

**The Seventh Arbovirus Surveillance & Mosquito Control Workshop  
Sponsored by AMCD, USDA/CMAVE, and FMCA  
St. Augustine, Florida, March 23-25, 2010  
(20 CEU's)**

**PROGRAM**

**Tuesday (March 23, 2010)**

7:30am Registration..... AMCD Staff

**Moderator: Dr. Rui-De Xue, Director, AMCD, St. Augustine, FL**

8:50am Welcome & Introduction..... **AMCD's Commissioner Chairperson, Mrs. Jeanne Moeller; USDA/CMAVE/MFRU, Research Leader, Dr. Gary Clark, and The President of the FMCA, Mrs. Shelly Redovan**

9:00am **Keynote Address: Control of mosquito-borne diseases: future direction . ... Dr. Ken Linthicum, Center Director, USDA/ARS/CMAVE, Gainesville, FL.**

9:50am Arthropod-borne virus in China.... **Dr. Guo-Dong Liang, Professor and Deputy Director, Institute for Viral Disease Prevention and Control, China CDC, Beijing, China.**

10:20am. Sugar toxic baits for mosquito and sand fly control, **Mr. Amir Galili, Manager, Westham Innovations, Israel and Dr. Gunter Muller, Visiting Professor, The Hebrew University of Jerusalem, Israel**

10:40am. Break

10:55am. How we can counter the bio-terrorist threat? **Mr. Mark Fedders, FBI Supervisory Special Agent, Washington DC.**

11:20am Bioterrorism by pathogen-carrying mosquitoes -- a threat or hoax, **Dr. Williams R. Harvey, Professor, UF Whitney Laboratory, St. Augustine, FL**

11:40am. Overview of the American Mosquito Control Association. **Mr. Doug Carlson, The President of the AMCA**

12:00pm Lunch break (provided by ADAPCO)

**Moderator: Dr. Gary Clark, Research Leader, USDA/CMAVE, Gainesville, FL**

1:00pm. Epidemiology of EEE and surveillance of vector mosquitoes in Florida ... **Dr. Jonathan Day, Professor, University of Florida, FMEL, Vero Beach, FL**

1:20pm. Environmental Stewardship along Florida's Indian River Lagoon. **Doug Carlson, Director, Indian River Mosquito Control District, Vero Beach, FL**

1:40pm. Overview of Florida Mosquito Control Association .....**Mrs. Shelly Redovan, The President of the FMCA & Deputy Director of Lee County Mosquito Control District, FL**

2:00pm. Update about USDA's area wide project about control of *Aedes albopictus*, **Dr. Gary Clark, Research Leader, USDA/ARS/CMAVE, Gainesville, FL.**

2:20pm. Mosquito population surveillance system in China, **Dr. Qiyong Liu, Professor and Director, Department of Vector Biology and Control, Assistant Director, Institute for Communicable Disease prevention and Control, China CDC, Beijing, China**

2:40pm. Break

3:00pm. Update about mosquito control traps and trapping.... **Dr. Dan Kline, Research Entomologist, USDA/CMAVE, Gainesville, FL**

3:20pm Impact of vegetation on ULV spray and barrier effectiveness ... **Dr. Jane Bonds, Associate Professor, FAMU/PHEREC, Panama City, FL**

3:40pm. Influencing factors and improvement for aerial spraying efficacy .. **Mr. Mark Latham, Director, Manatee County Mosquito Control District, FL**

4:00pm. Non-target impacts of mosquito adulticiding, **Miss Alex Chaskopoulou, Department of Entomology & Nematology, Univ. of Florida, Gainesville, FL**

4:20pm. Insecticide resistance in Florida house fly ..... **Dr. Phil Kaufman, Assistant Professor, Department of Entomology & Nematology, UF, Gainesville, FL**

4:40pm. Novel method of controlling flies ... **Mr. Joe Diclaro and Dr. Phil Koehler, Professor, Department of Entomology & Nematology, Univ. of Florida, Gainesville, FL**

**5:00pm End of workshop session**

**5:30-6:00pm. Committee meeting for the 2<sup>nd</sup> International Forum for Surveillance and Control of Mosquitoes and Mosquito-Borne Diseases, Beijing, May 23-27, 2011 (Dr. Tong-Yan Zhao & Dr. Rui-De Xue)**

**6:30pm. Dinner & Lecture (Holidays Inn, Beach Blvd, St. Augustine Beach City. Overview of Aerial Capability in Florida Mosquito Control Organizations Presented by Mr. Mark Latham, Director, Manatee County Mosquito Control District, FL).**

**Wednesday (March 24, 2010)**

**Moderator: Dr. Dan Kline, Research Entomologist, USDA/CMAVE**

8:40am. Mosquito attractants and repellents, **Dr. Uli Bernier, Research Chemist, USDA/CMAVE, Gainesville, FL**

9:00am. Mosquito magnets with attractant study in China ...**Dr. Tong-Yan Zhao, Professor & Director, Beijing Inst of Microbiology and Epidemiology, Beijing, China**

9:20am. Do I stay or do I go? Predicting mosquito behavior in the presence of repellents, insecticides, and attractants .. **Dr. Lee Cohnstaedt, Research Entomologist, USDA/CMAVE, Gainesville, FL**

9:40am. Operational entomology in the Navy Entomology Center of Excellence, **Dr. Craig Stoops, Navy Entomology Center of Excellence, Naval Air Station, Jacksonville, FL**

10:00am Jacksonville Mosquito Control's aerial program and aerial spray in 2009. **Mr. Richard Smith, Superintendent, Jacksonville, FL**

10:20am. Unusual population increase and aerial spraying in St. Johns County in 2009, **Mrs. Kay Gaines, Base Station Supervisor, AMCD, St. Augustine, FL**

10:20am. Break

10:30am. Mosquito larval physiology/molecular biology and possible use for control ..**Dr. Paul Linser, Professor, University of Florida, Whitney Laboratory, St. Augustine, FL**

10:50am. Source reduction and coastal wetland restoration in NE Florida.. **Mr. Ron Brockmeyer, Environmental Scientist, St. Johns Water Management District, Palatka, FL**

11:10am. New innovations in biocontrol of mosquitoes, **Dr. Jimmy Becnel, Research Entomologist, USDA/ARS/CMAVE, Gainesville, FL**

11:30am. Permits for exotic mosquito research in Florida ... **Dr. Peter Jiang, Entomologist, DACS, Tallahassee, FL**

11:50am. Update about EPA/AMCA pesticide environmental stewardship program .. **Mr. Doug Wassmer, Entomologist, Pasco County Mosquito Control District, FL**

12:10pm. Lunch Break (provided by the Central Life)

**Moderator: Dr. Paul Linser, Professor, UF/Whitney Lab, St. Augustine, FL**

1:00pm.Update about DACS' mosquito control programs & regulation. **Mr. Mike Page, Chief, Entomology and Pest Control, DACS, Tallahassee, FL**

1:20pm. Dengue outbreak in Key West and other arbovirus surveillance report in Florida, 2009 ..... **Ms. Elizabeth Radke, Arbovirus Coordinator, DOH, Tallahassee, FL**

1:40pm. Population surveillance and research study in Jacksonville Mosquito Control .....  
..... **Ms. Marah Clark, Entomologist, Jacksonville MCD, FL**

2:00pm. Operation programs in Volusia County, 2009... ..**Mr. Jonas Stewart, Director, Volusia CMC, Daytona Beach, FL**

2:20pm. What was suppressed for mosquito control in St. Johns County, 2009? **Dr. Rui-De Xue, Director, AMCD, St. Augustine, FL**

2:40pm. Overview of Beach Mosquito Control District programs ... **Mr. James Clauson, Director of the Beach Mosquito Control District, Panama City, FL**

3:00pm. Break

3:15pm. Achievements of AMCD's education/public relation program in 2009, **Mr. Adam Holt, Education Specialist, AMCD, St. Augustine, FL**

3:30pm. Enhancing mosquito control awareness in Hernando County, Florida ... **Dr. Guang-Ye Hu, Director, Hernando County Mosquito Control, FL**

3:45pm. Marsh restoration and its impact on mosquito population, **Mr. Andrew Thornton, Field Biologist, AMCD/DEP, St. Augustine, FL**

4:00pm: Blood feeding behaviors and deet repellency in Sindbis virus-infected *Aedes aegypti*, **Whitney Qualls, Biologist, AMCD, St. Augustine, FL**

4:15pm. Impact of lake and aquatic weed control on mosquitoes and midges... **Mr. Stew Metzler, Aquaqgenix / DBI, Jacksonville, FL**

4:30pm. House fly dispersal from and Escherichia coli 0157:H7 prevalence on dairy farms in North Central Florida, **Ms. Roxanne Burrus, USDA/CMAVE, Gainesville, FL**

4:50pm. Update on blue-black cloth targets for stable fly management: size matters, or does it .. **Dr. Jerry Hogsette, Research Entomologist, USDA/CMAVE, Gainesville, FL**

**5:10pm End of session**

**Thursday (March 25, 2010)**

**Moderator: Dr. Harry Zhong, Professor, FAMU/PHEREC, Panama City, Florida**

8:50am. New droplet size collection and calibration for mosquito control operation, **Mr. Bill Reynolds & Mr. Mike Reynolds, Leading Edge Associations, LLC, NC.**

9:05am. Update the new products for mosquito control for 2009 ..... **Mr. Mel Whitson, Regional Manager, Wellmark International, FL**

9:20am UF/IFAS's FMEL extension program ... **Dr. Rox Connelly, Associate Professor, UF/IFAS/FMEL, Vero Beach, FL**

9:35am ADAPCO updated technology in 2009 ..... **Mr. Chris Peterson, ADAPCO, Sanford, FL**

9:50am. Online database for mosquito and disease surveillance..... **Dr. Harry Zhong, Professor, FAMU/PHEREC, Panama, FL.**

10:10am. Break

10: 25am. Natular™ Stewardship Initiatives Over the Past Two Seasons. **Mr. Jim McNelly, Director of Environmental Sciences, Griffith Lizarraga, Field Biologist, Clarke Technical Center, Schaumburg, IL.**

10:40am. Diel activity patterns of major species of mosquitoes and impact of ULV spray in St. Johns County, FL .. **Mr. Mike Smith, Biological Technician, AMCD, St. Augustine, FL**

11:00am. Update about non-target study in the FAMU/HEREC. **Dr. Harry Zhong, Professor, FAMU, PHEREC, Panama, FL**

11:20: DACS's inspection report .... **Mr. Steven Harrison, Environmental Manager, DACS, Tallahassee, FL**

11:40am: Update about MapVison in AMCD's operation ... **Mr. Richard Weaver, Data Manager, AMCD, St. Augustine, FL**

12:00pm. Lunch break (provided by Clarke) & workshop end.

**12:30pm. AMCD open house, facility tour, and public meeting about mosquito control (Board Room). Welcome to attend.**