

EVENTS AT A GLANCE

Monday December 9th

<u>Registration table opens</u>	8:00 AM	Foyer at Regency 1 & 2
<u>NMCA Business Meeting</u>	5:00 PM	Regency 1 & 2
<u>Presidents Reception & Awards</u>	6:30 PM	Il Cigno Restaurant

Tuesday December 10th

<u>Vendor's luncheon</u>	11:30am – 1:15 PM	Regency 1 & 2
<u>Poster Session</u>	4:00 PM	Foyer at Regency 1 & 2
<u>Reception & Silent Auction</u>	6:30 - 7:30 PM	Pool
<u>NMCA Banquet</u>	7:30 PM	Pool

Wednesday Dec 11th

<u>Northeast Regional Center for Excellence in Vector-Borne Diseases (NEVBD) Pesticide Resistance Workshop – Pre-registration is required.</u>		
<u>Lunch provided</u>	12:30 – 3 PM	Regency 1 & 2

The registration table is located outside Regency 1 & 2 and will be open each day after 8:00am

Other items of note:

- **Il Cigno Restaurant - Breakfast**

Il Cigno Restaurant is open daily for breakfast starting at 6:30am. A bountiful breakfast buffet is served daily, or you may also order from the menu if you prefer a lighter breakfast.

- **Il Cigno Restaurant - Lunch**

The Hotel restaurant will **not** be open for lunch on the weekdays during the conference.

- **Legends Sports Bar**

Legends Sports Bar & Grille, located in the DoubleTree™ Milford hotel, is open weekdays for dinner from 4:00pm – 1:00am. Come unwind and watch your favorite sporting event on one of our many flat screen televisions.

A list of nearby restaurants is available at the registration table.

- Photo Salon Entries are due by Tuesday at noon. Fill out a sheet at the registration table with photos on a USB stick, or simply e-mail Nate at nmca.photosalon@nmca.org
- Posters for the Poster Session are due to the registration table by Tuesday at noon.
- Silent auction items can be left at the registration table at any time up until noon on Tuesday.

PROGRAM
65th Annual Meeting
Northeastern Mosquito Control Association
December 8-11, 2019
DoubleTree™ by Hilton Hotel, Milford MA

Sunday, December 8, 2019

3:00 - 7:00 PM	Exhibitor Set Up	Regency 3
5:30 PM	Audit Committee Meeting	Worcester
6:00 PM	Executive Board Meeting	Worcester

Monday, December 9, 2019

8:00 AM	Registration Table Open	Lobby Foyer
8:00 AM	Exhibitor Set Up	Regency 3
9:00 AM	Exhibit Booths Open	Regency 3

First Session: Chris Horton, Moderator Regency 1 & 2

9:00 AM **Welcome to Milford**
John Lebeaux – Commissioner, Massachusetts
Department of Agricultural Resources

9:10 AM **Presidential Address**
Chris Horton - President NMCA

Monday, December 9, 2019

9:25 AM **AMCA Update**
Bob Duryea – AMCA North Atlantic
Regional Director

9:40 AM **NMCA Remembrances - David Scott.**
Timothy Deschamps – Central Massachusetts
Mosquito Control Project

10:00 AM

Coffee Break

Regency 3

Second Session: Tim Deschamps, Moderator Regency 1 & 2

10:30 AM **Rhode Island Arbovirus Update 2019**
Al Gettman - RI DEM Mosquito Abatement

10:50 AM **Massachusetts Arbovirus Season 2019**
Matthew Osborne - MA Department of Public
Health

11:20 AM **Arbovirus Activity in Connecticut, 2019**
John Shepard, Philip Armstrong, Tanya Petruff,
Michael Misencik, and Angela Bransfield - CT
Agricultural Experiment Station

11:45 – 1:30

Lunch (on your own)

Monday, December 9, 2019

Third Session: Chuck Lubelczyk, Moderator Regency 1 & 2

- 1:30 PM **Emerging Influences on Public Health
Mosquito Control**
J. Lyell Clarke - Clarke
- 2:00 PM **New York 2019 EEE update**
Alan Dupuis - NY Dept. of Health, Wadsworth
Center
- 2:15 PM **New Jersey Arboviral Report, 2019**
Lisa Reed and Dina Fonseca - Center for Vector
Biology, Rutgers University
- 2:35 PM **Pennsylvania 2019 Season Update**
Shelby Eby - Pennsylvania Department of
Environmental Protection

3:00 PM

Coffee Break

Regency 3

Fourth Session: Wally Terrill, Moderator Regency 1 & 2

- 3:20 PM **2019 Arbovirus Surveillance in Vermont**
Eliza Doncaster and Patti Casey - Vermont Agency
of Agriculture, Food, & Markets
- 3:35 PM **Maine 2019 Season Update**
Chuck Lubelczyk – Maine Medical Center Research
Institute

Monday, December 9, 2019

- 3:45 PM **NH Arbovirus update 2019**
Presenting for NH, Chuck Lubelczyk – Maine
Medical Center Research Institute
- 3:55 PM **Sumilarv 0.5G: A New Tool for Mosquito Control**
Jennifer Williams, MGK
- 4:25 PM **PCR Mosquito Testing WNV, EEE, SLE**
Seth Egan, Co Diagnostics, Inc.
- 5:00 PM **NMCA Business Meeting**
Regency 1 & 2
- 6:30 PM **President's Reception**
Il Cigno Restaurant
- 7:00 PM **Scholarships and Awards**
Il Cigno Restaurant

Since the early 2000's, the NMCA has provided financial support in various amounts to AMREF (African Medical and Research Foundation, USA) through the Association's John Kuschke Memorial Fund. The donation is used to pay for laboratory training for individuals looking to further their career in the field of public health in which mosquito borne diseases play a large role. Individual recipients bring this knowledge directly back to their villages and contribute to the health care needs of their communities. With our support, AMREF is able to send laboratory professionals to the Medical Laboratory Practices and Management Course in Nairobi, Kenya. In 2018, NMCA donated \$3000 to AMREF. Information on AMREF, the Medical Laboratory Practices and Management Course, as well as thank you letters from recipients are available to the Association. AMREF remains very grateful for NMCA's continued long-term support, which students across Africa rely on greatly to attend this invaluable program.

Tuesday, December 10, 2019

- 6:00 AM **NMCA 12th Annual
Fun Run/Walk** Hotel Lobby
- 8:00 AM **Registration Table Open** Lobby Foyer
- 8:00 AM **Exhibit Booths Open** Regency 3

Fifth Session: Dave Lawson, Moderator Regency 1 & 2

8:30 AM **Assessing the Generality of Multi-Vector Species
Contributions to Arboviral Transmission in the
Northeast U.S.**
Joseph R. McMillan, Phillip M. Armstrong, Theodore
G. Andreadis - Connecticut Agricultural Experiment
Station

8:50 AM **Reflections on the Ecology and Epidemiology of
Eastern Equine Encephalitis in the Northeastern
U.S.**
Theodore G. Andreadis - Connecticut Agricultural
Experiment Station

9:30 AM Coffee Break Regency 3

Sixth Session: Gabi Sakolsky, Moderator Regency 1 & 2

10:00 am **Arboviral Update for 2019**
John-Paul Mutebi - CDC

Tuesday, December 10, 2019

- 10:25 AM **Construction Wetlands: Underappreciated (by people) mosquito habitats in and around construction zones**
Richard Pollack - PhD, Senior Environmental Public Health Officer, Harvard University
- 10:45 AM **Autumn Aerial Larval Control of *Cq. perturbans* (Walker) with VectoLex FG in Norfolk County MA**
Kaitlyn O'Donnell, David Lawson - Norfolk County Mosquito Control District
- 11:05 AM **Using LIDAR Elevation Data to Determine Treatment Area on the Neponset River Floodplain**
Nathaniel Boonisar - Norfolk County Mosquito Control District

11:30 AM – 1:15 PM *Vendors Luncheon* *Regency 1 & 2*

Seventh Session: Ellen Bidlack, Moderator Regency 1 & 2

- 1:15 PM **Changes in Mosquito Populations over 36 years at the East Middlesex Mosquito Control Project**
Doug Bidlack, Brian Farless, and David Henley - East Middlesex Mosquito Control Project
- 1:35 PM **A Comparison of Dry Ice Versus CO₂ from Tanks as Bait for CDC Light Traps in Middlesex County Massachusetts**
Doug Bidlack and Brian Farless - East Middlesex Mosquito Control Project

Tuesday, December 10, 2019

- 1:50 PM **How Weather may be influencing EEEV Outbreaks in Southeastern Massachusetts**
Ellen Bidlack and Todd Duval – Plymouth and Bristol County Mosquito Control Project's
- 2:05 PM **The Effects of Climate and Landscape on the Distributional Changes of the Potential EEEV Vector *Culex erraticus* in New Jersey**
James Stewart, Scott Crans, Lisa Reed, Autumn Angelus, Nicholas Indelicato, Mike Senyk, Thomas Verna, Gregory Williams, and Laura Harrington - Cornell University
- 2:20 PM **The impact of *Ascogregarina culicis* infection on *Aedes aegypti* susceptibility to *Bacillus thuringiensis* var. *israelensis* (Bti) and protection and control strategies to zika virus.**
Katherine Heejung Ko – UMass Boston

2:40 PM

Coffee Break

Regency 3

Eighth Session: Roger Wolfe, Moderator Regency 1 & 2

- 3:10 PM **Vector Competence of *Ae. albopictus* populations from the Northeastern U.S. for Chikungunya, Dengue, and Zika Viruses**
Philip Armstrong, Andrea Soria-Gloria, Sean Bialosknia, Alex Ciota, Angela Bransfield, Anne Payne, and Laura Kramer – Connecticut Agricultural Experiment Station

Tuesday, December 10, 2019

3:25 PM **Updates from the CDC Northeast Regional Center for Excellence in Vector-borne Diseases**
Laura C. Harrington, PhD - Northeast Regional Center for Excellence in Vector-borne Diseases

4:00 PM Poster Session Regency Foyer

Please stop by the Poster Session and engage with the authors.

P-1 Feral Tire Removal in Bristol County
Todd Duval

P-2 Visualizing the Efficacy of ULV Pyrethroid Application in Reducing Human EEE Risk in Massachusetts
Joseph Poggi, Todd Duval, Andrew Rivera, Laura Harrington

P-3 Effects of Sub-lethal Permethrin Exposure on Larval *Culex pipiens* Behavioural Response to Conspecific Alarm Cues
Margret Welch and Joseph K. Staples

P-4 Comparing Diagnostic Criteria for Bifenthrin in Field-collected and Laboratory-reared *Culex pipiens* (Diptera: Culicidae)
Megan Greenwood, Molly Meagher, Joseph Staples, Charles Lubelczyk, and Rebecca Robich

P-5 A Retrospective Geospatial Analysis of the Environmental and Socio-economic Determinants of *Aedes japonicus* in Rhode Island
Jannelle Couret, Nathalie Lavoie, Al Gettman, Marco Notorangelo, Roger Lebrun, Howard S. Ginsberg

Tuesday, December 10, 2019

6:30 PM **Silent Auction/Reception**
Pool Room

7:30 PM **NMCA Banquet**
Pool Room

Wednesday, December 11, 2019

8:00 AM **Exhibits Open** Regency 3

Ninth Session: John Shepard, Moderator Regency 1 & 2

9:00AM **The Future of Stormwater Management**
Peter M. Hanrahan - CPESC, E.J. Prescott, Inc.

9:25 AM **What Makes a Software Project Successful?**
Notes from the Field
Chad Minter, Linda Glover - Frontier Precision, Inc.

9:40 PM **Optimal Sampling Methods for Assessment of
the Newly Invasive Asian Long-Horned Tick,
Haemaphysalis longicornis, in the Northeast,
USA**
Phurchoki Sherpa, Nicholas Piedmonte, Kathryn
Wunderlin, Laura Harrington, Richard Falco –
Cornell University

10:00 AM

Coffee Break

Regency 3

Wednesday, December 11, 2019

Tenth Session: Chris Horton, Moderator Regency 1 & 2

- 10:30 AM **Innovative Software to Manage Integrated Vector Management in Real Time**
Zia Siddiqi, Ph. D. - ServDay Software Systems
- 11:00 AM **Changes in Diversity of Connecticut Mosquitoes**
Tanya Petruff, Philip Armstrong, John Shepard,
Angela Bransfield, Michael Miscencik – Connecticut
Agricultural Experiment Station
- 11:20 PM **Assessing Knowledge, Attitudes, and Practices
and the Risk of Tick Exposure of Park Visitors on
Staten Island, New York**
Erin Hassett, Purva Shah, Maria Fernandez, Maria
Duik-Wasser, Samantha Centeno, and Laura
Harrington – Cornell University
- 11:35 AM **NEVBD Pesticide Resistance Monitoring
Network: Establishing a Centralized Network to
Increase Regional Capacity for Pesticide
Resistance Detection and Monitoring**
James C. Burtis, Joseph D. Poggi, Joseph R.
McMillan, Scott C. Crans, Scott R. Campbell, Amy
Isenburg, Janice Pulver, Theodore G. Andreadis,
Philip M. Armstrong, and Laura C. Harrington –
Cornell University
- 11:50 AM **Closing Remarks**
Chris Horton, President NMCA

Wednesday, December 11, 2019

12:30 – 3:00 pm **Resistance Workshop** Regency 1 & 2

Pre-registration required

Lunch Provided

**Hosted by the Northeast Regional Center for Excellence in
Vector-Borne Diseases at Cornell University**

Topics Covered

- *Pesticide Resistance Basic Concepts and Mechanisms*
- *CDC Bottle Bioassay*
- *Larvicidal Resistance Assays*
- *Developing Diagnostics and Interpreting Susceptibility Data*
- *Interpreting Bioassay Data*
- *Use of Resistance Data to Inform Mosquito Management*

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 66th annual meeting at the **Cape Codder Hotel**, Barnstable, MA from December 6-9, 2020