**EVENTS AT A GLANCE**

**Monday December 9th**

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

**Tuesday December 10th**

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

**Wednesday Dec 11th**

- **Northeast Regional Center for Excellence in Vector-Borne Diseases (NEVBD) Pesticide Resistance Workshop** – Pre-registration is required.
- **Lunch provided** 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.
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
Emerging Influenza on Public Health  
Mosquito Control
J. Lyell Clarke - Clarke

2:00 PM  New York 2019 EEE update
New York 2019 EEE update
Alan Dupuis - NY Dept. of Health, Wadsworth Center

2:15 PM  New Jersey Arboviral Report, 2019
New Jersey Arboviral Report, 2019
Lisa Reed and Dina Fonseca - Center for Vector Biology, Rutgers University

2:35 PM  Pennsylvania 2019 Season Update
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
2019 Arbovirus Surveillance in Vermont
Eliza Doncaster and Patti Casey - Vermont Agency of Agriculture, Food, & Markets

3:35 PM  Maine 2019 Season Update
Maine 2019 Season Update
Chuck Lubelczyk – Maine Medical Center Research Institute
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
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* Behavoiral 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

9:00 AM  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 Minteer, 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

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

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