2013 Course Listing & Tentative Dates For

Mosquito Identification, Biology, Ecology, Surveillance and Control

Workshops Include:

Mosquito Biology & Control AE0603CA13 (January 24, – February 21, 2013) 10:00AM – 3:00PM
Mosquito Habitat Recognition AE0604CA13 (April 11, – May 30, 2013) by arrangement
Mosquito Identification AE0605CA13 (June 3, – June 7, 2013) 10:00AM – 3:00PM

Course Descriptions
Training in mosquito biology, mosquito habitat recognition, and mosquito identification will be coordinated through the Office of Continuing Professional Education (OCPE), School of Environmental and Biological Sciences, Rutgers University. These workshops are designed to meet needs of government employees involved in mosquito research, surveillance and abatement. Incorporating a science based approach to mosquito control, stewardship of public health and the environment is a primary focus. Lectures will cover biology, morphology, ecology, and behavior of the Culicidae, along with the most current surveillance and control techniques.

The course will be divided into three separate workshops to accommodate requests from agencies seeking information tailored to a particular discipline. Each workshop will complement information offered in the section preceding it, thereby completing the information necessary for workers employed in mosquito abatement operations. Entomologists, Biologists, Inspectors, Wetlands and Identification Specialists are encouraged to participate. Students can register for any workshop individually should they wish to gain experience in any one discipline. Students wishing to become certified by the New Jersey Agricultural Experiment Station in Mosquito Identification, Biology and Habitat Recognition will need to satisfactorily complete all three sections and pass a certification examination. (The workshops need not be completed in the same year to obtain certification though it is generally recommended.)
The mosquito biology section of the course will be broadly oriented towards basic Culicidology and control methods.

**MBC Workshop Lecture Topics Cover:**
- Mosquito classification
- Mosquito eggs and oviposition
- Larval life processes and metamorphosis
- Adult life processes
- Host preference and the gonotrophic cycle
- Seasonal cycles
- Arbovirus epidemiology
- Larval habitats and classification of life cycles
- Laws mandating mosquito control programs in New Jersey
- Surveillance and control methods utilized to minimize mosquito nuisance and disease transmission

The habitat recognition portion of the course will include field trips to various mosquito larval habitats and resting sites to reinforce the habitat recognition skills, surveillance techniques and control decisions.

**MHR Workshop Five Field Trips Cover:**
- Larval habitat recognition of major nuisance and vector species in NJ
- Larval collection techniques
- Adult habitat recognition of major nuisance and vector species in NJ
- Adult collection methods
- Proper sample collection, labeling and transportation techniques
- Mapping of larval sites and estimating acreage
- Larviciding techniques
- Adulticiding techniques

The laboratory section of the course will stress larval and adult identification skills, as well as techniques critical for delineating nuisance and vector populations.

**MID Workshop Laboratory Sessions Cover:**
- Review and operation of lab equipment
- Larval and adult rearing methods
- Preservation techniques
- Identification of immature and adult mosquitoes

**TO REGISTER:**
**Online:** [http://www.cpe.rutgers.edu/](http://www.cpe.rutgers.edu/) select link for Pest Control then click the Mosquito Control tab

**By Mail:** Send check, money order or purchase order (payable to Rutgers, The State University of NJ) to:
Office of Continuing Professional Education, Cook College, 102 Ryders Lane, New Brunswick, NJ 08901-8519
Attn: Scott C. Crans course coordinator

**By FAX:** (732) 932-8726, 24 hours. Please include a copy of check, money order or PO with fax registrations.
REGISTRATION FORM

Register individually for the workshops

Workshop Cost: $700.00
Class meets Thursdays 10:00 AM - 3:00 PM in the D. M. Jobbins conference room, Headlee Labs

Workshop Cost: $850.00
Class meets one day per week in the field. Field trip schedule will be provided on a weekly basis. Weather permitting five trips are planned, call ahead for 1st meeting time and place and have students come prepared to collect mosquitoes in the field. Directions to all field trips will be provided via e-mail

Workshop Cost: $750.00
Meets every day 10:00 AM - 3:00 PM in the D. M. Jobbins Conference Room, Headlee Labs

There is a discounted price for those who sign up for all three workshops in the same year. Online registrations please use the following promotion codes to obtain the discounted rate: Mosquito Biology and Control MC AE0603; Mosquito Habitat Recognition MC AE0604; Mosquito Identification MC AE0605. Course Cost will be adjusted to $2,100.00

Available microscopes and fiber optic light sources are very limited; students are strongly encouraged to bring in their own work equipment for this class. Our student microscopes are old and magnification abilities less than optimal.

Total Fee Enclosed: $_______________________________
(Fees include collection supplies and handout materials)

Student Name: __________________________________________________________
Employer: _________________________________________________________________
Address: _________________________________________________________________
Phone #: _________________________________________________________________
Cell Phone Number for field trip Coordination:-________________________________
Fax #: ___________________________________________________________________
Email: ___________________________________________________________________