

Previous Workshops

Permethrin Product Symposium, 9:30am-2:30pm, August 3, 2006

(4 CEU's Credits)

The Program

9:00am **Registration**

9:30am Welcome & Introduction...**Mrs. Barbara Bosanko, Commissioner Chair of the AMCD & Dr. Rui-De Xue, Director of the AMCD, St. Augustine, FL**

9:40am Overview of permethrin and permethrin products**Dr. Rui-De Xue, AMCD, St. Augustine, FL**

10:00am Permethrin re-registration (RED) state.....**Mr. Bill Jany, Clarke Mosquito Control**

10:20am Overview of AquaReslin.....**Mr. Paul Efirid, ADAPCO & Mrs. Jing Zhai, Bayer Environmental Science**

10:40am Overview of AquaKontrol.....**Mr. Blasine Oakeson, UNIVAR**

11:00am Overview of AquaLuer..**Mr. David Sykes, B & G Chemicals & Equipment**

11:20am Permethrin formulation and efficacy.....**Mr. Bill Jany, Clarke Mosquito Control**

11:50am **Lunch provided by AMCD**

12:50pm Insecticide resistance testing..... **Dr. Jack Petersen, FAMU/HEREC**

1:20pm Permethrin variation in ULV truck tanks... .. **Dr. Rui-De Xue, AMCD**

1:30pm Analytical data quality and validation..... **Dr. He Zhong, FAMU/HEREC**

1:40pm Discussion about permethrin product testing protocol for ULV ground application..... **Dr. Abimbola Amoo & Dr. Rui-De Xue, AMCD**

2:30pm **End of the Symposium**

**The 3rd Arbovirus Surveillance and Mosquito Control Workshop,
St. Augustine, Florida, March 22-24, 2006**

The Program

March 22 (Wednesday)

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

Moderator: Dr. Rui-De Xue

9:00am Welcome & Introduction..... **Mrs. Emily Hummel, Commissioner,
AMCD Board of Commissioners & Dr. Rui-De Xue, District Director, AMCD, St. Augustine, FL**

Dr. Gary Clark, Research Leader, USDA/Mosquito & Fly Unit, Gainesville, FL

**Mr. James Clauson, Manager, Mosquito Control Section, Bureau of Entomology & Pest Control,
DACS, Tallahassee, FL**

Mr. Frank Clarke, Clarke Mosquito Control

9:15am **Keynote Address: Integrated Mosquito Management.....Dr. Robert Novak, Professor,
Center for Economic Entomology, Natural History Survey, University of Illinois, IL**

10:00am **Guest Address: Bedbugs, Cockroaches, and African Honey Bees..... Dr. Philip Koehler,
Professor, Department of Entomology & Nematology, University of Florida, Gainesville, FL**

10:30am **Guest Address: Mosquitoes and mosquito-borne disease control in China... Dr. Tong-Yan
Zhao, Director & Professor, Institute of Microbiology and Epidemiology, Beijing, China**

11:00am Break

11:10am Dengue fever: A threat to the Southeastern United States?... **Dr. Gary Clark, Research Leader,
USDA/CMAVE/ Mosquito & Fly Unit, Gainesville, FL**

11:30am What services the AMCA Techniques Advisor can offer mosquito control districts**Mr.
Joseph Colon, AMCA Technical Adviser, Jacksonville, FL**

11:50am Overview of the FMCA..... **Mr. Doug Carlson, The Past President of the FMCA and
Director of Indian River Mosquito Control District, Vero Beach, FL**

12:00pm. Update about methoprene products..... **Mr. Mel Whitson, Wellmark International, FL**

12:10pm Lunch (provided by Wellmark International)

Moderator: Dr. Gary Clark

1:00pm Trypsin modulating Oostatic Factor (TMOF), a potential new mosquito larvicide that synergizes with BTi..... **Dr. Dov. Borovsky, Professor, University of Florida/IFAS/FMEL, Vero Beach, FL**

1:20pm CO2: various source and their usefulness for mosquito surveillance.... **Dr. Dan Kline, Research Entomologist, USDA/ARS/CMAVE, Gainesville, FL**

1:40pm Identification of host odors for use as lures in surveillance trapping, **Dr. Uli. Bernier, Research Chemist, USDA/ARS/CMAVE, Gainesville, FL**

2:00pm Laboratory evaluation of attractants for Culex mosquitoes.....**Dr. Sandy Allan, Research Entomologist, USDA/ARS/CMAVE, Gainesville, FL**

2:20pm Remote sensing based mapping of mosquito production habitats in mangroves of Southeast Queensland, Australia..... **Dr. Pat Dale, Professor, Griffith University, Australia**

2:40pm Contracting aerial application services: experience of the Indian River Mosquito Control District.....**Mr. Doug Carlson, Director, Indian River Mosquito Control District, Vero Beach, FL**

3:00pm Break

3:10pm Mosquito larval control in Africa.....**Dr. Bill Harvey, Professor, University of Florida, Whitney Laboratory, St. Augustine, FL**

3:30pm. Agnique efficacy and its effects on non-target..... **Dr. Harry Zhong, Associate Professor, PHEREC/FAMU, Panama City, FL**

3:50pm. Some things to keep in mind.....**Dr. Larry Hribar, Entomologist, Florida Key Mosquito Control District, Key West, FL**

4:10pm Outreach and public education on mosquito control in Hernando County.....**Dr. Guang-Ye Hu, Director, Hernando County MC, FL**

4:30pm End of session

7:30pm Dinner with lecture at Holiday Inn (Can Excitation Improve Mosquito Adulticide Performance? Presented by Mr. Bill Jany, Director of Research & Development, Clarke Mosquito

Control, Roselle, IL)

March 23 (Thursday)

7:30am Registration.....AMCD staff

Moderator: Dr. Dan. Kline

9:00am Effects of Environmental Factors on the ability of mosquitoes to transmit arboviruses
.....**Dr. Ken Lithicum, Center Director, USDA/ARS/CMAVE, Gainesville, FL**

9:20am Deposition studies on permethrin and resmethrin and their importance in the future of pyrethroids
used in public health..... **Mr. Peter Connelly, Bayer Environmental Science**

9:40am Arbovirus activity and responsible control in several distinct geographies..... **Mr. Jim
McNelly, Clarke Mosquito Control, IL**

10:00am Site-specific, integrated mosquito management in New York City...**Mr. Robert Champion,
Assistant Director, Office for Vector Surveillance and Control, Department of Health, NY**

10:20am Computer model for mosquito-borne disease surveillance..... **Dr. Wei-Dong Gu, Research
Scientist, Natural History Survey, Illinois University, IL**

10:40am Break

10:50am Natural products for mosquito control.....**Dr. Jerry Zhu, Assistant Professor,
Iowa State University, IO**

11:10am America Biophysical Biophysics Corporation, more than a mosquito magnet.....**Dr. Karen
McKenzie, America Biophysical Biophysics Corporation, R.I.**

11:30am Prospects of mosquito larval control by using biotechnology... **Dr. Dmitri Boudko, Assistant
Professor, University of Florida, Whitney Laboratory, St. Augustine, FL**

11:50am Overview of UNIVAR products.....**Mr. Trey English, UNIVAR, Tampa, FL**

12:00pm **Lunch (provided by UNIVAR)**

Moderator: Mrs. Emily Hummel

1:00pm State Arbovirus surveillance report.....**Mrs. Rebecca Shultz, Arbovirus Coordinator, DOH, Tallahassee, FL**

1:20pm St. Johns County Arbovirus surveillance report.....**Dr. Rui-De Xue, Director /Entomologist, AMCD, St. Augustine, FL**

1:40pm Jacksonville arbovirus & vector mosquito surveillance report 2005.....**Ms. Marah Clark, Entomologist, Jacksonville MCD, FL**

2:00pm Arbovirus & mosquito surveillance report from Volusia County.....**Mr. Jonas Stewart, Director, Volusia CMC, Daytona Beach, FL**

2:20pm Arbovirus & mosquito surveillance report from Leon County**Dr. Richard Lobinske, Superintendent, Leon CMC, Tallahassee, FL**

2:40pm Break

2:50pm Florida State mosquito control programs.....**Mr. James Clauson, Environmental Manager, DACS, Tallahassee, FL**

3:10pm. Overview of Chatham County Mosquito Control programs**Dr. Henry Lewandowski, Director, Chatham County Mosquito Control, Savannah, GA**

3:30pm GIS-surveillance mapping: put your program on the map!... **Mr. Alan Carter, Director of Field Operations, Valdosta State University, GA.**

3:50pm Overview of Navy's Disease Vector Ecology and Control Center's programs..... **Dr. Todd Walker, Research Entomologist, DVECC, Jacksonville, FL**

4:10pm End of session

7:30pm Dinner with lecture (Welcome by Mrs. Barbara Bosanko, Chairperson, The AMCD Board of Commissioners. Future Direction and Regulation of DACS's Bureau of Entomology & Pest Control, Presented by Mr. James Clauson) at Holiday Inn (Sponsored by AMCD)

March 24 (Friday)

7:30am Registration.....AMCD staff

Moderator: Mrs. Mary Willis

9:00am Update about ADAPCO's new technology & products.....**Mr. Paul Efirid, ADAPCO**

9:20am Aerial program in Lee CMCD.....**Mr. Wayn Gale, Operation Manager, Lee County Mosquito Control District, Ft. Myers, FL**

9:40am St. Johns County's Aerial application at emergency situation in 2005..... **Mrs. Kay Gaines, Supervisor, AMCD, St. Augustine, FL**

10:00am Break

10:10am Jacksonville mosquito control aerial program.....**Mr. Richard Smith, Director, Jacksonville Mosquito Control Division, Jacksonville, FL**

10:30am. Efficacy of Aquaprene 2.8% sand granules against *Ochlerotatus taeniorhynchus* in small field test plots.....**Mr. Tom Floore, Research Entomologist, PHEREC/FAMU, Panama City, FL**

10:50am Overview of AMCD's education program.....**Mrs. Gina LeBlanc, Education Specialist, AMCD, St. Augustine, FL**

11:10am Mosquito traps and attractants for population surveillance..... **Mrs. Whitney Qualls, Department of Entomology, Auburn University, Alabama**

11:30am **Lunch (provided by ADAPCO)**

Moderator: Dr. Rui-De Xue

12:30pm. A review of new products for 2006.... **Mr. David Sykes, B & G Chemical & Equipment Co.**

12:50pm Howe's new techniques for aerial application..... **Mrs. Nicole Howe-Williams, Howe Enterprises, FL**

1:10pm Acoustic techniques for mosquito larval control and demonstration....**Mr. Herbert Nyberg, New Mountain Innovations, Inc. Niantic, CT**

1:30pm **Concluding Remarks & End of Workshop (Mrs. Willis)**

1:40pm Adjust & Tour of AMCD's facility at Base Station

2:00pm End of the session

**Salt Marsh Mosquito Management Symposium, 9:30am-2:30pm, July 14, 2005,
AMCD, St. Augustine, FL 32080 (4 CEU's Credits)**

The Program

9:30am Welcome & introduction.....Mrs. Emily Hummel, Commissioner Chair

9:40am Attractant-baited traps/targets for *Ochlerotatus taeniorhynchus* population management.. Dr. Dan. Kline, Research Entomologist, USDA/CMAVE, Gainesville, FL

10:10am Dyed food marking of *Ochlerotatus taeniorhynchus*, a novel method for monitoring dispersal.....Dr. C. Welch, Post Doctor, USDA/CMAVE, Gainesville, FL

10:40am Breeding sites & GIS for salt marsh mosquitoes in St. Johns County, FL, Mr. Mike Smith, Supervisor, NW Substation, AMCD, St. Augustine, FL.

11:10am Salt marsh mosquito composition and seasonal activity in St. Johns County, FL... Dr. Rui-De Xue, Director/Entomologist, AMCD, St. Augustine, FL

11:30am Other larvicides for salt marsh mosquito control...Mr. Jim McNelly, Environmental Service Manager, CEMM

11:45am A new formulation of Altosid for salt marsh mosquito control...Mr. Mel Whitson, Entomologist, Wellmark

12:00 Lunch provided by Wellmark

1:00pm Salt marsh mosquito control experience in Indian River Mosquito Control District... Mr. Mike Hudon & Mr. Rich Wilson, Biologists, IRMCD, Vero Beach, FL

1:20pm Salt marsh mosquito control in Jacksonville city.. Mr. Richard Smith, Director, Jacksonville Mosquito Control Division, JAX, FL

1:40pm Salt marsh mosquito control experience in Amelia Island...Mr. James Clauson, Director, Amelia Mosquito Control District, FL

2:00pm Mosquito magnets as barrier treatments against salt marsh mosquitoes in Anastasia Island, FL, Ms. Alex Santoro, Biol. Tech. AMCD, St. Augustine, FL

2:20pm Discussion

2:30pm End

2nd Arbovirus Surveillance and Mosquito Control Workshop, St. Augustine, Florida, March 22-24, 2005

Sponsored by Anastasia Mosquito Control District (Tel. 904/471-3107), USDA/CMAVE/Mosquito & Fly Unit, and the Florida Mosquito Control Association

Visit our web page for registration & hotel information at www.anastasiacmcd.org/education%20nav.htm

The Program

March 22 (Tuesday):

8:00-9:20 am Registration

Moderator: Dr. Rui-De Xue

9:20am Welcome & Introduction.....

Mrs. Emily Hummel, Commissioner Chair , AMCD

Mr. Steve McEvoy, Director, AMCD

Dr. Ken Linthicum, Center Director, USDA/CMAVE

9:30am **Key Address:** Where is mosquito control headed?**Dr. John D. Edman, Professor & Director**, UC, Davis, CA

10:00am Overview of research programs at USDA/Center for Medical, Agricultural & Veterinary Entomology, Gainesville, Florida..... **Dr. Ken Linthicum, Center Director**, USDA/CMAVE, Gainesville, FL

10:30am Dengue vector control through community participation in Thailand..... **Dr. Pat Kittayapong, Associate Professor**, Mahidol University, Bangkok, Thailand

11:00am Research progress of mosquito traps & trapping for population surveillance..... **Dr. Dan Kline, Research Entomologist**, USDA/CMAVE, Gainesville, FL

11:30am Georeferencing pest and vector activity in a mosquito control program **Dr. Don Barnard, Research Entomologist**, USDA, Gainesville, FL

12:00am Lunch Break (free lunch)

Local Press Release:

1. AMCD's Mosquito Control Policy & Strategy Arbovirus Surveillance in St. Johns County, 2004 & 2005: Commissioner Mrs. Beth Bowen, Commissioner Mary Willis, Director Mr. Steve McEvoy, and Dr. Rui-De Xue

2. St. Johns County Department of Health's response for mosquito-borne diseases and pesticide application, Director Mike Towle

3. Enhancing Mosquito Control without Pesticides, AMCA Symposium, Dr. Rui-De Xue & Dr. Dan. Kline

Moderator: Dr. Dan Kline

1:00pm Mosquito attractant research progress..... **Dr. Uli Bernier, Research Chemist,**
USDA/CMAVE, Gainesville, FL

1:15pm An overview of mosquito behavioral work at CMAVE... **Dr. Sandra Allan, Research
Entomologist,** USDA/CMAVE, Gainesville, FL

1:30pm Overview of mosquito control programs in Indian River MCD..... **Mr. Doug Carlson, Director,**
Indian River MCD, Vero Beach, FL

1:45pm Overview of mosquito control programs in Polk County MC Division.. **Ms. Taryn Crepean,**
Manager, Polk County MCD, FL

2:00pm Adaptations for WNV surveillance and control in Chatham County..... **Dr. Henry
Lewandowski, Director,** Chatham County MCD, Savannah, Georgia

2:30pm Overview of DOH's Tampa laboratory's arbovirus programs..... **Dr. Lillian Stark,
Laboratory Director,** DOH, Tampa, FL

3:00pm End

March 23 (Wednesday)

8:30-9:30am **Registration**

Moderator: Mrs. Mary Willis

9:30am Overview of mosquito control program in Lee County MCD..... **Mr. Wayne Gale,
Operation Manager,** Lee County MCD, Ft. Myers, FL

10:00am Navy Entomology and the mission of the Disease Vector Ecology and Control Center,
Jacksonville, FL..... **Dr. Todd Walker, Entomologist,** Jacksonville, FL

10:30am Overview of Insecticide Resistance..... **Dr. David Dame,**
Gainesville, FL

11:00am Overview of mosquito control programs at Volusia County MCD.... **Mr. Jonas Stewart,
Director,** Volusia County MCD, Daytona Beach, FL

11:30am Habitats of container-inhabiting mosquitoes..... **Dr. G. O'Meara, Professor,** UF/FMEL,
Vero Beach, FL

12:00 ADAPCO's new techniques & new products.....**Mr. Derrk Wright**

12:10 Lunch Break (free Lunch)

Moderator: Dr. Rui-De Xue

1:00pm DOH & CDC study about aerial spray for mosquito control in St. Johns County,
2004.....**Dr. Alan Becker, Toxicologist,** DOH, Tallahassee, FL

1:30pm Arbovirus & Florida wild birds.....**Dr. J. F. Day, Professor,** UF/FMEL, Vero
Beach, FL

2:00 pm Nuisance midge management around the world....**Dr. A. Ali, Professor**, UF/IFAS/MFREC, Apopka, FL

2:30pm Jacksonville's arbovirus & mosquito population surveillance, 2004, **Ms. Marah Clark, Entomologist**, Jacksonville Mosquito Control, Jacksonville, FL

3:00pm End

6:30 pm Dinner at Holiday Inn (make your reservation when you register)

March 24 (Thursday)

8:30-9:30am Registration

Moderator: Mrs. Emily Hummel

9:30 am Overview of the research and monitoring initiatives of the Guana Tolomato Matanzas National Estuarine Research Reserve... ..**Dr. Richard Gleeson, Research Coordinator**, GTMNERR, UF/Whitney Laboratory, St. Augustine, FL

10:00 am AMCD's research purpose & project overview.....**Mrs. Beth Bowen, Commissioner**, AMCD, St. Augustine, FL

10:15am Pesticide safety and regulation..... **Mr. Stephen Sickerman, Environmental Manager**, DACS, Panama City, FL

10:30am Florida DACS's hurricane response & decision in 2004..... **Ms. J. Simpson, Environmental Specialist III**, DACS, Tallahassee, FL

11:00am New IGRs against mosquitoes..... **Dr. Robert Everich, Research Leader**, NY

11:30am Insecticides for mosquito control.....**Dr. Graham White, Senior Scientist**, UF, Gainesville, FL

12:00 UNIVAR's product overview..... **Mr. Trey English, Vector Control Specialist**, UNIVAR, Tampa, FL

12:10 Lunch Break (free lunch)

Moderator: Mrs. Beth Bowen

1:00pm Research Progress of Biocontrol of mosquitoes..... **Dr. Jimmy Becnel, Research Entomologist**, USDA/CMAVE, Gainesville, FL

1:30pm Research progress of mosquito Adulticides on non-target organisms.... **Dr. Harry Zhong, Associate Professor**, FAMU, Panama City, FL.

2:00pm Arbovirus surveillance in St. Johns County, FL..... **Alex Santoro, Biol. Tech.** AMCD, St. Augustine, FL

2:15pm Toxic baits and bait stations against adult mosquitoes...**Dr. Rui-De Xue, Entomologist**, AMCD, St. Augustine, FL

2:30pm Update about adulticides-malathion & aquareslin formulation & application... **Mr. John Boone, Supervisor of NW Station**, AMCD, St. Augustine, FL

2:45pm Concluding remarks, **Mrs. Mary Willis, Commissioner**, AMCD, St. Augustine, FL

2:50pm End

MOSQUITO CONTROL AND ARBOVIRUS SURVEILLANCE WORKSHOP

March 23 – 25, 2004

Anastasia Mosquito Control District

500 Old Beach Road / PO Box 1409

St. Augustine, Florida 32085

AMCD Address: AMCD, P.O. Box 1409, 500 Old Beach Road, St. Augustine, FL 32085; Tel. 904/471-3107 (Contact persons: Dr. Rui-De Xue or Melissa Doyle); Fax. 904/471-3189; E-mail: doyleamcd@bellsouth.net

Hotel Information: Holiday Inn (Contact with Celeste at 904/471-2555) on the beachside (A1A), daily rate at \$62 for Anastasia Mosquito Control Workshop. Please make reservation as early as possible if you need, mention Anastasia Mosquito Control to get the discounted rate.

Registration: Deadline for registration for participants is March 19, 2004. The registration fee is \$40 for one day session, and \$120 for 3 day session. CEU credits (5 for one day session) will be awarded for attendance.

THE PROGRAM

Tuesday, March 23, 2004

8:00-10:00am **REGISTRATION**

10:00-10:10am **Introduction**

Mr. Steve McEvoy, Acting Director of the AMCD

Welcome

Mrs. Mary Willis, Commissioner Chair of the AMCD

10:10 –11:00am **Population surveillance techniques**

Dr. Dan Kline, Lead Scientist & Research Entomologist,

U SDA/ARS/CMAVE/Mosquito & Fly Unit, Gainesville, FL

11:00-11:40am **Mosquito attractants & repellents**

Dr. Uli Bernier, Research Chemist

U SDA/ARS/CMAVE/Mosquito & Fly Unit, Gainesville, FL

11:40-12:00 **Discussion** about traps with attractants for population

s urveillance with Dr. Kline & Dr. Bernier

12:00-12:40pm Lunch break (Lunch provides for speakers & guests)

12:40-1:10pm **Mosquito Control in Hernando County**

Dr. Guangye Hu, Director, Hernando Mosquito Control,

Brooksville, FL

1:10-2:00pm **Field testing of traps, attractants, and sentinel chickens**

Ms. Melissa Doyle, Biological Technician, Anastasia Mosquito

Control District

P.O. Box 1409, 500 Old Beach Road, St. Augustine, FL 32085

2:00-2:50pm **Mosquito behaviors related to operational programs**
Dr. Rui-De Xue, Entomologist, Anastasia Mosquito
Control District
P.O. Box 1409, 500 Old Beach Road, St. Augustine, FL 32085

2:50-3:00pm **Discussion**

Wednesday, March 24, 2004

10:00-10:30 am **Interagency Collaboration for Mosquito-borne Disease
Surveillance**
Dr. Terry O'Reilly and Ms. Marah Clark, Dept. of Health,
Duval County, Jacksonville, FL

10:30-11:15 am Malaria outbreak in West Palm Beach
Ms. Jennifer Simpson, Dept. of Agriculture & Consumer
Service, Tallahassee, FL

11:15-12:00pm **Arbovirus Life Cycle: Links in a chain...**
Dr. Doria Bowers, Assistant Professor, Department of Biology,
University of North Florida, Jacksonville, FL

12:00-12:30pm Lunch Break (Lunch provided for speakers & guests)

12:40-1:30pm **Arbovirus surveillance and sentinel chickens**
Mr. James Burgess, Lee County Mosquito Control District, Ft.
Myers, FL

1:30-2:15pm **Arbovirus test techniques**
Mr. Gerardo Medrano, Entomologist, East Flagler Mosquito
Control District, 24 Utility Drive, Palm Cost, FL

2:15-3:00pm **Georgia mosquito & arbovirus surveillance programs**
Dr. Rosmarie Kelly, Medical Entomologist, Dept. of Health,
Atlanta, Georgia

7:00-9:00pm Dinner for speakers & guests

Thursday, March 25, 2004

- 9:30-10:00am **Overview of mosquito control program in Gainesville City,**
Kellie Etherson, Director of Gainesville Mosquito Control
The President of the FMCA
- 10:00-10:30am **Adulticides and adult mosquito control**
Mr. John Boone, Supervisor, Anastasia Mosquito Control
District, St. Augustine, FL
- 10:30-11:00am **Optimized Aerial ULV application**
Dr. James Brown, Director, Jacksonville City Mosquito Control
Division, Jacksonville, FL
- 11:00-11:50am **Biocontrol of mosquitoes**
Dr. Jimmy Becnel, Lead Scientist & Research Entomologist,
USDA/ARS/CMAVE/Mosquito and Fly Unit, Gainesville, FL
- 11:50-12:30pm Lunch break (Zoecon provides lunch for all attendances) &
Altosid Introduction
Mr. Mel Whitson, Sale Representative, Zoecon
- 12:30-1:00pm **Ecology & control of nuisance midges**
Dr. Richard Lobinske, Senior Biological Scientist, **Dr. Arshad
Ali, Professor**, Mid-Florida Research and Education Center,
University of Florida/IFAS, Apopka, FL
- 1:00-1:30pm **Larval control using anti-digestive enzyme compounds**
Dr. Maria Corena, University of Florida, Whitney Laboratory,
St. Augustine, FL
- 1:30-2:00pm **Impacts of Insecticides on nontargets**
Dr. Harry Zhong, Assistant Professor, PHEREC/ FAMU, Panama
City, FL
- 2:00-2:30pm **Marsh Management & Mosquito Control**

Mr. Douglas Carlson, Director, Indian River Mosquito Control

District, Vero Beach, FL 32961

2:30-2:40pm

Conclusion Remarks

Mrs. Emily Hummel, Commissioner Vice Chair of the AMCD

2:40pm

End

**NORTHEASTERN FLORIDA
COLLABORATIVE MEETING FOR
PREVENTION & CONTROL OF WEST NILE
VIRUS**

JULY 23, 2004

Anastasia Mosquito Control District

500 Old Beach Road / PO Box 1409

St. Augustine, Florida 32085

AMCD Address: AMCD, P.O. Box 1409, 500 Old Beach Road, St. Augustine, FL 32085; Tel. 904/471-3107 (Contact persons: Dr. Rui-De (Rudy) Xue or Melissa Doyle); Fax. 904/471-3189; E-mail: doyleamcd@bellsouth.net

Driving Direction: From I-95 (North or South) exit to SR 207 (East), make right turn (to St. Augustine Beach) on SR 312 (east), pass US 1 and big bridge, pass A1A traffic light immediately make right turn. AMCD in the corner besides Eckerd & Atlantic Auto shop.

Registration: The registration is free and CEUs (5 credits) will be awarded for attendance.

THE PROGRAM

- 9:00-9:30am **REGISTRATION**
- 9:30-9:40am **Welcome & introduction**
- Mrs. Mary Willis**, Commissioner Chair of the AMCD
- Mr. John Boone**, NEF Representative of the FMCA board
- 9:40 –10:00am **West Nile surveillance, 2004 update**
- Mrs. Caroline Collins**, Arbovirus Program Specialist, Dept of Health, Tallahassee, FL
- 10:00-10:20 am **Personal protection and repellent application against WNV vectors**
- Dr. Don. Barnard**, Research Entomologist,
U SDA/ARS/CMAVE, Gainesville, FL
- 10:20-10:40 am **Overview of aerial application of mosquito adulticides**
- Dr. James Brown**, Paint Rock River Consulting,
Paint Rock, Alabama
- 10:40-11:00am **St. Johns County’s arbovirus surveillance & vector control**
- Dr. Rui-De Xue**, Entomologist, AMCD
St. Augustine, FL
- 11:00-11:20am **Duval County’s WNV surveillance & vector control**
- Ms. Marah Clark**, Entomologist, JAX Mosquito Control
Division, Jacksonville, FL
- 11:20-11:40am **Flagler County’s WNV surveillance & control**
- Mr. Gerardo Medrano**, Entomologist, East Flagler Mosquito
Control District, Palm Cost, FL
- 11:40-12:00 **Nassau County’s WNV surveillance & Amelia Island**

mosquito control program,

Mr. James Clauson, Director of Amelia Mosquito Control
District, FL

12:00-12:40pm Free lunch for everybody

12:40-1:00pm **Real-time analysis of mosquito population dynamics for the interpretation of Flavivirus transmission to sentinels,**
Dr. Don. Shroyer, Medical Entomologist, Indian River MCD,
Vero Beach, FL

1:00-1:20pm **What kind of help can DACS provide?**

Ms. Jennifer Simpson, Environmental Specialist
Dept. of Agricultural & Consumer Service, Tallahassee, FL

1:20-1:40pm **What kind of help & resource can UF/FMEL provide?**

Dr. Walter Tabachnick, Professor & Director, University of
Florida, IFAS/FMEL, Vero Beach, FL

1:40-2:00pm **FAMU/HEREC research data gaps: Where have we been
and where do we need to go?**

Dr. John Smith, Professor & Director, Florida A & M
University, PHEREC, Panama, FL

2:00-2:20pm **Arbovirus research at UNF: seeking virus for
footprints**

Dr. Doria Bowers, Associate Professor, University of North
Florida, Jacksonville, FL

2:20-2:40pm **The Navy Disease Vector Ecology and Control Center: Civic
responsibilities and capabilities**

Dr. David Claborn, Director, JAX Navy Station, FL

2:40-2:55pm **What kind of help can UF/Whitney laboratory's mosquito
research group provide?**

Dr. Maria Corena, University of Florida, Whitney Laboratory,

St. Augustine, FL

2:55-3:00pm

Conclusion remarks

Mrs. Emily Hummel, Commissioner Vice Chair of the AMCD

Training Schedules:

New Employee Training

June 2, 2005 (Thursday)

10:00am Welcome /Introduction.....Mrs. Emily Hummel, Commissioner Chair

10:05am Mosquito biology (beginning level).. Dr. Rui-De Xue, Director/Entomologist

11:00am Mosquito ID (beginning level).... Ms. Alex Santoro, Biol. Tech.

12:00pm Lunch break

12:30pm Palm pilot training.....Mrs. kay Gaines, VCMS Coordinator

1:30pm Adulcicides & how to spray.....Mr. David Taylor, SW Supervisor

June 3, 2005 (Friday)

10:00am Adult mosquito surveillance (traps & LRC)... Mr. John Boone, NW Supervisor

10:40am Service requests & judgments.....Mr. Jimmy Baer, Base Supervisor

11:20am Arbovirus surveillance methods.....Ms. Alex Santoro

12:00pm Lunch break

12:30pm Mosquito larvae and larval survey.....Mr. Mike Smith, PV Supervisor

1:45pm AMCD's safety issue.....Mr. Richard Weaver, Safety Coordinator

2:15pm AMCD's handbook (major policies & regulation).... Dr. Rui-De Xue, Director

5 attendances for part time & seasonal employees

May 5, 2005 (Thursday)

10:00am Welcome/Introduction.....Dr. Rui-De Xue, Acting Director
10:05am Mosquito biology (beginning level).....Dr. Rui-De Xue
11:00am Mosquito ID (beginning level.....Ms. Alex Santoro, Biol. Tech.
12:00pm Lunch break
12:30pm Mosquito larvae & larval survey.....Mr. Mike Smith, Supervisor
1:30pm Adulticides and how to spray.....Mr. David Taylor, Supervisor

May 6 (Friday)

10:00am Adult mosquito surveillance (traps & LRC)..... Dr. Rui-De Xue
10:40am Service requests & judgments.....Mr. Jimmy Baer, Supervisor
11:20am Arbovirus surveillance methods.....Ms. Alex Santoro
12:00pm Lunch break
12:30pm Palm pilot training.....Mrs. Kay Gaines, VCMS Coordinator
1:45pm AMCD's safety issue.....Mr. Richard Weaver, Safety Coordinator
2:15pm AMCD's handbook (Major policies & regulation).....Dr. Rui-De Xue
4 seasonal employees for the training.

Employee Training Schedule

(February 16-17, 2005, 2 CEU's provided)

Wednesday (2/16, 2005)

9:50-10:00am Introduction & welcome.....Commissioner Chair/ Director
10:00-12:00 Poisonous bites & stings with Maynard Cox.....Mr. M. Cox
12:00-12:30 Lunch break
12:30-1:30pm Using the Florida Retirement System to plan for your retirement.....
Mr. Dan. Grable, Ernst & Young for FRS's Agency, Alabama
1:30-3:00pm Investment planning for everyone.....Mr. Dan Grable

Thursday (2/17, 2005)

10:00-10:30 a.m. Commissioner's overview..... Mrs. M. Willis

- 10:30-11:00 a.m. Overview of UF/IFAS's St. Johns County Extension Programs.....
Mr. T. Donovan
- 11:00-11:30 Update about other kinds of larvicides (BS & Oil)..Mr. J. Boone
- 11:30-11:45 Altosid formulation & application... ..Mr. J. Baer
- 11:45-12:30 Lunch Break
- 12:30-1:00pm Aquareselin formulation & application..... Mr. D. Taylor
- 1:00-1:30pm Does mosquito control affect honey bees?... Dr. R.D. Xue
- 1:30-2:00pm Safety hand book..... Mr. R. Weaver

Employee Training Schedule

(December 7- 9, 2004, 4 CEU's available)

Tuesday & Wednesday (12/7 & 12/8)

8:30am-3:00pm Mosquito Identification (adults & larvae)... J. Simpson, DOACS (Cancelled)

Thursday (12/9, 2004)

10:00-10:30 a.m. Overview of County Health Department's program. Mike Towle, DOH

10:30-11:00 a.m. Overview of Wild life projects at Guana Park....Mike Orlando, DWLF

11:00-11:15 a.m. WNV update.....Dr. Rui-De Xue, AMCD

11:15-11:30am. How to prevent & control mosquito-borne diseases..... Alex Santoro

11:30-12:00 Discussion about sentinel chicken program..... Dr. Rui-De Xue

12:00-12:30 Lunch Break

12:30-1:00 p.m. Malathion formulation & application John Boone

1:00-1:30 p.m. Bti formulation & application.....Mike Smith

1:30-2:30 p.m. VCMS..... Kay Gaines & R. Weaver

Training Schedule for New Employees

(June 22-June 24, 2004)

Tuesday (June 22, 2004)

1:00-1:30 p.m. Welcome and safe issue by Acting Director Steve McEvoy

1:30-1:50 p.m. AMCD history & overview by Commissioner Chair Mary Willis

1:50-2:10 p.m. Survey for the knowledge about mosquito biology by Dr. Rui-De Xue

2:10-2:30 p.m. Mosquito biology (Basic) by Melissa Doyle

Wednesday (June 23, 2004)

1:00-1:30 p.m. Larval habitats & survey by Mr. Mike Smith

1:30-2:00 p.m. Larval control by Mr. Mike Smith

2:00-2:30 p.m. Adulticides by Mr. John Boone

2:30-3:00 p.m. Adult mosquito habits & control by Mr. John Boone

Thursday (June 24, 2004)

1:00-1:30 p.m. Quality service, prevention & personal protection by Mr. Jimmy Baer

1:30-2:00 p.m. Recognize mosquito characters & major species by Melissa Doyle

2:00-2:30 p.m. Surveillance & operation regulation by Dr. Rui-De Xue

Attendees:

2 from Base Station

2 from P.V. Substation

1 from NW Substation

Training Schedule for Senior Employees

(December 9-December 11, 2003, 12 CEU's available)

Tuesday (December 9, 2003)

10:00-10:30 a.m. Welcome and introduction by Director Bob Betts

10:30-11:00 a.m. Survey for the knowledge about mosquito biology by Dr. Rui-De Xue

11:00-11:40 a.m. Morphology & species I.D. by Melissa Doyle

11:40 a.m. Lunch break

12:15-1:30 p.m. Species I.D. practices by Melissa Doyle & Dr. Rui-De Xue

1:30-2:30 p.m. Species I.D. practices by Melissa Doyle & Dr. Rui-De Xue

Wednesday (December 10, 2003)

10:00-10:50 a.m. Larval habitats by Mr. Mike Smith

10:50-11:40 a.m. Larval control by Mr. Mike Smith

11:40-12:15 p.m. Lunch Break

12:15-1:30 p.m. Adulticides by Mr. John Boone

1:30-2:30 p.m. Adult control by Mr. John Boone

Thursday (December 11, 2003)

10:00-10:50 a.m. Pesticide regulation & Safety by Mr. Steve McEvoy

10:50-11:40 a.m. Mosquito prevention & personal protection by Mr. Donnie Helmly

11:40-12:15 p.m. Lunch Break

12:15-1:50 p.m. IPM Principle by Dr. Rui-De Xue

1:50-2:30 p.m. Major species I.D. with field habitats (video show) & training evaluation by Melissa Doyle & Dr. Rui-De Xue

Attendees:

Welcome all field inspectors/sprayers to attend species I.D. class on December 9, 2003

Welcome following employees to attend whole classes: Pat Web, Jacque Bolduc, Milton Griggs, David Taylor, Cathy Hendricks, Chris Newmans, Elaine Scanzani, Paul Whatley, Vince Price, Jess White, Freddy Allen, Steven Solana

Training Schedule for Senior Employees

(November 24-November 26, 2003, 12 CEU's available)

Monday (November 24, 2003)

10:00-10:30 a.m. Welcome and introduction by Director Bob Betts

10:30-11:00 a.m. Survey for the Knowledge about Species I.D. & Control Principle by Dr. Rui-De Xue

11:00-11:40 a.m. IPM Principle by Dr. Rui-De Xue

11:40 a.m. Lunch break

12:15-1:30 p.m. Larval Habitats by Mr. Mike Smith

1:30-2:30 p.m. Larvicides and larval control by Mr. Mike Smith

Tuesday (November 25, 2003)

10:00-10:50 a.m. Adulcicides by Mr. John Boone

10:50-11:40 a.m. Adult mosquito control techniques by Mr. John Boone

11:40-12:15 p.m. Lunch Break

12:15-1:30 p.m. Mosquito prevention & personal protection by Dr. Rui-De Xue

1:30-2:30 p.m. Customer service & communication by Dr. Rui-De Xue

Wednesday (November 26, 2003)

10:00-10:50 a.m. Pesticide regulation by Mr. Steve McEvoy

10:50-11:40 a.m. Pesticide safety and personal protection by Steve McEvoy

11:40-12:15 p.m. Lunch Break

12:15-1:30 p.m. Major species I.D. with field habitats (video show) by Dr. Rui-De Xue

1:30-2:30 p.m. Other Mosquito Control District operation (video show) & training evaluation by Dr. Rui-De Xue

Attendees:

Charles P. Hunter, N.W. Substation

Jeff Tharp, P.V. Substation

James E. Baer, Base Station

Edward T. Jr. Schneider, Base Station

Jacque O. Bolduc, Base Station

Loren L. Smith, Base Station

David E. Strickland, Base Station

David T. Taylor, Base Station (SW area)

Marcia K. Gaines, Base Station

**Training Schedule for Employees Who Prepare for
Examination of PHPC Licenses**

(July 22-24, 2003)

Tuesday (July 22, 2003)

10:00-10:30 a.m. Principles of Pest Control (unit 1) and Florida Laws & Regulations (Unit 12) by Director

Bob Betts

10:30-11:00 a.m. Pesticide Labeling (unit 2) and Formulations (unit 3) by Supervisor John Boone

11:00-11:40 a.m. Pesticide Effects in Environment and Risk (Unit 4, 5, and 6) by Melissa Doyle

11:40 a.m. Lunch break

12:15-2:30 p.m. Chapter & Knowledge Review (unit 1 to 6, and 12) by Rui-De Xue

Wednesday (July 23, 2003)

10:00-10:50 a.m. Personal Protection (unit 7), Handling (unit 8) and Application (unit 9) by John Boone

10:50-11:40 a.m. Applying the Correct Amount (Unit 10), Storage, and Disposal (Unit 11) by John Boone, et al.

11:40-12:15 p.m. Lunch Break

12:15-2:30 a.m. Chapter & Knowledge Review (Unit 7 to 11) by Rui-De Xue

Thursday (July 24, 2003)

10:00-10:50 a.m. Mosquito Biology (page 1-20) by Melissa Doyle

10:50-11:40 a.m. Mosquito Control & Others (page 20-30) by Rui-De Xue

11:40-12:15 p.m. Lunch Break

12:15-2:30 p.m. Public Health Pest Control Review by Rui-De Xue

Attendees:

Lester Davis, P.V. Substation

Mike Mills, P.V. Substation

Richard Weaver, Base Station

Bill Hockla, Base Station

Rui-De Xue, Base Station

Employee Training Schedule

(May 29-June 3, 2003)

Thursday (May 29, 2003)

10-10:15am Welcome & introduction by Bob Betts, Director

10:15-11:30am Mosquito biology, Dr. Rui-De Xue

11:30-12:15 Lunch break

12:15-2:30pm Mosquito biology and video show (field ID), Dr. Rui-De Xue

Friday (May 30, 2003)

10-11:30am Larvicides and larval control, John Boone

11:30-12:15 Lunch break

12:15-1:00pm Mosquito morphology, Melissa Doyle

1:00-2:30pm Identification & video show, Dr. Rui-De Xue

Tuesday (June 3, 2003)

10am-2:30pm Identification of mosquitoes practice, bring in your own mosquitoes from CDC light traps, Dr. Rui-De Xue & Melissa Doyle

Attendees:

Jess White, PV

Vicent Price, PV

Elaine Scanzani, NW

Paul Whatley, NW

Cathy Hendricks, Base

Chris Newman, Base

Steve Solano, SW

Freddie Allen, SW

New Employee Training Schedule

(April 28-May 6, 2003)

Monday (April 28, 2003)

10-10:15 am Welcome and introduction by Director Bob Betts

10:15-11:30am Insect Biology, Melissa Doyle

11:30-12:15 pm Lunch break

12:15-1:00pm Insect Biology (continued), Melissa Doyle

1:00-2:30pm Mosquito Biology, Dr. Rui-De Xue

Tuesday (April 29, 2003)

10-10:30am Benefits presentation by Judy Leonard

10:30-11:30am Mosquito morphology and video show, Dr. Rui-De Xue

11:30-12:15pm Lunch break

12:15-1:00pm Mosquito morphology and video show, Dr. Rui-De Xue

1:00-2:30pm Identification, Dr. Rui-De Xue & Mrs. Melissa Doyle

Tuesday (May 6, 2003)

10-12:00pm Identification of mosquitoes practice, bring your own mosquitoes from CDC light traps.

Attendees:

Lester Davis, P.V.

Mike Mills, PV

Richard Weaver, Base

Bill Hockla, Base

Pat Kendrick, Base

Melissa Doyle, Base

Rui-De Xue, Base