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mosquito control for health and comfort

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VISIT US ON THE WEB AT www.nmca.org
PROGRAM
62nd Annual Meeting
Northeastern Mosquito Control Association
December 5-7, 2016
Sea Crest Beach Hotel

**Sunday, December 4, 2016**

3:00-7:00 PM  Exhibitor’s Set-Up       Nauset I & II
5:30 PM      Audit Committee Meeting    Highland Room
6:00 PM      Executive Board Meeting    Highland Room

**Monday, December 5, 2016**

8:00 AM  Registration Table Open       Nauset Nook
8:00 AM  Exhibitor’s Set Up            Nauset I & II
9:00 AM  Exhibits Booths Open          Nauset I & II

First Session
Moderator: Priscilla Matton           Nauset III, IV & V

9:00 AM  Welcome to Falmouth
Susan Moran, President Cape Cod Selectmen &
Councilor’s Association and Vice Chair, Falmouth
Board of Selectmen

9:20 AM  Presidential Address
Priscilla Matton, President NMCA

9:30 AM  AMCA Update
Joe Conlon, Technical Advisor AMCA

10:00 AM  Coffee Break            Nauset I & II
Monday, December 5, 2016

Second Session
Moderator: Ellen Bidlack, Nauset III, IV & V

10:30 AM  Arbovirus Activity in the United States in 2016
            John-Paul Mutebi, Centers for Disease Control

10:45 AM  Maine Arbovirus Update, 2016
            Sara Robinson, Maine CDC, Kathy Murray, ME Department of Agriculture, Conservation and Forestry and Charles Lubelczyk, ME Medical Center Research Institute

11:00 AM  2016 Massachusetts Arbovirus Season
            Matthew Osborne, MA Department of Public Health

            Abigail Mathewson, NH Department of Health and Human Services

11:30 AM  Arbovirus Activity in Connecticut, 2016
            John Shepard, Philip Armstrong, Michael C. Thomas, Michael Misencik, and Angela Bransfield, CT Agricultural Experiment Station

11:50 AM  Rhode Island Update 2016
            Al Gettman, RI DEM Mosquito Abatement

12:00 Noon  Lunch (on your own)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
</table>
| 1:30 PM| **History of Asian Tiger Mosquito, *Aedes albopictus*, in Southeastern Massachusetts**  
Priscilla Matton, Bristol County Mosquito Control |
| 1:40 PM| **Priority Effects Competition between the Invasive Mosquito *Aedes albopictus* and the Co-Occurring Resident Mosquito *Culex pipiens***  
Megan Saunders (*Jobbins Scholarship Award Winner 2015*), Shannon LaDeav, Paul Leisham, University of Maryland |
| 1:55 PM| **Surveillance and Monitoring of Potential *Aedes albopictus* Populations in Plymouth County, Massachusetts**  
Ken Andrea and Ellen Bidlack, Plymouth County Mosquito Control |
| 2:10 PM| **Pennsylvania Arbovirus Update**  
Michael Hutchinson, PA Department of Environmental Protection |
| 2:25 PM| **2016 Arbovirus Surveillance in Vermont**  
Patti Casey and Alan Graham, VT Agency of Agriculture Food, and Markets |
| 2:40 PM| **New Jersey Arboviral Report, 2016**  
Lisa Reed and Mark Robson, Center for Vector Biology, Rutgers University |
<p>| 3:00 PM| <strong>Coffee Break</strong>                                                      |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:30 PM</td>
<td>Molecular Phylogenetics and Evolution of Habitat Specialization in <em>Aedini</em> Mosquitoes</td>
<td>John Soghigian and Theodore Andreadis, CT Agricultural Experiment Station, Todd Livdahl, Clark University</td>
</tr>
<tr>
<td>3:45 PM</td>
<td>Isolation of La Crosse Virus from Mosquitoes Collected in Connecticut</td>
<td>Philip Armstrong, John Shepard, Michael Thomas, Michael Misencik, Angela Bransfield, and Theodore Andreadis, CT Agricultural Experiment Station</td>
</tr>
<tr>
<td>4:05 PM</td>
<td>A Feathery Tale of Close Encounters: Avian Hosts as Super-spreaders of Eastern Equine Encephalitis</td>
<td>Goudarz Molaei, John Shepard, Michael Thomas and Theodore Andreadis, CT Agricultural Experiment Station</td>
</tr>
<tr>
<td>4:35 PM</td>
<td>Vector-Host Interactions of Other Evil Mosquito Species at Eastern Equine Encephalitis Virus Foci</td>
<td>John Shepard, Goudarz Molaei, Michael Thomas and Theodore Andreadis; CT Agricultural Experiment Station</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>NMCA Business Meeting</td>
<td>Nauset III, IV &amp; V</td>
</tr>
<tr>
<td>6:30 PM</td>
<td>President’s Reception</td>
<td>Oceanview Room</td>
</tr>
</tbody>
</table>
Tuesday, December 6, 2016

6:00 AM  NMCA 9th Annual Fun Run/Walk
          Hotel Lobby

8:00 AM  Registration Table Open  Nauset Nook

8:00 AM  Exhibit Booths Open  Nauset I & II

Fifth Session
Moderator: Dave Lawson  Nauset III, IV & V

Tuesday, December 6, 2016

8:30 AM  Fighting Vector-borne Disease – Putting the Pieces Together with Geospatial Solutions
          Chad Minteer and Linda Glover, Frontier Precision, Inc.

8:45 AM  Use of Geographical Information Systems (GIS) at Norfolk County Mosquito Control
          Nate Boonisar, Norfolk County Mosquito Control

9:00 AM  Cape Cod Mosquito Control GIS Program
          Audrey Russano, Cape Cod Mosquito Control

9:15 AM  Data and Applications for Mosquito Control at the Department of Agricultural Resources
          Dake Henderson and Joao Tavares, MA Department of Agricultural Resources

9:30 AM  Coffee Break  Nauset I & II
Tuesday, December 6, 2016

Sixth Session
Moderator: Charles Lubelczyk   Nauset III, IV & V

9:45 AM  Urban Warfare Against Zika in Miami. A First Hand Account
Wally Terrill, Clarke Mosquito Control Products

10:05 AM  Direct and Indirect Effects of Native and Invasive Plants on Mosquito Ecology
Allison Gardner, University of Maine

Doug Bidlack, East Middlesex Mosquito Control and Brian Farless, Suffolk County Mosquito Control

10:35 AM  An Examination of Early Season Treatments Using Natular G30
Frank H. Cornine III, Central Mass. Mosquito Control and Todd Duval, Bristol County Mosquito Control

10:50 AM  Beaver Mitigation in Central Massachusetts
Katrina Proctor and Timothy Deschamps, Central Mass. Mosquito Control

11:00 AM  Vendors Brunch   Nauset III, IV & V
Moderator:  Caroline Haviland
# Seventh Session

**Moderator:** Timothy McGlinchy  
*NAuset III, IV & V*

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:45 PM</td>
<td><strong>My Summer Living the Zika Dream</strong></td>
<td>Joe Conlon, American Mosquito Control Association</td>
</tr>
<tr>
<td>1:15 PM</td>
<td><strong>In2Care Mosquito System</strong></td>
<td>Cam Renn, Univar Environmental Sciences</td>
</tr>
<tr>
<td>1:45 PM</td>
<td><strong>Management of Vector-borne Diseases in North America: Minimizing Negative Effects on Pollinators</strong></td>
<td>Howard Ginsberg, Timothy Bargar, Michelle Hladik, and Charles Lubelczyk, ME Medical Research Institute</td>
</tr>
<tr>
<td>2:00 PM</td>
<td><strong>One Man’s Trash is Another Man’s Trash – Hurricane Sandy Debris Removal in Connecticut</strong></td>
<td>Kurt Ehrhart and John North, Innovative Mosquito Management, Inc.</td>
</tr>
<tr>
<td>2:15 PM</td>
<td><strong>Integrated Marsh Management on Long Island, NY</strong></td>
<td>Dominick Ninivaggi, Ilia Rochlin, Mary Dempsey, Tom Iwanejko, Camilo Salazar, and Frank Castelli, Suffolk County Vector and Water Quality Units</td>
</tr>
<tr>
<td>2:30 PM</td>
<td><strong>Coffee Break</strong></td>
<td></td>
</tr>
</tbody>
</table>
Tuesday, December 6, 2016

Eighth Session
Moderator: Doug Bidlack
Nauset III, IV & V

3:00 PM  Use of Emergent Traps to Survey for *Aedes albopictus* in Portland, Maine, USA 2016
Margaret Welch, Benjamin Stone, Sara Robinson, and Chuck Lubelczyk, Maine Medical Center Research Institute

3:15 PM  Life Cycle and Pathology of a Novel Microsporidian Parasite Isolated from Invasive Exotic Mosquito, *Aedes japonicus* from Japan
Theodore Andreadis, Hiroyuki Takaoka, Yasushi Otsuka, and Charles Vossbrinck, CT Agricultural Experiment Station

3:35 PM  Control of *Tabanus nigrovittatus* by Targeting Male Feeding
John Stoffolano, Jr, University of Massachusetts

4:15 PM  Poster Session  Nauset I & II

1. Expanding *Aedes albopictus* Detection in Massachusetts
Matthew Osborne and Timothy Lynam, Massachusetts DPH

2. Arbovirus Surveillance on Joint Base Cape Cod
Senior Environmental Corps

3. Shannon Diversity and Noise in Mosquito Collection Data
Todd Duval and Priscilla Matton, Bristol County Mosquito Control
Tuesday, December 6, 2016

4:15 PM Poster Session (cont.) Nauset I & II

4. Surveillance of Deer Tick Virus (Powassan lineage II) on Cape Cod and the Islands
   Dapsis, LJ, Fernandez N, Guang X, Bechtold E, Rich SM

5. Field Efficacy of NCMCD Spring and Summer Mosquito Abatement Practices
   Kaitlyn O’Donnell, Norfolk County Mosquito Control

6:30 PM Silent Auction/Reception
   Oceanview Room

7:30 PM NMCA Banquet
   Oceanview Room

Wednesday, December 7, 2016

8:00 AM Exhibits Open Nauset I & II

Ninth Session
Moderator: Chris Horton Nauset III, IV & V

9:00 AM Doing More with Less: Mosquito Surveillance and Response Planning in a Resource-Scarce State
   Kathy Murray, M. Patterson, H. Jennings, S. Robinson, C. Lübelsczyk, D. Struble, and A. Gardner, ME Department of Agriculture, Conservation and Forestry

9:20 AM EPA Update
   Andrea Szylwian, US EPA Region 1

9:40 AM Risk Communication
   Michael McClean, Massachusetts Department of Agricultural Resources
Wednesday, December 7, 2016

10:00 AM Coffee Break Nauset I & II

Tenth Session
Moderator: Gabrielle Sakolsky Nauset III, IV & V

10:30 AM Developing a Strategy for Risk Communications
Kevin Morley, Barnstable County Regional Emergency Planning Committee

11:00 AM Engaging Workers in Safe Work Behavior
Marina Brock, Barnstable County Department of Health and Environment

11:30 AM Changing Public Perceptions of Pesticide Use and Their Consequences
Ernest Ruber, Professor emeritus Northeastern University

12:00 Noon Closing Remarks
Gabrielle Sakolsky, President NMCA

The NMCA Executive Board would like to thank the presenters, the exhibitors and the entire NMCA membership for their support in making this another great conference. We would like to wish everyone and their families a safe and happy holiday season.

We look forward to seeing everyone again next year for the NMCA’s 63rd annual meeting at the Hotel 1620 at Plymouth Harbor in Plymouth, MA from December 4-6, 2017.
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TARGET THE RIGHT SPECIES
The art of developing effective bioreational solutions begins and ends with target specificity.

AVOID harm to predator and pollinator populations

PRESERVE the delicate balance of the ecosystem

MANAGE the development of resistance to preserve efficacy for generations to come

DELIVER increased efficacy against specific vector species

CREATE SOLUTIONS FOR DIVERSE SITUATIONS
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Solutions that include multiple AIs promote balance, precision, and the creative freedom to respond to a wide range of challenges.

MAXIMIZE the strengths of each AI

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Polluted habitats
Heavily vegetated areas
Natural and artificial containers

PROVIDE residual control

CUSTOMIZE SOLUTIONS
Distinct needs in the field drive the development of customized solutions.

REDUCED application costs

EMPOWER PUBLIC HEALTH PROFESSIONALS
As bioreational approaches continue to evolve, next-generation solutions will deliver even greater value.

DELIVER pre-hatch control

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The NMCA Executive Board wants to remind everyone that it's never too early to begin thinking about the various scholarships, grants and awards that the NMCA offers to the membership each year:

- **The Bob Armstrong Award**: is given to a NMCA member for meritorious service to NMCA and mosquito control.

- **The McColgan Grant-in-Aid**: will go to an individual whose work is directly related to the advancement of operational mosquito control: for example, Surveillance technology, Spray technology, Biological control, Physical control, Data processing.

- **The Jobbins Scholarship**: The Jobbins Scholarship will go to a student whose work is in an area relevant to mosquito, biting fly control or other vectors in the Northeast related to disease transmission; for example, wetlands biology-ecology, entomology or vector parasitology. Studies may range in nature from purely ecological to strict vector control.

- **The Dave Scott Memorial Award**: This award is dedicated to the recognition of the fact that many advancements in our work come from the rank-and-file as a result of their time spent on the job, their experience and common sense. It may acknowledge an improvement in a procedure, a practice, any of the many operational strategies that we perform in mosquito control on a day-to-day basis.

- **The David H. Colburn Award**: This award is dedicated to David H. Colburn, charter member of NMCA, in recognition of his service to mosquito control and his perfect attendance for the first 50 NMCA Annual Meetings. NMCA members in good standing for at least 2 years and with 20 years consecutive or cumulative in mosquito control are eligible.

For more information on these awards, please contact the current NMCA President at president@nmca.org or check this link: [http://www.nmca.org/Scholarship.htm](http://www.nmca.org/Scholarship.htm)
63rd Annual Meeting

At this meeting there will be:
- State reports on mosquito activity from New England, New York & New Jersey
- Research projects in mosquito biology and control
- Updates on new techniques and procedures in mosquito control
- Much much more!

December 4-6, 2017

The 63rd Annual NMCA Meeting will be held at the Hotel 1620 at Plymouth Harbor in Plymouth, MA from December 4-6, 2017. Room cost for NMCA will be $124 per night (single rate – plus tax) - please specify the "Northeastern Mosquito Control Association Annual Meeting" when you book your room. This special rate is only effective until Nov. 17, 2017 please book soon!! For reservations call (508) 747-4900

The Hotel 1620 is within walking distance to the Mayflower II, Plymouth National Wax Museum, Plymouth Rock and other area attractions, and only minutes from car to Plimouth Plantation.

For more information check our website at www.nmca.org

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<th>Year</th>
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<td>Joseph F. Pannone</td>
<td>Amherst, MA</td>
<td>February 2 - 3, 1955</td>
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<tr>
<td>1956-57</td>
<td>Joseph F. Pannone</td>
<td>Waltham, MA</td>
<td>January 19 - 20, 1956</td>
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<td>1957-58</td>
<td>Lewis F. Wells, Jr.</td>
<td>Providence, RI</td>
<td>February 14 - 15, 1957</td>
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<td>1959-60</td>
<td>Dr. Hugo Jarmack</td>
<td>Boston, MA</td>
<td>February 19 - 20, 1959</td>
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<td>1960-61</td>
<td>Robert L. Armstrong</td>
<td>Boston, MA</td>
<td>March 27 - 30, 1960</td>
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<td>1963-64</td>
<td>Cndr. John W. Rehn</td>
<td>Waltham, MA</td>
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<td>1964-65</td>
<td>Robert W. Spencer</td>
<td>Bridgewater, MA</td>
<td>November 18 - 19, 1964</td>
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<td>1965-66</td>
<td>Robert W. Spencer</td>
<td>Seekonk, MA</td>
<td>November 3 - 5, 1965</td>
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<td>Joseph F. Pannone</td>
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<td>November 2 - 4, 1966</td>
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<td>Joseph F. Pannone</td>
<td>Seekonk, MA</td>
<td>October 4 - 6, 1967</td>
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<td>1969-70</td>
<td>Leroy Kinsey</td>
<td>Seekonk, MA</td>
<td>November 15 - 17, 1969</td>
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<td>1970-71</td>
<td>Frederick J. Danos</td>
<td>Boston, MA</td>
<td>November 16 - 18, 1970</td>
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<td>Robley W. Nash</td>
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<td>Robert Ostergaard</td>
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<td>David H. Colburn</td>
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<td>Norman R. Dobson</td>
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<td>Priscilla Matton</td>
<td>Newport, RI</td>
<td>December 7-9, 2015</td>
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