MONDAY MORNING

OPENING SESSION
Grandville Ballroom
Moderator: Bob Betts
FMCA President

8:00 - 8:05 Call to Order & Announcements
Bob Betts. FMCA President

8:05 - 8:15 Welcome to Cape Coral
Dane Eagle. Florida House of Representatives, District 77, Cape Coral, FL.

8:15 - 8:45 M01. FMCA PRESIDENTIAL ADDRESS.
Bob Betts. Director, Escambia County Mosquito Control.

8:45 - 9:15 M02. FMCA 85th Anniversary Keynote Speaker: A brief history of dengue virus.
Scott Michael. Professor of Biology, Florida Gulf Coast University, Fort Myers, FL.

9:15 - 9:45 M03. FMCA 85th Anniversary Keynote Speaker: Advances in dengue research.
Sharon Isern. Professor of Biology, Florida Gulf Coast University, Fort Myers, FL.

9:45 - 10:00 M04. The future of AMCA and public health vector control.
Roxanne Connelly. AMCA President. Florida Medical Entomology Laboratory, Vero Beach, FL.

10:00 - 10:30 BREAK - Rosen Ballroom
GENERAL SESSION
Grandville Ballroom
Moderator: Neil Wilkinson
FMCA President-elect
Florida Gulf Coast University

10:30 - 11:00  M05. Dengue in Florida: 1922 and 1934.
Gordon Patterson. Florida Institute of Technology, Melbourne, FL.

11:00 - 11:15  M06. Florida’s participation at the AMCA’s 15th Annual Washington Conference and current Federal issues.
Doug Carlson. Indian River Mosquito Control District, Vero Beach, FL.

11:15 - 11:30  M07. Legislative update.

11:30 - 11:45  M08. DACS Regulatory Update for 2013.
Michael Page. Department of Agriculture and Consumer Services, Tallahassee, FL.

11:45 - 12:00  M09. Far from bored on the board of directors for FMCA.
Judy Avril. Indian River Mosquito Control District, Vero Beach, FL.

12:00 - 1:30  M10. Mosquitoes of the Southeastern United States.
Nathan Burkett-Cadena. University of South Florida, Tampa, FL.

12:00 - 1:30  LUNCH - on your own.

12:00 - 1:30  DIRECTORS’ LUNCHEON
Mariner Room
Richard Smith, Directors’ Section Chair

Overview of the Lee County Mosquito Control District

T. Wayne Gale, Director, Lee County Mosquito Control District, Lehigh Acres, FL.
MONDAY AFTERNOON

ADULT CONTROL
Grandville Ballroom
Moderator: Sue Bartlett
FMCA Vice-president
Pinellas County

1:30 - 1:40  M11. Laboratory evaluation of DEET, Picaridin, and Citronella oil against mega mosquitoes *Psorophora howardii*.
Jodi Scott and Rui-De Xue. Anastasia MCD, St. Augustine, FL.

Kay Gaines and Rui-De Xue. Anastasia MCD, St. Augustine, FL.

Derrick Nimmo, Andrew McKemey, and Camilla Beech. Oxitec Ltd.,

Adriane Tambasco. Florida Keys MCD, Key Largo, FL.

2:15 - 2:30  M15. Mini-Bidlies: Pasco County Mosquito Control District’s continued use of
Bidlingmayer suction traps for adult mosquito surveillance.
Aaron Lloyd. Pasco, County MCD, Odessa, FL.

2:30 – 2:45  M16. Efficacy of nocturnal aerial adulticide applications on *Aedes aegypti* populations.
Christopher Lesser and Mark Latham. Manatee County MCD. Palmetto, FL.

2:45 - 3:00  M17. Head lice control: implications for mosquito control.
John Beidler. Indian River MCD, Vero Beach, FL.

3:00 - 3:30  BREAK - Rosen Ballroom
MONDAY AFTERNOON

ADULT & LARVAL CONTROL
Grandville Ballroom
Moderator: Larry Hribar
FMCA Past President
Florida Keys Mosquito Control District

3:30 - 3:45  M18. A record of changes in mosquito species and distribution in Florida.
Peter Jiang. Florida Department of Agriculture and Consumer Services, Tallahassee, FL.

3:45 - 4:00  M19. Non target organisms and mosquitoes: What’s flying and when?
Lawrence Hribar. Florida Keys MCD, Marathon, FL.

4:00 - 4:10  M20. Transgenerational effects of parental larval nutrition on offspring life histories, immunity, and susceptibility to dengue-1 virus in Aedes aegypti.
Kylie Zirbel. Florida Medical Entomology Laboratory, Vero Beach, FL.

Lin Zhu. University of Miami, Miami, FL.

Chunxiao Li. University of Florida, Gainesville, FL.

4:30 - 4:45  M23. Understanding how larval control and competition interact to affect vectorial capacity.
Cynthia Lord. University of Florida – IFAS, Vero Beach, FL.

4:45 - 4:55  M24. Phenology of a relict population of the pitcher plant mosquito, Wyeomyia smithii (Diptera: Culicidae) in Tattnall County, Georgia.
Rachel Morrealle. Georgia Southern University, Statesboro, GA.

4:55 - 5:05  M25. Effect of aerial larvicide treatments on an inland population of Aedes sollicitans in Indian River County.
Bruce Peery. Indian River MCD, Vero Beach, FL.

5:05  ADJOURN

6:00 - 7:30  PRESIDENT’S RECEPTION
Rosen Ballroom
Cash bar and appetizers
Silent Auction Preview
TUESDAY MORNING

BEST PRACTICES IN MOSQUITO CONTROL

Moderator: Peter Connelly
AMVAC Environmental Products

8:00 - 8:15  
**T01.** Best management practices for integrated mosquito management in AMCD.  
**Rui-De Xue.** Anastasia MCD, St. Augustine, FL.

8:15 - 8:30  
**T02.** A story about transforming a company through sustainability.  
**Lyell Clarke.** Clarke Mosquito Control, Roselle, IL.

8:30 - 8:45  
**T03.** Sustainability: MMCD’s efforts to reduce waste and save energy.  
**Jim Stark.** Metropolitan MCD, St. Paul, MN.

8:45 – 8:55  
**T04.** Efficacy of rechargeable NIMH D size batteries in CDC miniature light traps.  
**Barbara Bayer.** Manatee County MCD, Palmetto, FL.

8:55 - 9:10  
**T05.** What would MacGyver do? Low tech carbon dioxide-baited vector traps.  
**Nathan Burkett-Cadena.** University of South Florida, Tampa, FL.

9:10 - 9:20  
**T06.** Collaborative use of on-line GIS tools to share GIS data and maps.  
**Ryan Pierson.** Electronic Data Solutions, Jerome, ID.

9:20 - 9:30  
**T07.** Catch basin surveillance and control efforts in Volusia County.  
**Bill Greening.** Volusia County MC, New Smyrna Beach, FL.

9:30 - 9:45  
**T08.** FMCA’s Tallahassee Day 2013 - *Venimus, vidimus et beatus egressus*  
**Jeff Stivers.** Collier MCD, Naples, FL.

9:45 - 10:00  
**FMCA Business Meeting**  
**Bob Betts,** FMCA President

10:00 - 10:30  
**BREAK - Rosen Ballroom**
**Tuesday Morning**

**Best Practices in Mosquito Control II**

*Moderator: T. Wayne Gale  
Lee County Mosquito Control District*

10:30 - 10:40  **T09.** Field evaluation of a new trap (Mos Hole) against BG traps to collect *Aedes albopictus*.  
*Mike Smith*. Anastasia Mosquito CD, St. Augustine, FL.

10:40 - 10:55  **T10.** Construction of a chemical storage building.  
*Dennis Moore*. Pasco County MCD, Odessa, FL.

10:55 - 11:10  **T11.** Recent augmentations to salt marsh surveillance at Volusia County Mosquito Control.  
*Edward D. Northey*. Volusia County MC, New Smyrna Beach, FL.

11:10 - 11:20  **T12.** Analysis of pesticide application against mosquitoes in St. Johns County in the past 8 years.  
*Richard Weaver*. Anastasia MCD, St. Augustine, FL.

11:20 - 11:30  **T13.** *Aedes tormentor* in Indian River County, FL and comments on adult identification.  
*Donald Shroyer*. Indian River MCD, Vero Beach, FL.

11:30 - 12:00  **T14.** African interlude from culicids.  
*David Dame*. Entomological Services, Gainesville, FL.

12:00 - 1:30  **LUNCH – on your own.**

**Commissioners’ Section**

*Mariner Room  
Moderator: Stephen Smith  
Commissioners’ Section Chair, Key West, FL*

12:00 - 1:30  
Open Discussion. Suggestions for Dodd Commissioner Program.


Implications of dengue research for mosquito control programs. *Sharon Isern*, Professor of Biology, Florida Gulf Coast University, Fort Myers, FL.

Response to a Dengue Outbreak in Martin County Florida. *Gene Lemire*, Director, Martin County Mosquito Control District.
TUESDAY AFTERNOON

RESPONSE TO THE 2013 DENGUE OUTBREAK

Grandview Ballroom
Moderator: Scott Michael
Florida Gulf Coast University

1:30 - 1:45  T15. Local public health response: Dengue outbreak (2009-10), Key West.
Christopher Tittel. Public Information Officer, Florida Department of Health in Monroe County, Key West, FL.

1:45 – 1:55  T16. After-effects of dengue: Operational adjustments to deal with re-emerging diseases in the Florida Keys.
Andrea Leal. Florida Keys MCD, Marathon, FL.

1:55 - 2:10  T17. Response to a dengue outbreak in Martin County Florida.
Gene Lemire. Martin County Mosquito CD. Stuart, FL.

Karlette Peck, County Health Officer, Martin County Health Department.

2:25 - 2:40  T19. The lab results are what? The laboratory role in dengue outbreak testing.
Lea Heberlein-Larson. Florida Department of Health, bureau of Public Health Laboratories, Tampa, FL.

Stephanie Moody-Geissler. Florida Department of Health, Tallahassee, FL.

Dr. Aileen Chang, physician, University of Miami, Miami, FL.

3:40 - 4:10  BREAK - Rosen Ballroom
TUESDAY AFTERNOON

GENERAL SESSION
Grandville Ballroom
Moderator: Jim McNelly
Volusia County Mosquito Control

4:10 - 4:20  T22. Effects of larval temperature and nutrition on dengue-1 virus vertical transmission by *Aedes albopictus* mosquitoes.
**Eva Buckner.** Florida Medical Entomology Laboratory, Vero Beach, FL.

**Bruce Morgan.** Volusia County MC, New Smyrna Beach, FL.

4:35 - 4:50  T24. Evaluating VectoBac® WDG as an aerial larvicide for *Aedes aegypti* control.
**Catherine Pruszynski.** Florida Keys MCD, Key West, FL.

4:50 - 5:05  T25. Reproductive biology and susceptibility of Florida *Culex coronator* to infection with West Nile virus.
**Barry Alto.** Florida Medical Entomology Laboratory, Vero Beach, FL.

**Ali, Fulcher.** Anastasia MCD, St. Augustine, FL.

5:15  ADJOURN

6:00 - 7:30  ATTITUDE ADJUSTMENT
SILENT AUCTION

7:30 - 9:00  AWARDS BANQUET
EDUCATION, TRAINING, & OUTREACH
Grandville Ballroom
Moderator: Stephen Sickerman
Lynn Haven, FL.

7:00-12:00 REGISTRATION - Rosen Foyer

8:00 - 8:15 W01. Addressing Haiti’s worst nightmare: The importance of educating citizens about mosquito control. Morel Jules. Indian River MCD, Vero Beach, FL.

8:15 - 8:25 W02. Intern student program benefits applied research at Anastasia Mosquito Control District. Janice Bequette. Anastasia MCD, St. Augustine, FL.


8:50 - 9:05 W05. Creating an educational program for Manatee County Mosquito Control District. Ambyr Marsicano. Manatee County MCD, Palmetto, FL.


9:50 - 10:20 BREAK - Rosen Ballroom
General Session
Grandville Ballroom
Moderator: Chris Lesser
Manatee County Mosquito Control District

10:20 – 10:35  W10. Two organizations that benefit mosquito control: MRF (Mosquito Research Foundation) and International Forum for Surveillance and Control of Mosquitoes and Mosquito-borne Diseases, (IFSCMMD).
James Clauson. Beach MCD, Panama City, FL.

Nicole Howe Williams. Application Dynamics, Cape Coral, FL.

10:45 - 11:00  W12. The efficacy and longevity of a novel Bacillus thuringiensis israelensis formulation: Sustain MBG.
Jane Bonds. Bonds Consulting Group, Panama City, FL.

11:00 - 11:10  W13. Larvicide pretreatment for spring tide brood - Lee County MCD.
Katie Heggemeier & Jonathan Hornby. Lee County MCD, Lehigh Acres, FL.

Ann Moser. Grant County MCD #1, Moses Lake, WA.

Herb Nyberg. New Mountain Innovations, Inc., Old Lyme, CT.

11:40 – 12:00  FMCA Business Meeting and Installation of New Officers
Bob Betts, FMCA President

12:00  ADJOURN

1:00  FMCA Board of Directors Meeting
Neil Wilkinson, FMCA President
Calusa Room

12:45 – 3:45  LCMCD District Tour and Luncheon