

83rd Annual Meeting

Florida Mosquito Control Association

Program

Crowne Plaza
Jacksonville, FL
November 13-16, 2011



Mosquito control today
A better Florida tomorrow

Previous Award Recipients

MAURICE W. PROVOST MEMORIAL AWARD

Presented in recognition of outstanding contributions to control and/or biology of mosquitoes and other biting flies.

L. Jack Salmela	1987
Erik T. Nielsen	1988
William L. Bidlingmayer	1989
Carlisle B. Rathburn	1990
James S. Haegar	1991
E. John Beidler	1994
John R. Linley (posthumously)	1995
Jorge R. Rey	2001
James W. Robinson	2003
George F. O'Meara	2007

J.Y. PORTER AWARD

Presented to scientists who have made significant contributions to entomology with special emphasis on the abatement of mosquitoes and other arthropods of public health importance.

Flora Mae Wellings	1989
Andrew J. Rogers	1990
Burie W. Clements, Jr.	1991
Donald E. Weidhaas	1994
Elisabeth C. Beck	1996
George F. O'Meara	1999
John A. Mulrennan, Jr.	2000
David A. Dame	2001
James C. Dukes	2002
Jonathan F. Day	2005

FRED H. STUTZ MEMORIAL AWARD

Presented to individuals involved in mosquito abatement or the commercial field who through years of dedication to effective mosquito control, developing procedures or designing or manufacturing equipment, have revolutionized control of mosquitoes and other arthropods of public health importance.

Paul J. Hunt	1994
T. Wayne Miller	1995
James W. Robinson	1996
Donald H. Hogan	2003
William R. Opp	2006
Edsel M. Fussell	2010

MERIT AWARD

Presented to individuals from any field of endeavor for their contributions to promoting the control of disease-transmitting and pestiferous mosquitoes or other arthropods of public health importance, for scientific advancement of the discipline, or for developing or extending the public interest in the control of such mosquitoes or arthropods.

Charlie Morris	1997
Pete Pederson	1998
Richard Baker	1998
Fred Harden	1999
Cari Roth	1999
Joseph P. Ruff	2000
Tom Loyless	2001
Dennis Moore	2001
Edwin W. Irby	2002
E. John Beidler	2002
Shelly Redovan	2003
Kellie Etherson	2003
Mike Greer	2004
Daniel Kline	2004
Carlton Layne	2004
L. Philip Lounibos	2005
George O'Meara	2005
James E. Cilek	2006
Jonas Stewart	2007
Richard F. Darsie, Jr.	2007
Thomas G. Floore	2008
G. Alan Curtis	2008
George Heinlein	2009
Kim Feagley	2009
Neil Wilkinson	2010
Brian Murphy	2010

JAMES ROBINSON MEMORIAL AWARD

Presented to individuals in recognition of their innovation and ingenuity in optimizing the safe and efficient operations of a Florida public health pest control program.

Art Hodous	2005
Sarasota County Mosquito Management Services	
James Mason	2006
Indian River Mosquito Control District	
James Wynn	2008
Anastasia Mosquito Control District	
Wayne Daniels	2009
Pasco County Mosquito Control District	

SHERRIE YARBERRY AWARD

Presented to individuals employed in non-administrative positions by mosquito abatement programs who have demonstrated exemplary performance resulting in enhanced unit efficiency or public recognition of excellence of the parent organization.

Theresa Sewar	1998
Lee County Mosquito Control District	
William Cleghorn	2000
Miami-Dade County Mosquito Control	
Byron Reaves	2001
Indian River Mosquito Control District	
Mike Sherman	2003
Indian River Mosquito Control District	
Ed Hersey	2005
Anastasia Mosquito Control District	
Jack French	2006
Pasco County Mosquito Control District	
Michael A. Nichols	2007
Lee County Mosquito Control District	
Morel Jules	2008
Indian River Mosquito Control District	
Rene Snow	2009
Hernando County Mosquito Control District	



**Silent Auction items may
be dropped off at the
registration desk at any
time Sunday or Monday.**



**FMCA Annual Fall Meeting
Crowne Plaza
Jacksonville, FL
November 13-16, 2011**

SUNDAY - NOVEMBER 13th

- 1:00-4:00 BOARD OF DIRECTOR'S MEETING - Duval A
- 1:00-4:00 SPEAKER READY/STORAGE - Foyer
- 1:00-5:00 COMMITTEE MEETINGS – St. Johns, Crowne
- 1:00-5:00 EXHIBIT SETUP -
- 3:00-6:00 REGISTRATION - Foyer
- 4:00-5:00 FLORIDA MOSQUITO CONTROL
FOUNDATION MEETING - Duval A
- 6:00-8:00 EARLY BIRD RECEPTION - Pool Terrace**

MONDAY MORNING - NOVEMBER 14th

- 7:00-4:00 REGISTRATION - Foyer
- 7:00-4:00 SPEAKER READY/STORAGE - Foyer

**OPENING SESSION
DUVAL A & B**

**Moderator: Roxanne Connelly
FMCA President
Florida Medical Entomology Laboratory
Vero Beach, FL**

- 8:00 - 8:05 OPENING COMMENTS
Roxanne Connelly, FMCA President
- 8:05 - 8:15 WELCOME & INTRODUCTION
Karen Bowling, Deputy Administrative
Officer, Office of the Mayor, Jacksonville, FL.
- 8:15 - 8:35 **M1.** FMCA PRESIDENTIAL ADDRESS.
Roxanne Connelly, Florida Medical
Entomology Laboratory, Vero Beach, FL.
- 8:35 - 8:50 **M2.** A review of Florida's participation at
the AMCA's 13th Annual Washington
Conference. **Douglas Carlson**, Indian River
Mosquito Control District, Vero Beach, FL.

- 8:50 - 9:05 **M3.** FMCAs Tallahassee Day Overview and Current Issues. **Dennis Moore.** Pasco County Mosquito Control District, Odessa, FL.
- 9:05 - 9:20 **M4.** Requirements and Procedures for Application of Florida State Pesticide Experimental Use Permits. **Peter Jiang.** Department of Agriculture and Consumer Services, Tallahassee, FL.
- 9:20 - 9:45 **M5.** AMCA Update. **William Meredith.** AMCA President. Department of Natural Resources and Environmental Control, Dover, DE.
- 9:45 - 10:00 **M6.** DACS Statutory Update. **Mike Page.** Department of Agriculture and Consumer Services, Tallahassee, FL.

10:00 - 10:30 BREAK - DUVAL A & B

EDUCATION, OUTREACH, AND EXTENSION DUVAL A & B

Moderator: Lawrence Hribar
FMCA President-Elect
Florida Keys Mosquito Control District
Marathon, FL

- 10:30 - 10:45 **M7.** Incident commander OSHA Level V - do you need one? **June Johnson.** Citrus County Mosquito Control District, Lecanto, FL.
- 10:45 - 11:00 **M8.** Haiti—post 2010 earthquake: misery, mosquitoes ... and a hot meal makes a difference. **Morel Jules.** Indian River Mosquito Control District, Vero Beach, FL.
- 11:00 - 11:15 **M9.** Assisting a 5th Grade class to use old and new technology to develop their appreciation for mosquito control. **Patrick Morgan,** Indian River Mosquito Control District, Vero Beach, FL, and Rose Brickels, Indian River County School Board, Sebastian FL.

- 11:15 - 11:30 **M10.** A brief history of the Florida Mosquito Control Association short courses. **Jonathan Day**, Roxanne Connelly, and Gregory Ross. Florida Medical Entomology Laboratory, Vero Beach, FL.
- 11:30 - 11:45 **M11.** No stone left unturned: hitting source reduction pay dirt in an obscure Florida Statute. **Diane Richards** and Doug Carlson. Indian River Mosquito Control District, Vero Beach, FL.
- 11:45 - 12:00 **M12.** The Florida Mosquito Control Pilots Association (FMCPA): Purpose, history, and current status! **John Gardner**. Manatee County Mosquito Control District, Palmetto, FL.
- 12:00 - 1:15 LUNCH** - on your own.
- 12:00 - 1:30 DIRECTORS' LUNCHEON**
DuPont/DeSoto
Richard Smith, Directors' Section Chair

Program:

CDR Eric R. Hoffman, MSC USN, Officer in Charge,
 Navy Entomology Center of Excellence,
 Jacksonville, FL.

"Navy Entomology: Celebrating 70 Years of Excellence."



MONDAY AFTERNOON - NOVEMBER 14th**ADULT CONTROL****DUVAL A & B****Moderator: Robert Betts****FMCA Vice-President****Escambia County Mosquito Control****Cantonment, FL**

- 1:15 - 1:30 **M13.** Evaluation of two new truck-mounted ULV machines with Aqualuer[®] sprayed against caged *Culex quinquefasciatus*. **Jessica Phillips**, Whitney Qualls, and Rui-De Xue. Anastasia Mosquito Control District, St. Augustine, FL.
- 1:30- 1:45 **M14.** Field evaluation of a new thermal fogger against *Aedes taeniorhynchus*, northeast Florida.. **Richard Weaver**, Mike Smith, and Rui-De Xue. Anastasia Mosquito Control District, St. Augustine, FL.
- 1:45 - 2:00 **M15.** Best management practice for ground ULV application with permethrin. **Rui-De Xue**, Whitney Qualls, Anastasia Mosquito Control District, St. Augustine, FL; and A.O.J. Amoo, Olabisi Onabanjo University, Nigeria.
- 2:00 - 2:15 **M16.** Rotary trap set-up and operation in controlling adult mosquitoes. **Dale Martin**. Beach Mosquito Control District, Panama City Beach, FL.
- 2:15 - 2:30 **M17.** Trifluoromethylphenyl carboxamides as mosquito adulticides. **Maia Tsikolia**, Ulrich R. Bernier, Monique R. Coy, and James J. Becnel. Center for Medical and Veterinary Entomology, USDA,-ARS, Gainesville, FL.
- 2:30 – 2:45 **M18.** A comparison of three slide widths for a rotating impactor. **Michael Greer**, Wayne Daniels, and Dennis Moore. Pasco County Mosquito Control District, Odessa, FL.
- 2:45 - 3:00 **M19.** Real time mobile weather observations optimizing chemical spray operations. **Tyler Wolf** and Derek Radel. New Mountain Innovations, Old Lyme, CT.
- 3:00 - 3:30 BREAK - DUVAL A & B**

ADULT & LARVAL CONTROL
DUVAL A & B
Moderator: Robert Betts
FMCA Vice-President
Escambia County Mosquito Control
Cantonment, FL

- 3:30 - 3:45 **M20.** Mosquito repellent efficiency using a module-based membrane *in vitro* screening. **Natasha Elejalde** and Ulrich Bernier. Center for Medical and Veterinary Entomology, USDA,-ARS, Gainesville, FL.
- 3:45 - 4:00 **M21.** Field evaluation of FourStar™ microbial briquets. **James Clauson** and Dale Martin. Beach Mosquito Control District, Panama City Beach, FL.
- 4:00 - 4:15 **M22.** Mechanisms of mosquito and midge larvae and pupae mortality induced by Acoustic Larvicide® treatments. **Herb Nyberg.** New Mountain Innovations, Old Lyme, CT.
- 4:15 - 4:30 **M23.** Acoustic Larvicide® vernal pond operational results against mosquito and midge larvae. **Derek Radel** and Herbert Nyberg. New Mountain Innovations, Old Lyme, CT.
- 4:30 - 4:45 **M24.** Outdoor trough studies of spinosad. **Jack Petersen.** Rutgers University, New Brunswick, NJ.
- 4:45 - 5:00 **M25.** Assessment of esterase gene expression as a risk marker for insecticide resistance in Florida *Culex nigripalpus* (Diptera: Culicidae). **Dongyoung Shin** and Chelsea Smartt. Florida Medical Entomology Laboratory, Vero Beach, FL.
- 5:00 - 5:10 **M26.** Old index reporting for the digital age. **Ralph DePalma.** Florida Keys Mosquito Control District, Key West, FL.
- 5:10 - 5:20 **M27.** Learning more about aerial ULV applications using DropVision® fluorescence and Tinopal® OB. **Jeff Stivers.** Collier Mosquito Control District, Naples, FL.
- 5:20 - 5:30 **M28.** Duet® dual-action adulticide aerial performance on post-flood mosquito super broods in western Kentucky. **Andy Lima.** Clarke Mosquito Control, Manassas, VA.

5:30 ADJOURN

6:00 - 7:30 PRESIDENT'S RECEPTION
POOL TERRACE

Cash bar and appetizers

Silent Auction Preview

TUESDAY MORNING – NOVEMBER 15TH

7:00-4:00 REGISTRATION - Foyer

7:00-4:00 SPEAKER READY/STORAGE - Foyer

**GENERAL SESSION I
DUVAL A & B**

Moderator: Lawrence Hribar

FMCA President-Elect

**Florida Keys Mosquito Control District
Marathon, FL**

8:00 - 8:25 **T1.** Founding Mothers: Women and the origins of the anti-mosquito crusade in Florida. **Gordon Patterson.** Florida Institute of Technology, Melbourne, FL.

8:25 - 8:40 **T2.** Tracking the work of mosquito control: being effective and efficient in the control of mosquitoes in Volusia County. **Bruce Morgan.** Volusia County Mosquito Control, New Smyrna Beach, FL.

8:40 - 8:55 **T3.** Salt marsh mosquito production from inland citrus-processing operations. **Bruce Peery** and John Plate. Indian River Mosquito Control District, Vero Beach, FL.

8:55 – 9:50 **T4.** SPECIAL PRESENTATION BY THE PRESIDENT. **Roxanne Connelly.** Florida Medical Entomology Laboratory, Vero Beach, FL.

9:50 - 10:05 **FMCA Business Meeting**
Roxanne Connelly, FMCA President

10:05 - 10:30 **BREAK - DUVAL A & B**

TUESDAY MORNING – NOVEMBER 15TH**GENERAL SESSION II****DUVAL A & B****Moderator: Andrea Leal****Florida Keys Mosquito Control District
Key West, FL**

- 10:30 - 10:45 **T5.** Widespread aerial application of VectoBac[®] WDG to control larval *Aedes aegypti* in Key West, FL. **Andrea Leal.** Florida Keys Mosquito Control District, Key West, FL.
- 10:45 - 11:00 **T6.** Upcoming trial using RIDL[®] to control *Aedes aegypti* in Key West. **Derric Nimmo,** Oxitec Ltd., Oxford, UK; Gary Clarke, Center for Medical and Veterinary Entomology, USDA, -ARS, Gainesville, FL; and Andrea Leal, Florida Keys Mosquito Control District, Key West, FL.
- 11:00 - 11:15 **T7.** GeoPro[™] Data Center—cloud services where and when you need it. **Derek Wright.** ADAPCO, Inc., Sanford, FL.
- 11:15 - 11:30 **T8.** Assessment of the competitive ability of a genetically modified (RIDL[®]) line of *Aedes aegypti* compared to its unmodified counterpart. **Irka Bargielowski,** Florida Medical Entomology Laboratory, Vero Beach, FL; Luke Alphey, Oxitec Ltd., Oxford, UK; and Jacob Koella, Imperial College London, Ascot, UK.
- 11:30 - 12:00 **T9.** Global progress against mosquito-borne diseases. **Graham White.** Center for Medical and Veterinary Entomology, USDA -ARS, Gainesville, FL.
- 12:00 - 1:15 LUNCH – on your own.**



COMMISSIONER'S CONCURRENT SESSION**DuPont/DeSoto****Stephen Smith, Commissioners' Section Chair****Florida Keys Mosquito Control District****Key West, FL**

12:00 - 12:45 Lunch & Election of new officers for Commissioners' Section

12:45 - 1:30 Program:**Elsa Potts, PE.** Chief, Bureau of Water Facilities Regulation,
Florida Department of Environmental Protection
Tallahassee, FL.

"Florida's generic pesticide permit - a status update."

TUESDAY AFTERNOON - NOVEMBER 15th**BIOLOGY OF MOSQUITOES I****DUVAL A & B****Moderator: Jeffrey Stivers****Collier Mosquito Control District****Naples, FL**1:15 - 1:30 **T10**, Mosquito control and beekeepers.
Jamie Ellis. University of Florida,
Gainesville, FL.1:30 - 1:45 **T11.** Meteorological and entomological
correlates in the Florida Keys. **Lawrence
Hribar.** Florida Keys Mosquito Control
District, Marathon, FL.1:45 - 2:00 **T12.** Altered behavioral responses of *Aedes
aegypti* (Diptera: Culicidae) to chemical-
based and plant-based insect repellants
following dissemination of Sindbis virus.
Whitney Qualls. Anastasia Mosquito
Control District, St. Augustine, FL.2:00 - 2:15 **T13.** Early population surveillance of *Aedes
albopictus* by ovitraps. **Mike Smith** and
Rui-De Xue. Anastasia Mosquito Control
District, St. Augustine, FL.2:15 - 2:30 **T14.** Environmental factors facilitating the
spread of *Culex coronator* into peninsular
Florida. **George O'Meara.** Florida Medical
Entomology Laboratory, Vero Beach, FL.**2:30 - 3:00 BREAK - DUVAL A & B**

TUESDAY AFTERNOON - NOVEMBER 15th**BIOLOGY OF MOSQUITOES II****DUVAL A & B**

Moderator: Jeffrey Stivers
Collier Mosquito Control District
Naples, FL

- 3:00 - 3:15 **T15.** Integrating effects of competition in mosquito larvae on arbovirus transmission. **Cynthia Lord.** Florida Medical Entomology Laboratory, Vero Beach, FL.
- 3:15 - 3:30 **T16.** Weather and landscape factors associated with adult mosquito abundance in southwestern Georgia, USA. **Eva Buckner,** Florida Medical Entomology Laboratory, Vero Beach, FL; and Mark Blackmore, Valdosta State University, Valdosta, GA.
- 3:30 - 3:45 **T17.** Is *Buddleja davidii*, the Butterfly Bush, also the mosquito bush? **Daniel Kline,** Eric Rohrig, and Peter Teal, Center for Medical and Veterinary Entomology, USDA,-ARS, Gainesville, FL.
- 3:45 - 4:00 **T18.** Temporal silencing of two *Culex pipiens quinquefasciatus* (Diptera: Culicidae) mosquito genes: an update. **Chelsea Smartt** and Sheri Anderson. Florida Medical Entomology Laboratory, Vero Beach, FL.
- 4:00 - 4:15 **T19.** Florida's frog-biting mosquitoes: field observations and biology. **Erik Blosser** and Phil Lounibos. Florida Medical Entomology Laboratory, Vero Beach, FL.
- 4:15 - 4:30 **T20.** Albert Freeman Africanus King, MD: Scientist/Iconoclast. **Joseph Conlon.** American Mosquito Control Association, Fleming Island, FL.
- 4:30 - 4:45 **T21.** Detection of broadly distributed sodium channel alleles characteristic of insecticide resistance in *Culex pipiens* Complex mosquitoes in China. **Zhongming Wang,** Chun-xiao Li, and Tongyan Zhao. Beijing Institution of Microbiology and Epidemiology, Beijing, China.

- 4:45 - 5:00 **T22.** Field evaluation of the next generation of BG Sentinel™ trap, the Biogents Mosquitito™. **John Smith**, Eric Cope, and Jimmy Walsh. Florida State University, Panama City, FL.
- 5:00 - 5:10 **T23.** Efficacy evaluation: aerial applications of Altosid® 5% to control area-wide populations of *Aedes aegypti* and *Aedes albopictus*. **Chris Lesser**. Manatee County Mosquito Control District, Palmetto, FL.
- 5:10 - 5:20 **T24.** Operational application of the "Prokopack" aspirator in Volusia County. **Jim McNelly**. Volusia County Mosquito Control, New Smyrna Beach, FL.
- 5:20 - 5:30 **T25.** Temporal and storage effects on characteristics of ULV droplets on Teflon®-coated slides. **Tony Hughes**, Muhammad Farooq, and Aaron Lloyd. Navy Entomology Center of Excellence, Jacksonville, FL.
- 5:30 ADJOURN**
- 6:00 - 7:30 ATTITUDE ADJUSTMENT
SILENT AUCTION
DUVAL BALLROOM**
- 7:30 - 9:00 AWARDS BANQUET
DUVAL BALLROOM**

Awards will be presented during dessert

FMCA Awards

Presented by Eric Schreiber
FMCA Awards Committee Chair

FMCA Presidential Citation

Presented by Roxanne Connelly
FMCA President

FMCF Scholarship

Presented by Roxanne Connelly
FMCF Scholarship Committee Chair



WEDNESDAY MORNING - NOVEMBER 16th

7:00-12:00 REGISTRATION - Foyer

7:00-12:00 SPEAKER READY/STORAGE - Foyer

**MOSQUITO-BORNE DISEASES I
DUVAL A & B**

Moderator: Donald Shroyer
Indian River Mosquito Control District
Vero Beach, FL

8:00 - 8:15 **W1.** Looking for malaria in Jacksonville, 2010. **Marah Clark.** Jacksonville Mosquito Control Division, Jacksonville, FL.

8:15 - 8:30 **W2.** Impact of West Nile virus infection and environmental temperature on longevity of *Culex pipiens quinquefasciatus*. **Barry Alto,** Stephanie Richards, and Cynthia Lord. Florida Medical Entomology Laboratory, Vero Beach, FL.

8:30 - 8:45 **W3.** Incidence of West Nile virus in north-eastern Florida. **Vincy Samuel,** Angela Morgan, and Saad Zaheer. Duval County Health Department, Jacksonville, FL.

8:45 - 9:00 **W4.** Analysis of North American Breeding Bird Survey data and integration into the Florida Medical Entomology Laboratory arboviral epidemic risk models. **Gregory Ross,** Jonathan Day, and Roxanne Connelly. Florida Medical Entomology Laboratory, Vero Beach, FL.

9:00- 9:15 **W5.** Origin of Dengue virus from mosquitoes in Key West, Florida, 2010. **Sharon Isern,** Amanda Graham, Florida Gulf Coast University, Ft. Myers, FL; and Catherine Pruszynski, Florida Keys Mosquito Control District, Key West,, FL.

9:15 - 9:30 **W6.** Feeding position increases blood-feeding success of recalcitrant mosquitoes. **Zoe Lyski,** Jason Saredy, and Doria Bowers. University of North Florida, Jacksonville, FL.

9:30 - 9:45 **W7.** West Nile virus: surveillance in Jacksonville. **Marah Clark.** Jacksonville Mosquito Control Division, Jacksonville, FL.

9:45 - 10:00 **W8.** Operational response to human case reports of West Nile virus in Jacksonville, Florida during 2011. **Richard Smith.** Jacksonville Mosquito Control Division, Jacksonville, FL.

10:00 - 10:30 BREAK - DUVAL A & B

MOSQUITO-BORNE DISEASES II DUVAL A & B

Moderator: Donald Shroyer
Indian River Mosquito Control District
Vero Beach, FL

10:30 - 10:45 **W9.** Dengue ecology in South America: relevance to Florida? **L. Philip Lounibos,** Florida Medical Entomology Laboratory, Vero Beach, FL; **Harish Padmanabha,** Yale University, New Haven, CT; and **Jorge Rey,** Florida Medical Entomology Laboratory, Vero Beach, FL.

10:45 - 11:00 **W10.** Florida and dengue: an assessment of what we can learn from dengue transmission that occurred in Florida during 2011. **Walter Tabachnick.** Florida Medical Entomology Laboratory, Vero Beach, FL.

11:00 - 11:15 **W11.** Having up-to-date laboratory support, a key to successful disease surveillance. **James Burgess.** Lee County Mosquito Control District, Ft. Myers, FL.

11:15 - 11:30 **W12.** Effect of La Crosse virus infection on life history traits of native *Aedes triseriatus* and invasive *Aedes albopictus*. **Barry Alto,** Florida Medical Entomology Laboratory, Vero Beach, FL; and **Ephantus Muturi,** Illinois. Natural History Survey, Champaign, IL.

11:30 - 11:45 **W13.** When to pull the trigger ... dealing with the inherent tardiness of sentinel chicken surveillance. **Donald Shroyer.** Indian River Mosquito Control District, Vero Beach, FL.



11:45 – 12:05 **FMCA Business Meeting and
Installation of New Officers**
Roxanne Connelly, FMCA President

12:05 **ADJOURN**

12:15 **FMCA Board of Directors Meeting**
MAYPORT or KINGSLEY/Hecksher
Lawrence Hribar, FMCA President



Florida Mosquito Control Association Past Presidents

<u>Yr</u>	<u>President</u>	<u>Meeting City</u>
1922	Dr. Joseph Y. Porter (D) Florida's First State Health Officer	Daytona Beach
1923	Dr. Joseph Y. Porter (D)	Bartow
1924	George W. Clements (D) Mosquito Representative of Polk County	Cocoa Beach
1926	Vida L. MacDonell (D) President, FL Federation of Women's Clubs, instrumental in establishing FAMA	St. Augustine
1927	George W. Simmons, Jr. (D) Chief Sanitary Engineer of State Board of Health	Hollywood
1928	W.E.A. Wyman (D) Head of St. Petersburg Anti-Mosquito League, 1923	Jacksonville
1929	William I. Fee (D) St. Lucie MCD Board Member	Ft. Pierce
1930	William I. Fee (D)	Sarasota
1931	William J. Burns (D) Mosquito Representataive of Sarasota County (Delegate to 1929 FAMA meeting)	Perry
1932	Alex MacWilliams (D) Charter Board Member - Indian River MCD	Clearwater
1936	George W. Simmons, Jr. (D) see 1927	Orlando
1937	Alex MacWilliams (D) see 1932	Tampa
1938	Fred H. Stutz (D) Director Dade County Mosquito Control	Jacksonville
1939	M.J. Mackler (D) Col. (Ret.) USPHS Asst. Health Officer, Tampa	Daytona Beach
1940	W.V. King (D) Entomologist - USDA Principal Author: King, Bradley & McNeal <i>Mosquitoes of the Southeast US</i>	West Palm Beach

1942	Norman G. Platts (D) WPA Sandfly Research Project Director, St. Lucie Co. Sanitary District	Tampa
1946	H. Duke Peters (D) Director, MC - Jacksonville Health Dept.	West Palm Beach
1947	David B. Lee (D) Chief, Bureau of Sanitary Engineering State Board of Health	St. Petersburg
1948	Claude Strickland (D) Sanitarian, Superintendent MC Pinellas Co. Health Department	Ft. Pierce
1949	Dr. J.A. Mulrennan, Sr. (D) Chief, Malaria Control in War Areas Director, Office of Entomology State Board of Health & Dept. HRS	Mount Dora
1950	Edwin L. Seabrook (D) Director, Palm Beach Co. MC	Ft. Myers
1951	Samuel A. Harper (D) Director, Brevard Co. MC	Key West
1952	John M. Hirst (D) Lt. Crd. (Ret.) US Navy Malaria Control Unit	Jacksonville
1953	Samuel Minnich (D) Director, East Volusia Co MC	Daytona Beach
1954	J. Melton Williams (D) Director, Sarasota Co MC	Naples
1955	Dr. Maurice W. Provost (D) First Director FMEL	Panama City
1956	William W. Warner (D) Director, Monroe Co. MC	Ft. Pierce
1957	Mark W. Witham (D) Director, Martin Co. MC	Miami Beach
1958	Robert L. Kemp (D) Director, Manatee Co. MC	Clearwater
1959	Robert E. Barnett Director, Anastasia Island MCD	Pensacola
1960	Henty B. Crowell, Jr. Director, Hillsborough Co. MC	Tampa

1961	James S. Haeger Entomologist, FMEL	Key West
1962	Nina Branch Entomologist, FMEL	Silver Springs
1963	T. Wainwright Miller, Jr. Engineer, State Board of Health Director, St. Lucie Co. Sanitary District Director, Lee County MCD	Jacksonville
1964	E. John Beidler Entomologist, State Board of Health Director, Indian River MCD UF Distinguished Alumnus	St. Augustine
1965	A. Nelson Davis, Jr. (D) Director, Monroe County MCD EPA Director, Broward Co. MC	Tampa
1966	James H. Heidt Director, Dade Co. MC	Daytona Beach
1967	Andrew J. Rogers Director, Panama City Lab Director, Office of Entomology, DHRS	Panama City Beach
1968	L. Jack Salmela Director, Brevard Co. MC	Naples
1969	Paul J. Hunt (D) Head, Pest Control, State Board of Health Director, East Volusia MCD	Winter Park
1970	Claude D. Souder, Jr. (D) Director, Broward Co. MC	Ft. Lauderdale
1971	John B. O'Neil Representative, American Cyanamid	Reddington Beach
1972	Frank L. Wilson Florida Dept. of Agriculture Entomologist, State Board of Health Director, Polk Co. MC	Miami Beach
1973	Ernest A. Philen (D) Engineer, Office of Entomology	Panama City
1974	James D. Gorman Director, Hillsborough Co. MC	Key West
1975	Brandt G. Watson Director, Collier MCD	Ft. Myers

- 1976 William Dryden (D) Longboat Key
Commissioner, Lee County MCD
- 1977 Lawrence M. Rhodes Atlantic Beach
Anastasia Island MCD
Director, Manatee Co. MCD
- 1978 Elisabeth C. Beck Lake Buena Vista
Entomologist, Office of Entomology
Executive Director, FMCA
- 1979 Herbert J. Friedman Tampa
President, Southern Mill Creek Products
- 1980 Dr. Carlisle B. Rathburn, Jr. Ft. Walton Beach
Research Entomologist WFARL, Panama City
- 1981 Norman E. Thomas Ft. Lauderdale
Entomologist, WFARL, Panama City
Entomologist, Polk Co. MC
Director, Sarasota Co. MC
Resource Recovery, Alachua County
Alachua County MC
- 1982 Lester E. Scherer Port St. Lucie
Director, Martin Co. MC
- 1983 Dan F. Boyd (D) Lake Buena Vista
Southern Mill Creek Products
LECO/Adapco/Danco Products
- 1984 Dr. John A. Mulrennan, Jr. Key West
Entomologist, USN
Director, Office of Entomology
Chief, Bureau of Entomology and Pest Control, DACS
- 1985 Dr. Donald E. Weidhaas (D) Sarasota
Director, USDA, Insects Affecting
Man & Animals Laboratory
- 1986 James W. Robinson (D) Jacksonville
Director, Pasco Co. MCD
- 1987 Burie W. Clements, Jr. Palm Beach
Director, WFARL, Panama City
- 1988 Dr. Ray E. Parsons Pensacola
US Army Medical Service Corps
Entomologist, Polk County MC
Director, Sarasota County MC
- 1989 William R. Opp Orlando
Engineer, DER
Engineering, HRS Office of Entomology
Director, Lee County MCD

1990	Frank D.S. Evans FMEL Director, St. Lucie County MCD	Ocala
1991	J. Clarke Hudson (D) Representative, Chevron/Valent	Clearwater
1992	Dr. T. Oscar Fultz Asst. Director, Indian River MCD Director, Polk County MC Director, Chatham Co. Georgia MC	Cocoa Beach
1993	George J. Wichterman Entomologist, Lee County MCD	Ft. Myers
1994	Dr. Richard H. Baker Director, FMEL, University of Florida	Destin
1995	Robert V. Ward Director, Charlotte County MC Manager, Polk County MC	Key West
1996	W. Gene Baker Director, Leon County MC	Kissimmee
1997	G. Alan Curtis Research Entomologist, Indian River MCD	St. Augustine
1998	Dr. David Dame Entomologist, USDA Consultant, Entomological Services	Clearwater
1999	Joseph Ruff Entomologist, JAMSRL, HRS Director, Dog Fly Control Program, DACS	Daytona Beach
2000	Jonas Stewart Director, East Volusia MCD	Panama City Beach
2001	Edward C. Hunter Director, Beach MCD	Ft. Myers
2002	Mark Latham Director, Manatee Co. MCD	Amelia Island
2003	Dr. George O'Meara Professor, FMEL, University of Florida	Miami
2004	Kellie Etherson Director, Gainesville MC Executive Director, FMCA	Lake Buena Vista
2005	Douglas Carlson Director, Indian River MCD	Duck Key

2006	Edsel Fussell Director, Florida Keys MCD Administrator, Mosquito Control - DACS	Hutchinson Island
2007	William Reynolds Adapco, Inc. LEA Team	Jacksonville
2008	Dr. Frank Van Essen Director, Collier MCD	Panama City Beach
2009	Dennis Moore Director, Pasco County MCD	Tampa
2010	Shelly Redovan Deputy Director, Lee County MCD	Duck Key

2011 Government Sustaining Members

Amelia Island Mosquito Control District
Anastasia Mosquito Control District
Bay County Mosquito Control
Buckhead Ridge Mosquito Control
Charlotte County Environmental Services
Citrus County Mosquito Control District
Clay County Mosquito Control
Collier Mosquito Control District
Columbiana County Mosquito Control
East Flagler Mosquito Control District
East Volusia Mosquito Control District
Escambia County Mosquito Management
Florida Keys Mosquito Control District
Fort Myers Beach Mosquito Control
Franklin County Mosquito Control
Gulf County Mosquito Control
Hillsborough County Mosquito Control
Indian River Mosquito Control District
Jacksonville Mosquito Control
Lake County Mosquito & Aquatic Plant Management
Lee County Mosquito Control District
Manatee County Mosquito Control District
Moorehaven Mosquito Control District
Okaloosa County Mosquito Control District
Palm Beach County Mosquito Control
Pasco County Mosquito Control District
Pinellas County Mosquito Control
Polk County Environmental Services
Putnam County Mosquito Control
Saint Lucie County Mosquito Control District
Santa Rosa County Mosquito Control
South Walton County Mosquito Control District
Sumter County Mosquito Control
Volusia County Mosquito Control District
Walton County Mosquito Control

2011 Committee Chairs

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Arbovirus Surveillance - Jon Day

Awards - Eric Schreiber

Buzz Words Newsletter - Roxanne Connelly

Bylaws - Bob Betts

Commissioner's Section - Steve Smith

Directors' Section - Richard Smith

Dodd Short Courses - Roxanne Connelly, Sue Bartlett,
& Flo Jones

Education Coordination - Larry Hribar

Exhibits - Jim Burgess

Fall Program - Larry Hribar

Finance - Doug Carlson

Florida Mosquito Control Handbook - Roxanne Connelly

Historical - Roxanne Connelly & Gordon Patterson

IT User's Group - Nancy Iannotti & Ralph DePalma

Legislative - Doug Carlson & Dennis Moore

Local Arrangements - Roxanne Connelly &

Shelly Redovan

Membership - Shelly Redovan

Nominating - Shelly Redovan

NPDES - Jeff Stivers

Personnel Exchange - FMCA Executive Committee

Pesticide Application - Jonathan Hornby

Public Information - Adrian Salinas

Research Advisory - Don Shroyer

Resolutions - Shelly Redovan

Silent Auction - Shelly Redovan

Site Selection - Shelly Redovan

Technical Bulletins - Jim Cilek

Technology & Audiovisual - Gregg Ross

Wing Beats Magazine - Stephen Sickerman

2010-2011 Officers

Roxanne Connelly - President, Vero Beach, FL

Larry Hribar - President-Elect, Marathon, FL

Bob Betts - Vice President, Cantonment, FL

Shelly Redovan - Immediate Past President, Ft. Myers, FL

Shelly Redovan

Executive Director

Post Office Box 61598

Ft. Myers, FL 33906-1598

Regional Representatives

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Lynn Haven, FL

Northeast Region

Rui-de Xue

Anastasia MCD

Southwest Region

Mike Mahler

Polk County MC

Southeast Region

Judy Avril

Indian River MCD

Member-at-Large

Jack Petersen

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Industry

Tom Wells

ADAPCO

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Richard Smith

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Florida Keys MCD

FMCA Sustaining Industry Members

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Sanford, Florida

American Longray Company

San Francisco, California

AMVAC

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B2E Microbial

Sag Harbor, New York

BVA

Wixom, Missouri

Central Life Sciences

Schaumburg, Illinois

Clarke Mosquito Control Products, Inc.

Roselle, Illinois

Dynamic Aviation

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Leading Edge Associates

Waynesville, North Carolina

London Fog, Inc.

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Univar USA, Inc.

Kirkland, Washington

Valent Biosciences

Libertyville, Illinois

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