIONS

Genral


Africa


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)
3. BOOKS/BOOK CHAPTERS

General/Global


Publications/Products List


Albania


**Eastern Europe**


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:


**Ecuador**


**Guatemala**


**Honduras**


India


Philippines


Uganda


Ukraine


4. THESES AND DISSERTATIONS

**General/World**


**Africa**


**Bangladesh**


**Brazil**


**Central America**

Publications/Products List

**East Africa**


**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 Astreacae Family under Quarantine Conditions, Ambo University, MS Thesis.

**Ecuador**


Franklin L., Maiguashca 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.


Ethiopia


Guatemala

Publications/Products List


Zebra Chip for Licenciatura in Biology degree, University del Valle de Guatemala.

**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**


**Indonesia**


**Mali**


**Philippines**


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

Publications/Products List

**South Asia**


**Tanzania**


**Uganda**


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 l support for student and travel support for the supervisor provided by IPM CRSP.


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.)


5. IPM CRSP ANNUAL REPORTS AND HIGHLIGHTS


Publications/Products List


6. EXTENSION PUBLICATIONS/MANUALS

**General**


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.


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**


**Bangladesh**


**Central America**


**Central Asia**


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.


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.


Quíijije, 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.


Guatemala


Jamaica


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.


Grossman, L. 1998. MANUAL FOR USING ARCVIEW.


**Mali**


**Philippines**


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


Tanzania


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;


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;


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.

7. CONFERENCE PROCEEDINGS

**General / Other**


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.

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. 1st 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


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.


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.
f) Kyamanywa, S. Current Status of Integrated Pest Management in Uganda.
h) Tesfayohannes, M. Current Status of IPM in Eritrea.
i) Thiam, A. Pesticide Action Network (PAN).


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


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.


Publications/Products List


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.


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


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


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


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.


Publications/Products List

Africa


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 5th 2009, Nairobi, Kenya.


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


**Albania**

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


**Central America**

Publications/Products List


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.


Ecuador


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. Todirash , D.G. Pfeiffer, T. Tretiakov and V. Focsa)

Management of the Weed Parthenium (Parthenium hysterophorus L.) in Eastern and Southern Africa Using Integrated Cultural and Biological Measures
Publications/Products List


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

**Egypt**


**Guatemala**


**Honduras**


**India**


Press Coverage: 3+1


**Jamaica**


Publications/Products List

**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.


**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


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**


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.


Mali


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.)

Philippines


South Africa


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
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
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

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


**Tajikistan**


Publications/Products List


**Tanzania**


**Uganda**


Publications/Products List


Publications/Products List


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, Uzbekistan pp.54-57. (in Russian)


78
8. IPM CRSP WORKING PAPERS SERIES

General / Other


Albania


Bangladesh


Ecuador


Guatemala


Mali


Philippines


**Tanzania**


**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.


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**


Moldova [http://www.virginiafruit.ento.vt.edu/Albania/MoldovaIndex.html](http://www.virginiafruit.ento.vt.edu/Albania/MoldovaIndex.html)


Ukraine [http://www.virginiafruit.ento.vt.edu/Albania/UkraineIndex.html](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](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/](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](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](http://everest.ento.vt.edu/Fruitfiles/Albania/Albindex.html)

**Jamaica**


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**

10. GERMPLASM RELEASES

Jamaica


11. PAPERS/SEMINARS PRESENTED

General/Global


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


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)


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


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


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


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


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


Ochoa, J. and P. Gallegos. 2007. Open day (Tandapi) to show objectives and aims of the project. Farmers.


Vera, D. and G. Jacone. 2006. Exchanging experiences on plantain farmer to farmers, La Virginia, Quevedo

Vera, D. and G. Jacone. 2006. Exchanging experiences on plantain and farmer organization, San Ramon del Tigrillo, El Carmen


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


**Africa**


**East Africa**

Kyamanywa, S. 2006 IPM Packages for cowpea in East Africa. Presented at the 5th National Integrated Pest Management Symposium, Delivering on a Promise, St.Louis, Missouri, April 4-6, 2006.

**South Africa**

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**

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
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

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”.

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

Effect of Harvest Timing on Olive Fly Infestation and Olive Oil Yields and Quality. Presented at the


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 Iterreg 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.


**Bangladesh**


Publications/Products List


**Benin**


**Cameroon**


**Central Asia**


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.


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.


**China**

Xia, Y. 2006. CIPM Global IPM Database Efforts. China International Invasive Species Forum

**Ecuador**


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


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


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.


Gallegos, P., F. Maiguashca, R. Williams, S. García, 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 the 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 Hipatía 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.


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.


Guatemala


Publications/Products List


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.
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.


Carranza, H. et al. Use of wild crucifers as a trap crop for Plutella xylostella in broccoli (Brassica oleracea var. italic). Presented to the Broccoli Committee of AGEXPRONT.


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


Morales, H. Cultural control and participatory research: the basis for sustainable agriculture. Centro Maya/Universidad de San Carlos de Guatemala, Santa Elena, Peten.


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 42nd Annual Meeting of the
Publications/Products List


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”.


**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**


Indonesia


Jamaica


Edwards, C. 1994. The Role of IPM in Sustainable Agriculture. Nuclear Center, the University of the West Indies, Mona, Jamaica.


Edwards, C.A., Dionne Clarke-Harris, Frank McDonald and Janet Lawrence. 1999. The use of microcosms and terrestial model ecosystems in assessing the effects of pesticides on soil ecosystems. Seminar at CARDI attended by CARDI, MINIAG, RADA and UWI staff.


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). 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.


Kenya


Publications/Products List

Karatina markets. Paper submitted for presentation during the Horticultural Association of Kenya Conference, Pwani University, December 7-10.


Mali


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.


Publications/Products List


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.


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.


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., 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.


annual conference of the Pest Management Council of the Philippines held in Baguio City, Philippines in May 2000.


Publications/Products List


**South Asia**

Poster presented at the 5th International Conference on Biopesticides, New Delhi.

**Southeast Asia**


**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**


**Uganda**


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.


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).


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.


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.


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Publications/Products List


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., 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., 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).


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., 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.


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. 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.


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 (16th - 18th 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.


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.


**Uzbekistan**

12. ELECTRONIC PRESENTATIONS

Indonesia

Aunu, R. 2011. Pertanian berkelanjutan dalam usahatani hortikultura. September 14


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.


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


http://www.ento.vt.edu/Uganda_GIS/
13. POSTERS

General / Other


Publications/Products List


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).


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)


Evaluation of impact of pesticides on Botrytis cinerea under different disease control programs in Albanian greenhouses (J. Tedeschini, H. Paçe 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).


Asia


Bangladesh


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


Eastern and Southern Africa


Ecuador


Ghana


Guatemala

5th Seminar of Integrated Pest Management in Non-Traditional Export Crops, held in Antigua, Guatemala, June 17-19, 2002.


India


**Indonesia**


**Jamaica**


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


Poster presented during the 8th Workshop on Sustainable Horticultural Production in the Tropics held at Masinde Muliro University of Science and Technology (MMUST), KAKAMEGA December 8th-11th 2008. Book of Abstract p.42


Mali


**Philippines**


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. 35th Anniversary and Annual Convention of the Pest Management Council of the Philippines, Amigo Terrace Hotel, Iloilo City, March 16-19, 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. 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


Duca, M.S.V., Alberto, R.T., S.E. Santiago and S.A. Miller. 2003. Integrated management of anthracnose (*Colletotrichum gloeoesporioides*), a disease of onion increasing importance in onion. 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., 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.)


   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.


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. 31st Annual Scientific Convention of the Pest Management Council of the Philippines held on May 3-6, 2000 at Hotel Supreme, Baguio City.


A. 35th Anniversary and Annual Convention of the Pest Management Council of the Philippines, Amigo Terrace Hotel, Iloilo City, March 16-19, 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.


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


Tanzania


Erbaugh, M. Efficacy of various management practices on tomato (Lycopersicon esculentum Mill) pests: A case study for Morogoro, Tanzania


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


Publications/Products List


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.


14. FACT SHEETS

General/World


Biofertilizer Production Vesicular Arbuscular Mychorrhizae (VAM). PhilRice 2009 No 61


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.


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.
Publications/Products List

**East Africa**


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 12th -13th 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 . 2010Brochure Food Security and Climate Change in CAC, 2009, ICARDA –CAC, Tashkent, p. 25-27 (English)

**Ecuador**


**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 obsolete) 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


Centre for Plant Protecion Studies and Centre for Plant Molecular Biology and Biotechnology. 2011. Integrated Pest Management in Tomato. Tamil Nadu Agricultural University.


**Jamaica**


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


Kyrgyzstan


Mali


Nepal

Gyawali, B. K. Fact Sheet for Soap water and Mashed Sweet Gourd Technologies in Nepal. (English).


Gyawali, B. K. Pamphlets on MASHED SWEET GOURD TECHNOLOGY (Nepali).

Gyawali, B. K. Pamphlets on SOAP WATER TECHNOLOGY (Nepali).


Philippines


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).


IPM CRSP. 2000. “Ang Talong” (Management of Bacterial Wilt of Eggplant). Bookmark


Publications/Products List

IPM CRSP/PhilRice. 2000. “Ang Talong” (Fruit and Shoot Borer Management). Bookmark


PhilRice. 2010. Trichoderma sp.: Mabisa Na, Makakalikasan Pa!
PhilRice. 2010. VAM: Vesicular Arbuscular Mycorrhizae
PhilRice. 2010. Vegetable Disease Diagnostic Kit for Farmers

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 Bhendi
- 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**


**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/NaCRRRI/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.


Willson, H. and S. Kyamanywa. 1998. Three fact sheets were produced and distributed to farmers at the Open Days (Uganda site).

Uzbekistan


West Africa


58 booklets on IPM techniques and 30 on the safe use of pesticides have been distributed

15. NEWSLETTERS

General / Other

Publications/Products List

Africia

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,


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).


VI. U.S. AID’s IPM-Collaborative Research Support Program, IPM Approach Benefits Ugandan Tomato Crops

Central Asia


Jamaica


Mali


Philippines


Uganda


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).


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.


**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**


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.

Haussman, 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.


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.


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.


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.

<table>
<thead>
<tr>
<th>Date</th>
<th>No. of farmers attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>29.4.2011</td>
<td>25</td>
</tr>
<tr>
<td>20.6.2011</td>
<td>20</td>
</tr>
<tr>
<td>08.7.2011</td>
<td>28</td>
</tr>
</tbody>
</table>

The list of topics, date of broadcast and the scientists involved in the program are given below:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Date of broadcast</th>
<th>Topic</th>
<th>Scientist</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>12.4.2011</td>
<td>Importance of Integrated Pest Management in vegetable crops</td>
<td>Dr. V. Jayabal Dean, ADAC &amp; RI, Trichy</td>
</tr>
<tr>
<td>2.</td>
<td>19.4.2011</td>
<td>Extension schemes and their benefits in vegetable cultivation</td>
<td>Dr. P. Kalaiselvan Director of Extension Education, TNAU, Coimbatore</td>
</tr>
<tr>
<td>3.</td>
<td>26.4.2011</td>
<td>Latest technologies in vegetable plant protection</td>
<td>Dr. E. I. Jonathan Director, Centre for Plant Protection Studies, TNAU, Coimbatore</td>
</tr>
<tr>
<td>No.</td>
<td>Date</td>
<td>Title</td>
<td>Speaker</td>
</tr>
<tr>
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<td>---------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>4.</td>
<td>03.5.2011</td>
<td>Role of biocontrol agents in vegetable plant protection</td>
<td>Dr. R. Samiyappan&lt;br&gt;Director, Centre for Plant Molecular Biology, TNAU, Coimbatore</td>
</tr>
<tr>
<td>5.</td>
<td>10.5.2011</td>
<td>Integrated pest management in brinjal</td>
<td>Dr. S. Mohankumar&lt;br&gt;Professor (Entomology)&lt;br&gt;Centre for Plant Molecular Biology, TNAU, Coimbatore</td>
</tr>
<tr>
<td>6.</td>
<td>17.5.2011</td>
<td>Insect pests of bhendi and their management</td>
<td>Dr. P. Karuppusamy&lt;br&gt;Professor and Head, Department of Entomology, TNAU, Coimbatore</td>
</tr>
<tr>
<td>7.</td>
<td>24.5.2011</td>
<td>Integrated disease management in brinjal and bhendi</td>
<td>Dr. S. Thiruvudainambi&lt;br&gt;Associate Professor (Plant Pathology)&lt;br&gt;ADAC &amp; RI, Trichy</td>
</tr>
<tr>
<td>8.</td>
<td>31.5.2011</td>
<td>Integrated pest management in cruciferous vegetables</td>
<td>Dr. C. Durairaj&lt;br&gt;Professor (Entomology)&lt;br&gt;Department of Entomology, TNAU, Coimbatore</td>
</tr>
<tr>
<td>9.</td>
<td>07.6.2011</td>
<td>Integrated disease management in cruciferous vegetables</td>
<td>Dr. G. Chandrasekar&lt;br&gt;Professor and Head, Department of Plant Pathology, TNAU, Coimbatore</td>
</tr>
<tr>
<td>10.</td>
<td>14.6.2011</td>
<td>Integrated nematode management in vegetable crops</td>
<td>Dr. S. Ramakrishnan&lt;br&gt;Professor (Nematology)&lt;br&gt;Department of Nematology, TNAU, Coimbatore</td>
</tr>
<tr>
<td>11.</td>
<td>21.6.2011</td>
<td>Integrated pest management in onion and chilli</td>
<td>Dr. G. Gajendran&lt;br&gt;Professor and Head, Department of Crop Protection&lt;br&gt;ADAC &amp; RI, Trichy</td>
</tr>
<tr>
<td>12.</td>
<td>28.6.2011</td>
<td>Integrated disease management in onion and chilli</td>
<td>Dr. D. Dinakaran&lt;br&gt;Professor (Plant Pathology)&lt;br&gt;ADAC &amp; RI, Trichy</td>
</tr>
<tr>
<td>13.</td>
<td>12.7.2011</td>
<td>Integrated pest management in</td>
<td>Dr. N. Raju</td>
</tr>
<tr>
<td>No.</td>
<td>Date</td>
<td>Title</td>
<td>Speaker</td>
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<tr>
<td>14.</td>
<td>19.7.2011</td>
<td>Integrated disease management in tomato</td>
<td>Dr. G. Karthikeyan&lt;br&gt;Associate Professor (Plant Pathology)&lt;br&gt;Department of Plant Pathology,&lt;br&gt;TNAU, Coimbatore</td>
</tr>
<tr>
<td>15.</td>
<td>26.7.2011</td>
<td>Integrated pest management in cucurbits and drumstick</td>
<td>Dr. R. Rajendran&lt;br&gt;Professor (Entomology)&lt;br&gt;ADAC &amp; RI, Trichy</td>
</tr>
<tr>
<td>16.</td>
<td>02.8.2011</td>
<td>Pesticide residues in vegetables and their management</td>
<td>Dr. S. Pasupathy&lt;br&gt;Associate Professor (Entomology)&lt;br&gt;ADAC &amp; RI, Trichy</td>
</tr>
<tr>
<td>17.</td>
<td>09.8.2011</td>
<td>Improved horticultural technologies in vegetable plant protection</td>
<td>Dr. L. Pugalendhi&lt;br&gt;Professor and Head&lt;br&gt;Department of Vegetables&lt;br&gt;TNAU, Coimbatore</td>
</tr>
<tr>
<td>18.</td>
<td>16.8.2011</td>
<td>Role of farm women in vegetable IPM</td>
<td>Dr. K. Uma&lt;br&gt;Associate Professor (Agrl.Economics)&lt;br&gt;Dept. of Agriculture and Rural Management, TNAU, Coimbatore</td>
</tr>
<tr>
<td>19.</td>
<td>23.8.2011</td>
<td>Role of vegetable IPM in economic development of vegetable growers</td>
<td>Dr. K. N. Selvaraj&lt;br&gt;Professor and Head&lt;br&gt;Department of IPR&lt;br&gt;TNAU, Coimbatore</td>
</tr>
<tr>
<td>20.</td>
<td>30.8.2011</td>
<td>Summary of vegetable IPM lessons - compilation</td>
<td>Dr. P. Kalaiselvan&lt;br&gt;Director of Extension Education,&lt;br&gt;TNAU, Coimbatore</td>
</tr>
</tbody>
</table>

**Indonesia**


Publications/Products List


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

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. Sights and sounds of Mali from the eyes of the MSU (IPM CRSP) Externs. 18 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.)

Philippines

CD - FFS Modules on Onion Production and Other Vegetables, Philippines.
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**


**Ecuador**


Barrera, V. 2002. “What is lacking is training in IPM of the potato crop” EL Universo Newspaper, Agricattle page.


**Guatemala**


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**


**Mali**


**Philippines**


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


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.


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


Albania

7 trip reports

Reports in the IPM CRSP Annual Reports: 22

Bangladesh

15 trip reports

Reports in the IPM CRSP Annual Reports: 61


Central Asia


Ecuador

14 trip reports

Reports in the IPM CRSP Annual Reports: 71


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.


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.


Pests of Oriental Vegetables. As part of a production guide, staff of the DPP prepared a 69-page draft of the “Pests 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.

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 berbagai 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


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.


**Kenya**


**Mali**

Reports in the IPM CRSP Annual Reports: 83

48 trip reports


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 Régional des Utilisateurs (CRU) Sotuba du 20 au 22 Avril 2002


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


**Tanzania**


**Uganda**

Reports in the IPM CRSP Annual Reports: 119

23 trip reports


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


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.


**Albania**


Tedeschini, J., E. Isufi, H. Pace, B. Stamo, V. Jovani, B. Huqi, Sh. Shahini, R. Uka, M. Hasani, M. Baci, C. Pitts, D. Pleifler, 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, Victor, 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 visitors participated. 2 Total

Barrera, Victor, 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, Victor, 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 Bolivar. 4 Total

Barrera, Victor, 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, Victor, 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, Victor, 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

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 Martínez 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, Aníbal 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, Aníbal 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. 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. 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

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
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

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

(Zygogramma bicolorata), Under Quarantine Conditions at PPRC, EIAR, Ambo, Ethiopia. The 9th 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
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
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)

CRSP Parthenium Project Partners Workshop 13-16 October 2008, Addis Ababa, Ethiopia. (30 participants
including 3 females)

including 3 females)

Strathie, L. 2008. Rearing and Testing Agents for Biological Control of Parthenium hysterophorus in South
(Including 3 females participants)

Strathie, L. 2009. Promising Prospects for Biological Control of Parthenium hysterophorus. 37th Annual
Biocontrol of Weeds Workshop, Green Fountain Farm, Port Alfred 5-8 May 2009. (80 biocontrol researchers,
implementers, managers, approx. 50% female)

Conservancy, 19 May 2009, Port Edward. (30 members of public, approx. 50% female)

The 4th 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**


**India**


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**


Muniappan, R. 2009. Sequel to the article “IPM includes the use of pesticides”. In: IAPPS Newsletter, Number II, February, 2009.


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 56th Annual Meeting of the Entomological Society of America, Reno, Nevada, Nov. 16-19, 2008.


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. Virginia Tech’s gender program changes lives around the world. Published as a VT press release and in the fall issue of Global University.


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 10th 2000).


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,
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.


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).


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. 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.


Philippines


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.


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**


**Uganda**


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.


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.


Publications/Products List


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.


Graduate workshop held in Makerere University on 16 - 18 August, 2000.


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.


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.

Zolochive 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
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**


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\textsuperscript{th} - 13\textsuperscript{th} April 2010.


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\textsuperscript{th} International Horticulture Congress held in Lisbon, Portugal August 22-27, 2010.


Kaushik, N. 2010. Demonstration and evaluation of IPM modules for management of diseases in vegetable crops in India. Poster presented in 12\textsuperscript{th} IUPAC International Congress of Pesticide Chemistry at University of Melbourne, Australia during 3-8, July, 2010.
Publications/Products List


Publications/Products List


Strathie, L., and A. McConnachie. 2008. Determining distribution as a management tool for control of the invasive plant Parthenium hysteroophorus (Asteraceae) in eastern and southern Africa.


**Bangladesh**


**Central Asia**


**East Africa**


**Eastern Europe**


**Ecuador**

Publications/Products List

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**


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**


**India**


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.


Jamaica


McDonald, S., and S. Tolin. 2008. Survey of farmer practices in two tomato-growing areas of Jamaica. LAC.


Kenya


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 12th -13th April 2010.


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 5th 2009, Nairobi, Kenya.


Harnessing international partnerships to increase research impact held at Leisure Lodge Resort Mombasa, Kenya 5-9th October, 2008. *Book of Abstract p.143-144*


**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.


Unk. IPM CRSP in Honduras: Optimizing the Utilization of Available Resources for Cost-Effective, Efficient and Safe Pest Control in Tropical Environments. LAC.

**Mali**


**Nepal**


**Nicaragua**


Philippines


South Asia

Balasubramanian, P. 2008. IPM CRSP interventions for better pest management activities by farmers in South India. South Asia.


Southeast Asia

Conopomorpha cramerella Snellen (Gracillariidae: Lepidoptera) on Cacao Plantations in N. Sulawesi, Indonesia Using Degradable Polimer Sleeves. Southeast Asia.

Diversification Schemes for IMP in legume-rice cropping systems in rubber plantations. Southeast Asia.


Opena, J. and A. Baltazar. 2008. Agroecological approaches to managing weeds in eggplant using the staleseedbed technique. Southeast Asia
Publications/Products List


**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.


**Tanzania**


Uganda


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 5th to the Institute of Agricultural Research and the Department of Crop Protection, Ahmadu Bella University, Zaria, Nigeria.


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.


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., Ost. 11-14, 1999 Casablanca, Morocco. page 180 (Abstract)


Waiganjo, M.M. Progress of the IPM CRSP Activities in Kenya. Presented during the partners planning and review meeting at Mbale, Uganda in June 20th – 23rd 2010


**West Africa**


21. BIBLIOGRAPHIC DATABASES AND MISCELLANEOUS

**General**


**Mali**

Dunkel, F. 2001. Annotated bibliography on general sources of information in Natural Product Toxicology.

**Philippines**


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.

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., 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**


23. SUCCESS STORIES


Success story of Shashie Ayele, IPM CRSP Sponsored Graduate Student in Ethiopia.