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**IPM Innovation Lab Plant Virus Disease Global Theme  
Workshop on Seed-borne Viruses of Vegetable Crops**

# IPM Innovation Lab- Capacity Building

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Sue Tolin

Virus Global Theme Leader



# Capacity Building

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## FY 2012-13: Long-term training by IPM-CRSP/IL

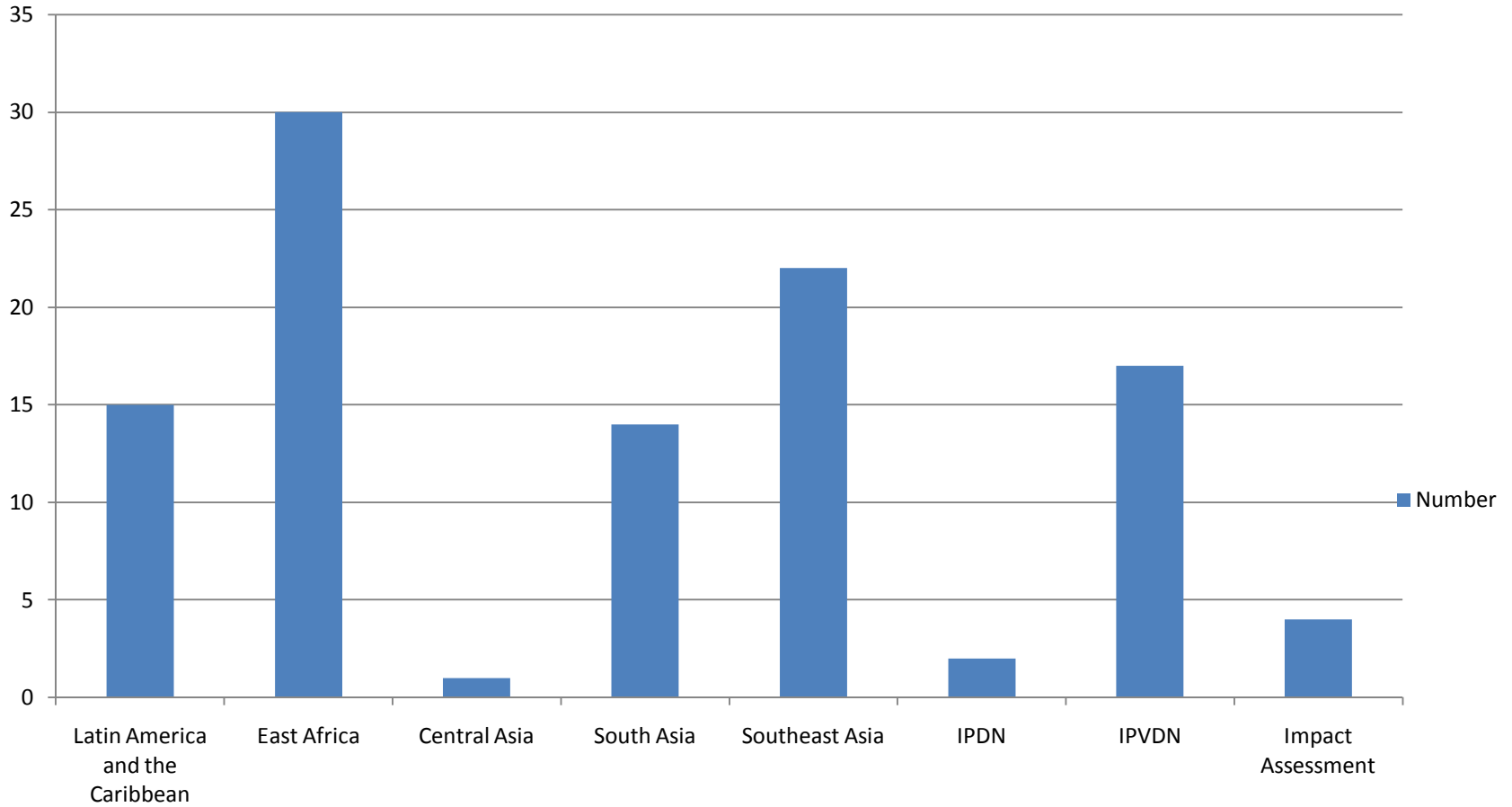
- **93** students
- **61** graduate students (25 men, 36 women)
- **22** PhD students ( 9 men, 13 women)
- **39** MS students (16 men, 23 women)
- **32** BS students (17 men, 15 women)

**at 7 U.S. and 9 host-country universities**



|              | Men      | Doctorate<br>Women | Masters<br>Men | Masters<br>Women | Bachelors<br>Men | Bachelors<br>Women | Total     |
|--------------|----------|--------------------|----------------|------------------|------------------|--------------------|-----------|
| Bangladesh   | 1        | 1                  |                |                  |                  |                    | 2         |
| Ecuador      |          |                    | 1              | 2                | 1                | 1                  | 5         |
| Honduras     |          |                    | 1              |                  | 3                | 3                  | 7         |
| India        | 3        | 5                  | 1              | 4                |                  |                    | 13        |
| Indonesia    |          | 2                  | 1              | 9                | 6                | 8                  | 26        |
| Kenya        |          | 1                  | 1              | 2                |                  | 1                  | 5         |
| Nepal        | 1        |                    |                |                  |                  |                    | 1         |
| Peru         | 1        |                    |                |                  |                  |                    | 1         |
| Taiwan       |          | 1                  |                |                  |                  |                    | 1         |
| Tajikistan   |          | 1                  |                |                  |                  |                    | 1         |
| Tanzania     | 3        |                    | 2              | 1                | 2                |                    | 8         |
| Uganda       |          |                    | 6              | 2                | 4                | 3                  | 15        |
| USA          |          | 2                  | 3              | 3                |                  |                    | 8         |
| <b>Total</b> | <b>9</b> | <b>13</b>          | <b>16</b>      | <b>23</b>        | <b>16</b>        | <b>16</b>          | <b>93</b> |

## Student Focus by Program



# Capacity Building

## Short-Term Training – FY 2012

| Regional programs   | Participants |
|---------------------|--------------|
| “ LAC               | 800          |
| “ East Africa       | 609          |
| “ West Africa       | 4            |
| “ South Asia        | 2608         |
| “ Southeast Asia    | 3,747        |
| “ Central Asia      | 502          |
| Global themes       |              |
| “ Parthenium        | 55           |
| “ IPDN              | 590          |
| “ IPVDN             | 57           |
| “ Impact Assessment | 76           |
| “ Gender            | 336          |
| <b>TOTAL</b>        | <b>9378</b>  |



# International workshop on production of biocontrol agents (*Trichoderma* & *Pseudomonas*)

- “ Participants: Bangladesh, Honduras, India, Indonesia, Kyrgyzstan, and Uzbekistan
- “ Hands on experience on isolation, culture, and mass production of *Trichoderma* and *Pseudomonas*



- “ Event took place in July 2011 at TNAU. USAID India Mission personnel joined the workshop participants in their field visits to the TNAU IPM CRSP research plots and to a private company developing and commercializing microbial biocontrol agents.



# Production and use of *Trichoderma*



*Trichoderma* workshops conducted in India trained scientists from Bangladesh, Ghana, Honduras, Indonesia, Kenya, Kyrgyzstan, Senegal, and Uzbekistan.



# Equity in IPM Innovation Lab







# Farmers field school In Indonesia



## Information dissemination through farmers field schools and mass media



Innovation Lab-sponsored  
International Workshop

# Production and use of biocontrol agent *Trichoderma*

A workshop specifically designed for scientists working in all developing countries.

**Agricare Nepal Pvt Ltd.**  
Bharatpur, Nepal  
June 9-11, 2014



Workshop  
sponsored by USAID and the  
IPM Innovation Lab:

# Fungal Biopesticide Workshop

Agricare Nepal Pvt Ltd.  
Bharatpur, Nepal  
July 28-30, 2014

Accommodations & Registration  
Contact Sulav Paudel: [spaudel@idenepal.org](mailto:spaudel@idenepal.org)



# Workshop on biological control and of *Parthenium hysterophorus*

**Ethiopia, July 13-17, 2014**

## Venues:

Addis Ababa – first 2 days

July 13 – July 15, 8:30 am to 12:00 noon

Nexus Hotel

<http://www.nexusaddis.com/>

Adama – second 2 days

July 15 – July 17, 8:30 am to 12:00 noon

Kereyu Hill Resort Hotel

<http://kereyuhillresorthotel.com/>

## Objective:

The purpose of this four-day workshop is to review the current status of parthenium in the world and discuss management practices that can be used to abate its adverse impacts. The workshop will bring together scientists working on parthenium from Africa

and other parts of the world to share information on the biology and management of this weed. The workshop is designed to facilitate collaboration among researchers both within Ethiopia and internationally.



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# Building Needs in Plant Disease Management

- “ Formal Education
- “ Training of Practitioners
- “ **Research – Diagnostics, particularly in viruses**
  - **Personel expertise, lab facilities, reagent acquisition**
- “ Extension to Growers