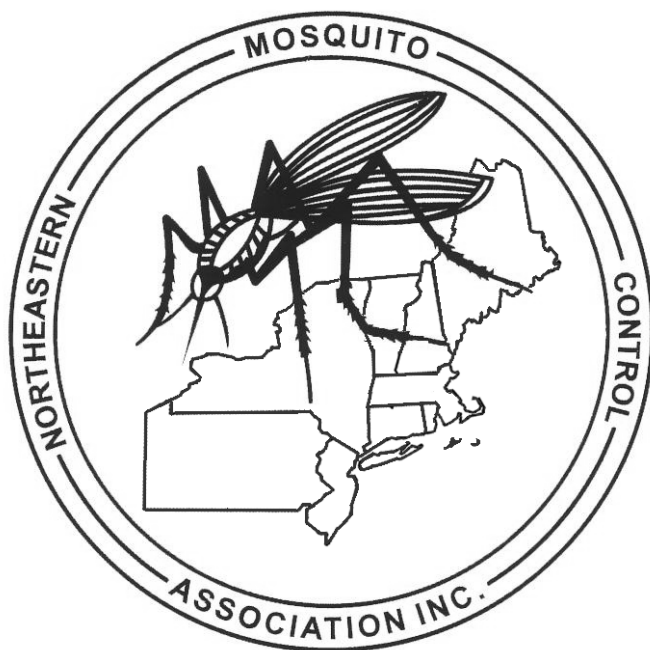


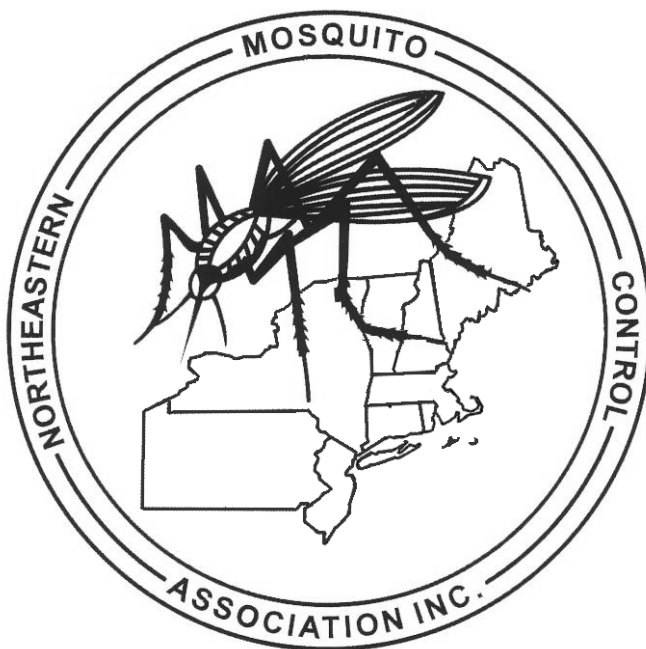
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63rd Annual Meeting



DECEMBER 4-6, 2017
Hotel 1620 at Plymouth Harbor
Plymouth, MA

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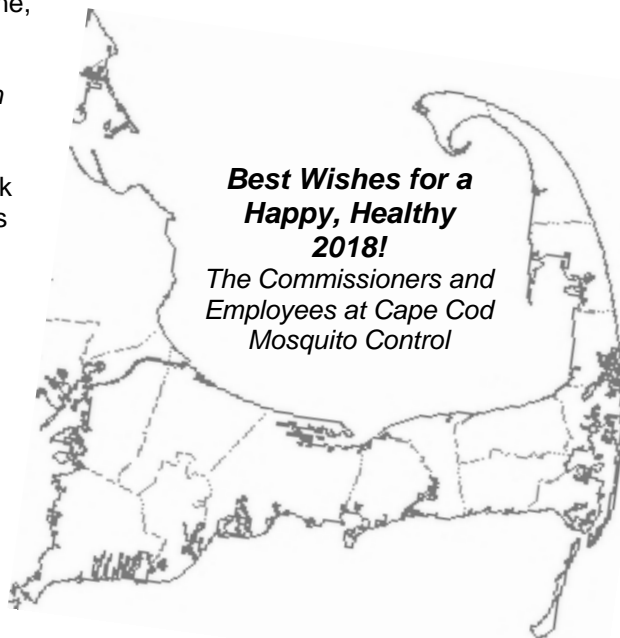


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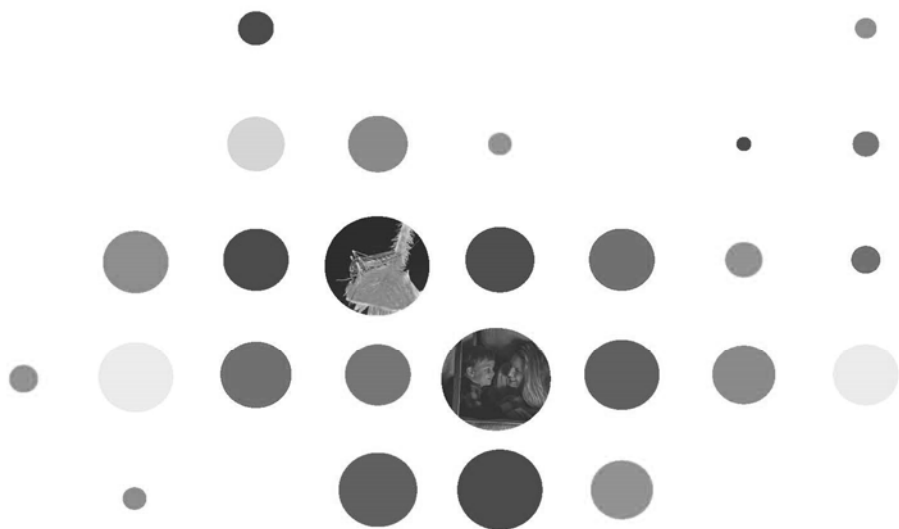


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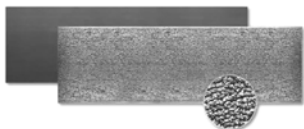
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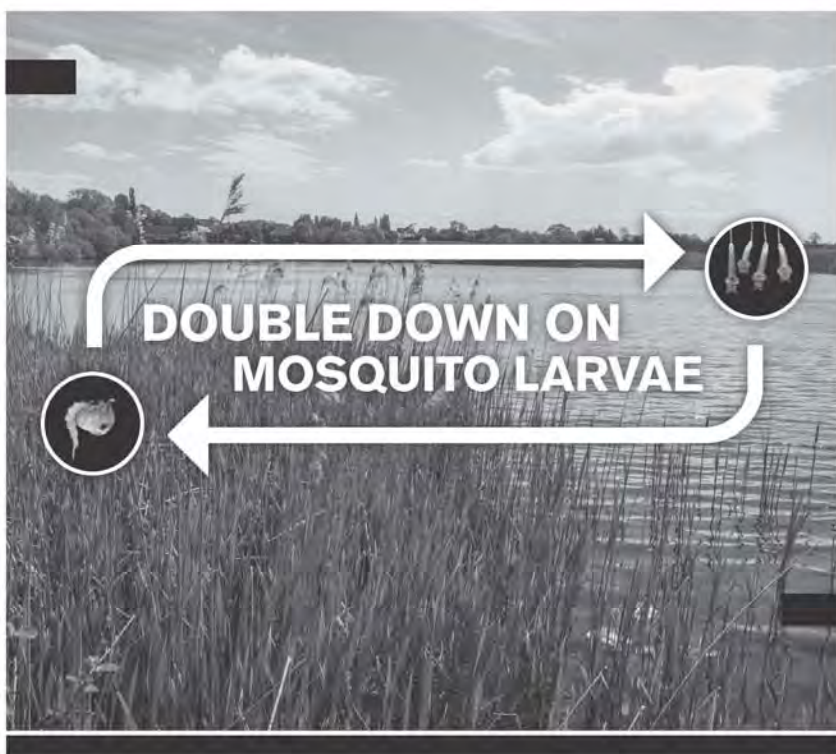
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PROGRAM
63rd Annual Meeting
Northeastern Mosquito Control Association
December 4-6, 2017
Hotel 1620 at Plymouth Harbor

Sunday, December 3, 2017

3:00-7:00 PM	Exhibitor's Set-Up	Atlantic Room
5:30 PM	Audit Committee Meeting	Halifax Room
6:00 PM	Executive Board Meeting	Halifax Room

Monday, December 4, 2017

8:00 AM	Registration Table Open	Lobby Foyer
8:00 AM	Exhibitor's Set Up	Atlantic Room
9:00 AM	Exhibits Booths Open	Atlantic Room

First Session

Moderator: Gabrielle Sakolsky	Regency Ballroom
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9:00 AM	Welcome to Plymouth State Senator Vinny deMacedo	
9:20 AM	Presidential Address Gabrielle Sakolsky, President NMCA	
9:30 AM	A Few Words from the AMCA North Atlantic Regional Director Robert Duryea, North Atlantic Regional Director AMCA	
10:00 AM	Coffee Break	Atlantic Room

Monday, December 4, 2017

Second Session

Regency Ballroom

Moderator: Al Gettman

- 10:30 AM **2017 Massachusetts Arbovirus Season**
Matthew Osborne, MPH, Zoonotic Project
Coordinator and Arbovirus Surveillance
Program Manager
- 10:50 AM **Arboviral Surveillance – New Hampshire, 2017**
Carolyn Fredette, NH Department of Health
and Human Services
- 11:10 AM **Arbovirus Activity in Connecticut, 2017**
John Shepard, Center for Vector Biology and
Zoonotic Diseases, The Connecticut
Agricultural Experiment Station
- 11:30 AM **Arbovirus Surveillance, Maine 2017**
Charles Lubelczyk, Sara Robinson, and Kathy
Murray, Maine Dept. of Health & Human
Services
- 12:00 Noon Lunch - On Your Own

Third Session

Regency Ballroom

Moderator: Timothy Deschamps

- 1:30 PM **Pennsylvania State Report 2017**
Michael Hutchinson, PA Bureau of Labs –
Vector Management
- 1:50 PM **Rhode Island Update 2017**
Al Gettman, Rhode Island Dept. of
Environment Management

Monday, December 4, 2017

2:10 PM	2017 Arbovirus Surveillance in Vermont Eliza Doncaster and Judy Rosovsky, VT Dept. of Agriculture	
2:30 PM	2017 Arbovirus and Adult Mosquito Activity in New Jersey Lisa Reed and Dina Fonseca, Rutgers University Center for Vector Biology	
2:45 PM	New Jersey State Report, 2017 Scott Crans, NJ Office of Mosquito Coordination	
3:00 PM	Coffee Break	Atlantic Room
<u>Fourth Session</u> Moderator: Ellen Bidlack		Regency Ballroom
3:30 PM	New York State Report 2017 Alex Ciota, NY State Dept. of Health	
3:50 PM	Mosquito Control in the US: a Role for PMPs and Mosquito Control Districts Joe Conlon, Technical Advisor AMCA	
4:30 PM	Professional Training: The Unmet Need Işık Ünlü and Chuck Collins, Mercer County Mosquito Control, Center for Vector Biology, Rutgers University	
4:45 PM	Unlock the Power of Your GIS – Key Strengths and Planned Improvements Linda Glover and Chad Minteer, Frontier Precision	
5:30 PM	NMCA Business Meeting	Regency Ballroom

Monday, December 4, 2017

6:30 PM	President's Reception	Atlantic Room
7:00 PM	NMCA Scholarships and Awards	Atlantic Room

Tuesday, December 5, 2017

6:00 AM	10th Annual Fun Run / Walk Meet in the Hotel Lobby	
8:00 AM	Registration Tables Open	Lobby Foyer
8:00 AM	Exhibits Open	Atlantic Room
<u>Fifth Session</u> Moderator: Doug Bidlack		Regency Ballroom
8:30 AM	Engaging School Nurses as Advocates and Educators for Tick and Mosquito IPM Kathy Murray, Maine Department of Agriculture	
8:50 AM	EPA Update Andrea Szylvian, US EPA, Region 1	
9:10 AM	The Northeast Center for Excellence in Vector-Borne Diseases Theodore Andreadis, Center for Vector Biology and Zoonotic Diseases, The Connecticut Agricultural Experiment Station	
9:30 AM	The Basics of Shoreline Protection Peter Hanrahan, CPESC, EJ Prescott	
9:45 AM	Coffee Break	Atlantic Room

Tuesday, December 5, 2017

Sixth Session

Regency Ballroom

Moderator: Jennifer Forman-Orth

- | | | |
|----------|---|------------------|
| 10:00 AM | Remembering Daniel Manley Jobbins
Ernest Ruber, Professor Emeritus,
Northeastern University | |
| 10:30 AM | Northern Range Expansion of the Asian Tiger Mosquito (<i>Aedes albopictus</i>): Analysis of Mosquito Data from Connecticut, USA
Philip M. Armstrong, Theodore G. Andreadis, John J. Shepard, Michael C. Thomas, The Connecticut Agricultural Experiment Station | |
| 10:50 AM | <i>Aedes albopictus</i> on the South Coast – An Update
Todd B. Duval and Priscilla Matton, Bristol County Mosquito Control Project | |
| 11:10 AM | The Influence of Climate Change and Socio-Economical Factors on <i>Aedes albopictus</i> in Northeastern US Cities
Eliza Little, Columbia University | |
| 11:30 AM | Vendor's Luncheon
Moderator: Priscilla Matton | Regency Ballroom |
| 12:00 PM | Commissioners and Superintendent Meet and Greet | Halifax Room |

Tuesday, December 5, 2017

Seventh Session

Regency Ballroom

Moderator: Chuck Lubelczyk

- 1:00 PM **Rising Tick Populations and Changing Patterns of Tick-Associated Diseases in the Northeastern US**
Goudarz Molaei, Center for Vector Biology and Zoonotic Diseases, Department of Epidemiology and Microbial Diseases, The Connecticut Agricultural Experiment Station, Yale School of Public Health
- 1:15 PM **Spatiotemporal Dynamics of *Borrelia burgdorferi* Infection in Black-legged Tick *Ixodes scapularis* in Connecticut**
Eliza Little, Center for Vector Biology and Zoonotic Diseases, The Connecticut Agricultural Experiment Station
- 1:30 PM **Tick IPM Toolbox: An Update on Tick Control**
Kirby Stafford, Center for Vector Biology and Zoonotic Diseases, The Connecticut Agricultural Experiment Station
- 1:45 PM **Charismatic and Complicit: Impacts of Increased Abundances of White-tailed Deer on Ticks and Tick-borne Diseases**
Scott Williams, Center for Vector Biology and Zoonotic Diseases, The Connecticut Agricultural Experiment Station
- 2:00 PM **Effects of Host Diversity and Abundance on Dilution of *Borrelia burgdorferi* in Residential and Woodland Habitats**
Megan Linske, Department of Entomology, Connecticut Agricultural Experiment Station

Tuesday, December 5, 2017

- 2:15 PM **Current Status for Vaccination of Lyme Disease**
Sam Telford, Cummings School of Veterinary Medicine, Tufts University
- 2:30 PM **Changing Distribution and Overwintering Potential of *Ixodes scapularis* and *Amblyomma americanum* in New England**
Charles Lubelczyk, Maine Medical Center Research Institute
- 2:45 PM **Distribution of *Ixodes uriae* and *Borrelia garinii* in the Gulf of Maine and Maritime Canada**
Margaret Welch, Maine Medical Center Research Institute
2016 Jobbins Scholarship co-recipient
- 3:00 PM Coffee Break Atlantic Room
- Eighth Session Regency Ballroom
Moderator: Tim McGlinchy
- 3:30 PM **Regulation of Salt Marsh Mosquito Populations by the 18.6-year Lunar-nodal Cycle**
Ilia Rochlin, Tom Iwanejko, and James T. Morris, Division of Vector Control, Suffolk County DPW
- 3:50 PM **Mosquito Control for the Pioneer Valley**
Greg Lewis, Franklin Regional Council of Governments

Tuesday, December 5, 2017

4:10 PM

Mosquito Diversity at Four Southern Maine Coastal Sites – York and Sagadahoc Counties, 2017

Elizabeth Henderson, Sara Robinson, and Charles Lubelczyk, Maine Medical Research Center Institute

4:30 PM

Poster Session

Regency Ballroom

Early Season Treatments Using Natular™ G30 – 2017 Update

Frank H. Cornine III and David Mullins, Central Mass. Mosquito Control Project

Drain and Fill or Wetland Restoration?

Roger Wolfe and Michael Krueger, CT DEEP WHAMM Program

Incidence of Avian Pox DNA in Mosquitoes from South and Central Maine

Peter Milligan, Aaminah Ameen, Tiffany Labbe, Tonia Roberson, Nallie Thor, and Charles Lubelczyk, University of Maine at Augusta, ME Medical Research Center

Wetland Restoration Projects and Beaver Deceivers

Katrina Proctor, Wetlands Project Coordinator, Central Mass. Mosquito Control

Evaluating the Impact of Hydrological Alterations on Salt Marsh Sustainability in a Changing Climate

Megan Tyrell and Tonna-Maire Surgeon-Rogers, Waquoit Bay National Estuarine Reserve. Presented by Gabi Sakolsky, Cape Cod Mosquito Control Project

Tuesday, December 5, 2017

4:30 PM	Poster Session (cont.)	Regency Ballroom
	The Impact of a Common Parasitic Infection in <i>Aedes aegypti</i> on its Control Using <i>Bacillus thuringiensis israelensis</i> HeeJung Ko and Dawn Wesson, Tulane University	
	Tire Teeth Tim Welch & Ed Storonsky, Central Mass. Mosquito Control Project	
6:30 PM	Silent Auction / Reception	Regency Ballroom Reception Area
7:30 PM	NMCA Banquet	Regency Ballroom
<u>Wednesday, December 6, 2017</u>		
	<u>Ninth Session</u>	Regency Ballroom
	Moderator: Emily Sullivan	
9:00AM	Tigers Undercover: Controlling <i>Aedes albopictus</i> larvae in corrugated extension spouts Nick Indelicato and Işık Ünlü, Mercer County Mosquito Control	
9:20 AM	Source Reduction and the EPA's WasteWise Program in Central Massachusetts. Timothy D. Deschamps, Central Mass. Mosquito Control Project	
9:40 AM	Using Natular™ to Control <i>Coquilleltidia perturbans</i>, a Potential Bridge Vector of EEE Virus in the Northeast Derek Drews, Clarke Mosquito	

Wednesday, December 6, 2017

10:00 AM Coffee Break
Regency Ballroom reception area

Tenth Session Regency Ballroom
Moderator: Chris Horton

10:30 AM **Development of an Effective Novel
Copepod-Based Mosquito Ovitrap**
Sophie Wang, Waterford High School

10:50 AM **Exploring Bladderwort Predatory Plants as
a Novel Biocontrol Method for
Northeastern Vectors**
Nelle Couret, Department of Biological
Sciences, University of Rhode Island

11:10 AM **Drain and Fill or Wetland Restoration**
Roger Wolfe, CT DEEP, WHAMM Program

11:30 AM **“Swords to Plowshares” Using Federal
Surplus for Mosquito Control**
Chris Horton, Berkshire County Mosquito
Control Project

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 64th annual meeting at the Crowne Plaza Nashua in Nashua, NH from December 3-5, 2018.



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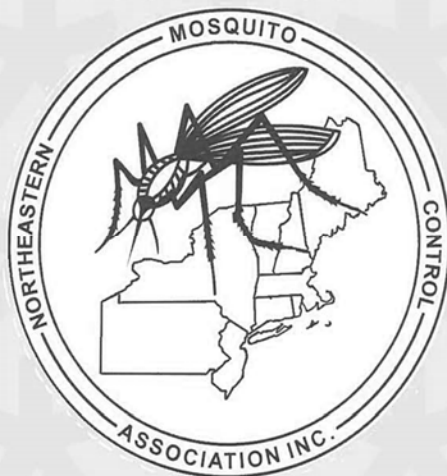
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64th Annual Meeting

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NMCA SCHOLARSHIP & AWARD INFORMATION

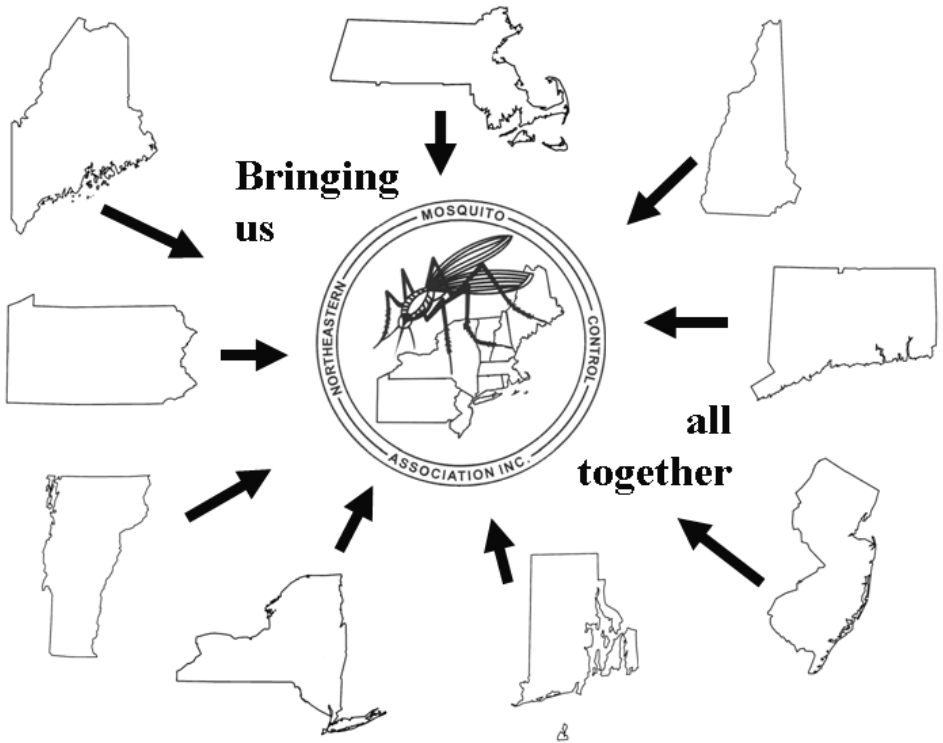
The NMCA Executive Board wants to remind everyone that it's never too early to begin thinking about the various scholarships, grants and awards that the NMCA offers to the membership each year:

- **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>

NORTHEASTERN MOSQUITO CONTROL ASSOCIATION, INC.

★ mosquito control for health and comfort ★



It's your Association – get involved!!

**VISIT US ON THE WEB AT
www.nmca.org**

NMCA ANNUAL DUES FORM

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PAYMENT ENCLOSED

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NAME: _____

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Annual NMCA dues are \$30.00/year – **PLEASE NOTE: REGISTRATION AT ANY ANNUAL MEETING INCLUDES NMCA DUES FOR THE FOLLOWING YEAR**

PLEASE REMIT COMPLETED FORM & PAYMENT TO:

John Shepard

PO Box 6522

Hamden, CT 06517

NORTHEASTERN MOSQUITO CONTROL ASSOCIATION, INC.

PAST PRESIDENTS AND ANNUAL MEETINGS

1955-56	Joseph F. Pannone	Amherst, MA	February 2 - 3, 1955
1956-57	Joseph F. Pannone	Waltham, MA	January 19 - 20, 1956
1957-58	Lewis F. Wells, Jr.	Providence, RI	February 14 - 15, 1957
1958-59	Lewis F. Wells, Jr.	Waltham, MA	January 30 - 31, 1958
1959-60	Dr. Hugo Jamnback	Boston, MA	February 19 - 20, 1959
1960-61	Robert L. Armstrong	Boston, MA	March 27 - 30, 1960
1961-62	Robert L. Armstrong	Waltham, MA	February 15, 1961
1962-63	Cmdr. John W. Rehn	Natick, MA	February 14 - 15, 1962
1963-64	Cmdr. John W. Rehn	Waltham, MA	February 19 - 20, 1963
1964-65	Robert W. Spencer	Bridgewater, MA	November 18 - 19, 1964
1965-66	Robert W. Spencer	Seekonk, MA	November 3 - 5, 1965
1966-67	Joseph F. Pannone	Seekonk, MA	November 2 - 4, 1966
1967-68	Joseph F. Pannone	Seekonk, MA	October 4 - 6, 1967
1968-69	Leroy Kinsey	Seekonk, MA	October 23 - 25, 1968
1969-70	Leroy Kinsey	Seekonk, MA	November 15 - 17, 1969
1970-71	Frederick J. Danos	Boston, MA	November 16 - 18, 1970
1971-72	Robley W. Nash	Danvers, MA	November 15 - 17, 1971
1972-73	Robley W. Nash	Danvers, MA	November 13 - 15, 1972
1973-74	Robert Ostergaard	Framingham, MA	October 29 - 31, 1973
1974-75	Robert Ostergaard	Bedford, NH	October 29 - 31, 1974
1975-76	John J. McColgan	Danvers, MA	October 15 - 17, 1975
1976-77	John J. McColgan	Danvers, MA	October 20 - 22, 1976
1977-78	Eugene Marx	Danvers, MA	October 12 - 14, 1977
1978-79	Eugene Marx	Grossinger, NY	November 1 - 3, 1978
1979-80	David H. Colburn	Pittsfield, MA	October 10 - 12, 1979
1980-81	David H. Colburn	Sturbridge, MA	October 29 - 31, 1980
1981-82	Norman R. Dobson	Newport, RI	November 2 - 4, 1981
1982-83	Norman R. Dobson	Hyannis, MA	September 27 - 29, 1982
1983-84	Joseph Sanzone	Southampton, NY	October 17 - 19, 1983
1984-85	Joseph Sanzone	Worcester, MA	October 15 - 17, 1984
1985-86	John Kuscke	Portsmouth, NH	October 21 - 23, 1985
1986-87	John Kuscke	Sturbridge, MA	October 6 - 8, 1986
1987-88	Malcolm C. Henry	Mystic, CT	October 5 - 7, 1987
1988-89	Malcolm C. Henry	Topsfield, MA	September 13, 1988
1989-90	David Scott	Pittsfield, MA	October 2 - 4, 1989
1990-91	David Scott	Burlington, VT	October 29 - 31, 1990
1991-92	Kenneth W. Ludlam	Plymouth, MA	November 4 - 6, 1991
1992-93	Kenneth W. Ludlam	Newport, RI	November 16 - 18, 1992
1993-94	Walter G. Montgomery	Salem, MA	November 15 - 17, 1993
1994-95	Walter G. Montgomery	Portsmouth, NH	December 5 - 7, 1994
1995-96	Robert Kent	Hyannis, MA	November 13 - 15, 1995
1996-97	Robert Kent	Mystic, CT	December 9 - 11, 1996
1997-98	Paul Capotosto	Sturbridge, MA	December 8 - 10, 1997
1998-99	Paul Capotosto	Lincoln, NH	December 7 - 9, 1998
1999-00	Sarah MacGregor	Plymouth, MA	December 6 - 8, 1999
2000-01	Sarah MacGregor	Newport, RI	December 4 - 6, 2000
2001-02	John J. Smith	Salem, MA	December 3 - 5, 2001
2002-03	John J. Smith	Mystic, CT	December 2 - 4, 2002
2003-04	Curtis Best	Hyannis, MA	December 1 - 3, 2003
2004-05	Curtis Best	Newport, RI	December 6 - 8, 2004
2005-06	Timothy Deschamps	Northampton, MA	November 28 - 30, 2005
2006-07	Timothy Deschamps	Saratoga Springs, NY	November 27 - 29, 2006
2007-08	Emily DW Sullivan	Plymouth, MA	December 3 - 5, 2007
2008-09	Emily DW Sullivan	Providence, RI	December 8 - 10, 2008
2009-10	Wally Terrill	Sturbridge, MA	December 2 - 4, 2009
2010-11	Wally Terrill	Hyannis, MA	December 6 - 8, 2010
2011-12	Roger Wolfe	Plymouth, MA	December 5 - 7, 2011
2012-13	Roger Wolfe	Mystic, CT	December 3 - 5, 2012
2013-14	Timothy McGlinchy	Hull, MA	December 9-11, 2013
2014-15	Timothy McGlinchy	Cambridge, MA	December 8-10, 2014
2015-16	Priscilla Matton	Newport, RI	December 7-9, 2015
2016-17	Priscilla Matton	N. Falmouth, MA	December 5-7, 2016