

IPM CRSP Trip Report

Countries Visited: India and Indonesia

Dates of Travel: January 29 to February 17, 2011

Traveler's Name and Affiliations: R. Muniappan, Program Director, IPM CRSP

Purpose of Trip: To attend the South Asia regional program planning meeting in Coimbatore, India and to participating in the initiation of the Associate Award in Indonesia.

Sites Visited: New Delhi and Coimbatore in India and Jakarta, Bogor, Lambang, and Jember in Indonesia.

Description of Activities/Observations:

January 29 to 30: Traveled to New Delhi from Blacksburg.

January 31: Dr. Doug Pfeiffer, Dr. Nutan Kaushik and I visited USAID mission in New Delhi and met with Mr. Garry Robbins, Mr. Dasgupta and Ms. Srivalli Krishnan. We briefed the mission about IPM CRSP activities in India. Mr. Robbins informed us that the mission is in the process of developing a trilateral program between India, U.S. and African countries. This program will mostly be on technology transfer activities and he indicated that the mission will be working closely with Cornell University. In the afternoon, we visited Indian Agricultural Research Institute and met with Drs. O. Bambawale and Ramamurthy.

February 1st: Dr. Nutan Kaushik, Dr. Dough Pfeiffer, Mr. Vivek Sharma and I visited TERI field sites in Utter Pradesh. We met with several farmers who grew tomato and eggplant. All the farmers treat the seeds with *Trichoderma* and *Pseudomonas*. The technology of raising seedlings in trays is being introduced.

February 2nd. In the morning we travelled to Coimbatore and in the evening we attended a farmers meeting in a nearby village where the farmer was adopting IPM technologies for growing okra. Dr. Uma organized a forum with women farmers during this visit.

February 3rd. At 9.00 am the IPM CRSP South Asia group had a general discussion on progress made in the past year. TNAU team expressed its happiness on control of the papaya mealybug by introducing parasitoids from Puerto Rico. Later on there was a farmers' meeting with the All India Radio representatives. Dr. Murugesha Boopathi, Vice Chancellor, TNAU, Dr. De Datta and I participated in this meeting.

In the afternoon we participated in a farmers meeting organized in appreciation of biological control of papaya mealybug in India.

February 4th. *Program planning meeting of the South Asia*. Representatives from TNAU, TERI, Bangladesh and Nepal presented their reports on progress made and plans for this year. There were also presentations from ME and global theme projects.

February 5th. Dr. Doug Pfeifer and I met with the TNAU IPM CRSP team and had a general discussion on improving the program and reporting. TNAU group indicated their willingness to organize a workshop on *Trichoderma* and *Pseudomonas* production and use for the benefit of other IPM CRSP host countries.

February 6th. I travelled to Jakarta from Coimbatore.

February 7th. I met with Drs. Merle Shepard, Gerry Carner and Aunu Rauf in Jakarta. We travelled to Lembang by car.

February 8th. We visited the Indonesian Vegetable Research Institute in Lembang and met with Dr. Ahshol Hasyim, Director of the Institute. He mentioned that the institute is working on potato, onion, chili pepper, eggplant, cucumber, cabbage, and yard long bean. Later the Plant Protection faculty presented their research activities. This institute is producing *Trichoderma* and distributing to the farmers. Virus diseases of peppers and tomato seem to be a major constraint.

February 9th. Drs. Shepard, Carner, Rauf and I traveled to Jember.

February 10th. We visited Indonesian Coffee and Cacao Research Institute which was having its 100th anniversary celebrations on that day. We participated in the inaugural session and the panel discussions. The plant protection faculty of the institute gave us a powerpoint presentation of their research activities. They have developed a kairamone attractant for coffee berry borer. Also, they use *Beauveria bassiana* for control of coffee berry borer and cacao pod borer. Ants are also used for control of cacao pod borer. Other pests of importance were Vascular streak die back of cacao and white stem borer of coffee.

February 11th. We travelled to Bogor from Jember.

February 12th. Sunday. Collected Giant whitefly specimens and examined for parasitoids. Mummies found were individually placed in gelatin capsules for emergence of adult parasitoids.

February 13th. In the morning we visited “Healthy Agricultural Institute” that produces *Trichoderma*, NPV, Neem formulations, and *Heterorhabditis*. In the afternoon, we participated in a farmers meeting on papaya attended by 17 men and 10 women.

February 14th. We visited Bogor Agricultural University. Dr. Carner presented a seminar on “Insect Pathology – Past, Present and Future”. Later we were shown two tons of *Trichoderma* produced by the Plant Pathology Department for shipping to an oil palm company in Irian Jaya. In the afternoon we visited a newly formed company that is producing *Pseudomonas florescens*, *Paenibacillus polymixa*, NPV, organic fertilizer and decomposer mixtures.

February 15th. Holiday (Mohamed’s Birthday). We travelled to Jakarta from Bogor. Collected thrips attacking shoots of *Polyalthia longifolia*.

February 16th. Dr. M. Shepard, Dr. G. Carner, Dr. Eric Benson and I visited USAID mission and met with Dr. Sanath Reddy and briefed him of the IPM CRSP activities in Indonesia. He indicated his willingness to support one or two participants from Indonesian Vegetable Research Institute and Indonesian Cacao and Coffee Research Institute to attend the *Trichoderma* workshop in India.

I left Jakarta at 8.05 pm and reached Blacksburg on February 17th at 9.00 pm.

List of Contact Made:

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