

Coordinators

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Local Organizer

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APPLICATION DEADLINE
June 1, 2017
Maximum 15 participants

Registration Fee: \$250
(non-refundable)

Course Fee: \$4,000

Includes instruction/bench fee, materials, transportation to/from Cleveland OH airport, and local travel, meals and lodging. Course fee is non-refundable after July 1, 2017.

Cooperating Departments, Institutions and Agencies

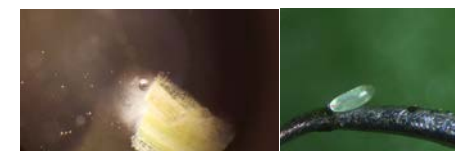
The Ohio State University
Department of Plant Pathology
Department of Entomology
Office of International Programs
in Agriculture
Purdue University
Virginia Tech
USDA Animal and Plant Health
Inspection Service (APHIS)
National Plant Diagnostic Network
International Plant Diagnostic
Network
US Agency for International
Development



Pest and Disease Diagnostics for International Trade and Food Security

**An International Short
Course**

Aug 21-Sep 1, 2017
The Ohio State University
OARDC
Wooster, OH USA



Why Take This Course?

Accurate identification of plant diseases and insect pests is the first step in integrated pest management. It is also a linchpin in international agricultural trade, as freedom from pests and diseases is a pre-requisite to phytosanitary certification. Plant disease and pest diagnosis in both field and laboratory settings requires extensive training and hands-on experience in traditional and modern diagnostic methods.

The Ohio State University will conduct a 2-week, lab-based short course providing intensive training in classical and modern plant disease and insect pest diagnostics for up to 15 participants. Training in data

management, networking, and Sanitary/Phytosanitary (SPS) issues that affect international trade will also be provided.

Instructors experienced in plant disease and pest diagnostics and international trade/SPS issues from The Ohio State University, the National Plant Diagnostic Network, the International Plant Diagnostic Network, other universities, and federal and state agencies will provide hands-on training.

A comprehensive training manual and flash drive containing all training materials and presentations will be provided.

The Course

Introduction to SPS Issues

- International agreements and standards, pest risk assessment, hazard analysis and pest risk management

Plant Disease and Pest

Diagnostic Technology Training

- Hands-on laboratory and distance diagnosis, use of microscopy, imaging, culturing, taxonomic keys, internet resources, determinative tests, serology, end-point and quantitative PCR, isothermal DNA amplification
- Diagnosis of diseases caused by viruses, bacteria, phytoplasmas, fungi, fungal-like pathogens, nematodes

- Identification of the major groups of insect pests
- In depth case studies of critical pathogen and insect pest groups, e.g. *Ralstonia solanacearum*, Lepidoptera: Pyralidae and Noctuidae

Pest Diagnostic Data Management

- Standard forms and databases
- * US PDIS

Train-the-Trainer Program

- Monitoring, sampling/sample submission, art and science of plant disease and pest diagnosis, communication protocols, writing SOPs for high risk pest and pathogen diagnosis