Friday	FRIDAY APRIL 21, 2016
	NENHC 2017 Field Trips: Pre-registration required
9:00 AM–Noon	**Mt Higby Talus Base Area,** led by Sam Saulys This trip will explore the talus base of Mt Higby for plant species more commonly found in the north. The cold chutes in the talus can result in a microclimate 30 degrees F below ambient temperature. If participants have time, energy, and interest, a trek to the ridgeline via Preston Notch is possible. Directions to Mt Higby: From the north, take I-91 to exit 19. Turn left onto Baldwin Avenue, go under the highway, and left onto Preston to its end. From the south, take exit 18 off I-91 and merge onto rt 66/691 eastbound. Take exit 12 (Preston Ave) and turn left at the end of the ramp. Go .8 miles and turn right before the I-91 underpass. Continue to the end of the road and park. For GPS users, the closest address is 639 Preston Avenue, Meriden. As space for cars is limited, please carpool. **Meet at Conference registration area at 8:45 AM** and carpool to the site, which is located about 15 minutes away.
9:15–11:15 AM	**Indian Hill Cemetery Tree Walk ,** led by Frank Kaputa, co-chairman of Connecticut's Notable Trees Project Frank will lead a walk through the cemetery which will highlight the site's significant trees. The walk will include tree identification, ecology, and other interesting information about 15 to 20 of the over 30 tree species at Indian Hill. The walk will be roughly one mile long and last about 2 hours. The 43-acre cemetery, established in 1850, includes one of the highest outlooks in Middletown and overlooks the majestic Connecticut River Valley including the Arrigoni Bridge and much of Middletown. **Meet at Conference registration area at 9:00 AM** and carpool to the site, which is located about 10 minutes away.
9:45 AM–Noon	**Knowing and Enjoying the Lower Connecticut River ,** led by Captain Mark Yuknat and his wife, Mindy who own and operate the Riverquest Spend some time on the Connecticut River aboard the 64' eco-friendly Riverquest vessel enjoying commentary on the history and ecology of the river. Learn about the geology of the river valley, the birds and fishes, and some history of the river's shipping and commercial importance. Hear the latest news and discussion about the health of the river. The cruise will depart from Eagle Landing State Park, Haddam, CT and will cruise south encompassing the towns of Haddam, East Haddam, Chester, Deep River, Essex, Lyme, and Old Lyme. April on the river can be windy and cold participants are advised to dress warmly this trip is about 2-2 ¼ hours long. Captain Mark Yuknat has many years of experience as a licensed US Coast Guard Captain on the lower Connecticut River. He knows every nook and cranny of the river, has knowledge of the river's ecology and natural history, and, he also has a keen eye for spotting river wildlife. Mindy is also a licensed US Coast Guard Captain and she aptly assists Captain Mark with his educational narration, assuring that nothing important will be missed! More information and directions can be found on their web site at http://www.ctriverquest.com. **$25 per person fee to be paid on site before the start of the trip.** **Meet at Eagle Landing State Park by 9:30 AM** to allow for time to pay and board.
10:00–11:30 AM	**Sessions Woods Management Area and Museum-Field Trip,** led by Peter Picone, DEEP Wildlife Biologist Wildlife habitat enhancement practices and principles are basic and complex. Peter will share with you how to improve biological diversity by managing and planting native vegetation on the 764-acre Sessions Woods Wildlife ManagementArea . He will discuss the importance of providing seasonal food and cover for a variety of wildlife including beneficial insects. He will share over 30 years of wildlife and habitat management experience. **Those wishing to carpool should meet at Conference registration area at 9 AM**.

Friday	**NENHC 2017 Field Trips: Preregistration required**
10:00–11:00 AM	**Using Silviculture to Manage Pitch Pine Forests,** led by Christopher Martin, State Forester and Director, Division of Forestry, Bureau of Natural Resources, CT Department of Energy and Environmental Protection Participants will be led on a walk through a recently completed timber harvest at the Wharton Brook Pitch Pine Natural Area Preserve, with discussion on the logistics of managing a logging operation in a suburban recreational area. Meet in the parking area of Wharton Brook State Park (next to the pond). The Park entrance is located on the east side of Rt. 5 (Washington Avenue) in North Haven, CT.
1:00–3:30 PM	**Mt Higby Trail/Summit Area,** led by Sigrun Gadwa, Ecologist and Soil Scientist, Carya Ecological Services, LLC, and Board member of the Connecticut Botanical Society Along the relatively short (20 minutes) ascent trail, expect to find two white spring ephemerals: Rue Anemone and Plantain-leaved Pussytoes (Antennaria plantaginifolia). Sugar Maple is the dominant tree and Hop Hornbeam is common. Once the summit is reached, over 1000 feet in elevation, the landscape changes dramatically. Broad expanses of "glade" critical habitat are dominated by Penn Sedge. Proceeding northerly, the long ridge becomes narrow. It is quite level with gentle ups and downs. The craggy "summit" (a CT DEEP Critical Habitat) is dotted with Red Cedars and other interesting ridge flora, with an affinity for the sub-acidic calcium-rich soils that weather from traprock (basalt). Dwarf Saxifrage will be conspicuous in late April along the ridge, and Arrow Violets will be spotted. Invasive plants have historically been scarce here. A lovely trail to hike. Meet at Conference registration area at 12:45 pm and carpool to the site, which is located about 15 minutes away.
1:00–3:00 PM	**Behind the Scenes Tour of the Connecticut Agricultural Experiment Station in New Haven,** led by CAES staff The tour itinerary is as follows: 1:00 p.m.-1:20 p.m. Dr. Theodore G. Andreadis, Director “Welcome” Jones Auditorium, Britton Laboratory 1:25 p.m.-1:45 p.m. Mr. Gregory Bugbee Department of Environmental Sciences “Soil Testing and Invasive Aquatic Plants” Slate Laboratory, Room 108 1:50 p.m.-2:05 p.m. Dr. Claire Rutledge Department of Entomology “Emerald Ash Borer in Connecticut” Jenkins-Waggoner Laboratory, Room 204 2:10 p.m.-2:30 p.m. Dr. Gale Ridge Department of Entomology “Insect Inquiry Office” Jenkins-Waggoner Laboratory, Insect Inquiry Office 2:35 p.m.-2:55 p.m. Dr. Yonghao Li and Ms. Lindsay Patrick Department of Plant Pathology and Ecology “Plant Disease Information Office, PDIO” Jenkins-Waggoner Laboratory, Plant Disease Information Office 3:00 p.m.-3:20 p.m. Dr. Jason White, Vice-Director Department of Analytical Chemistry “Food Safety and Environmental Monitoring” Johnson-Horsfall Laboratory, Analytical Chemistry Laboratories To start at the Jones Auduitorium, Britton Laboratory at the Connecticut Agricultural Experiment Station in New Haven. **Those wishing to carpool from the conference venue, can meet at registration area at 12:15 PM**.

Friday	**NENHC 2017 Field Trips: Preregistration required**
1:00 PM	**Dinosaur State Park,** led by Park staff, who will provide a tour of the museum. Participants can explore the the trails and other activities on their own. Step Back Into The Early Jurassic and visit one of the largest dinosaur track sites in North America. Discovered in 1966, Dinosaur State Park sits on 60 acres. Inside the geodesic dome, visitors can view 600 early Jurassic dinosaur footprints preserved in gray sandstone. These tracks were left behind on the edge of an ancient lakeshore by a group of dinosaurs similar to Dilophosaurus. The Park also features exhibits, a Discovery Room filled with self-guided activities, a bookshop and 2.5 miles of hiking trails. The museum is surrounded by the Arboretum of Evolution, a collection of 250 plants whose families trace their origins to the Mesozoic Era. The Park is a registered National Landmark. $6 per person fee to be paid on site before the start of the tour. **Those wishing to carpool should meet at Conference registration area at 12:30 pm; otherwise meet at the Park.**
2:00–3:30 PM	**Yale Peabody Museum Tour,** led by Peabody collections and education staff The Yale Peabody Museum of Natural History, celebrating 150 years in 2016, is one of the oldest academic natural history museums in the country. It has been called the "Sistine Chapel of evolution". The Museum has over 13 million specimens across the disciplines, with only 0.04% of them on display. Join us on a behind-the-scenes tour of the botany/herbarium, entomology, and ornithology collections, which will include some 19th-century specimens. **$10 per person fee to be paid on site before the start of the tour.** Meet at the lobby of the main entrance of the Yale Peabody Museum.

Friday	FRIDAY APRIL 21, 2016
	NENHC 2017 Afternoon Workshops
1:30–3:30 PM Room A	**Start Your Own Salamander Brigade: Bringing Grassroots Amphibian Conservation to Your Town,** led by Brett Thelen, Science Director, Harris Center for Conservation Education As the earth thaws and spring rains drench New England, thousands of salamanders, frogs, and toads make their way to vernal pools to breed. Many are killed when their journeys take them across busy roads. Studies have shown that this road mortality can have a significant impact on local amphibian populations, and that efforts to protect migrating amphibians can reverse the negative trend. Before towns can consider solutions like focused land protection efforts, amphibian tunnels, or temporary "Big Night" detours, however, they must first locate the amphibian road crossing hotspots in their communities and gain public support for amphibian conservation initiatives. Enter the Salamander Crossing Brigades, in which trained volunteers move migrating amphibians across roads by hand during one or more "Big Nights" each spring, keeping count as they go. This workshop will teach you what you need to know to start a grassroots Crossing Brigade effort in your town—from finding crossing sites and communicating with volunteers to staying safe on the roads.
2:00–5:00 PM Room C	**The Use of Triggered Cameras in Wildlife Research,** led by Paul Hapeman, Assistant Professor, Biology Department, Central Connecticut State University, and Patrick O'Brien, Master's degree candidate, Biology Department, Central Connecticut State University The workshop will introduce participants to triggered cameras and how they can be used in wildlife research with an emphasis on mammals. Topics covered include questions that can be addressed using camera surveys, differences in types of cameras, and practical considerations with survey design. Participants will also gain hands-on experience with setting cameras at a local field site.
2:00–5:00 PM Room K	**Using Open Source GIS Software in the Environmental Sciences,** led by Larry Spencer, Professor Emeritus of Biology, Department of Biology, Plymouth State University This workshop will introduce the participants to QGIS, an open source GIS software, that does most of the tasks required of a GIS program. Participants will be asked to supply their own laptops, but since QGIS software runs on both Macs and PCs and works the same on both, there is no problem as to which system the participant brings to the workshop. The workshop director will supply both the software and sample GIS files. The workshop will cover the basic fundamentals of using the software, but not the basics of what GIS is. If time permits the participants will get a chance to download information towards their own projects.
4:00–5:00 PM Room J	**Head-Starting Turtles: Practices and Considerations,** led by Brian Bastarache, Bristol County Agricultural School This workshop will introduce the participants to the practical considerations involved in head-starting turtles, or protecting eggs and rearing hatchlings to the point where they are no longer as vulnerable to predators prior to releasing them, an important strategy for ensuring successful restoration efforts. Will cover topics related to space, utilities, biosecurity, etc.
5:00–6:00 PM Room A	**Getting the most out of the Biodiversity Heritage Library**, led by Patrick Randall, Community Manager, Expanding Access to Biodiversity Literature, Ernst Mayr Library, Museum of Comparative Zoology, Harvard University The Biodiversity Heritage Library (BHL) is a consortium of major natural history museum libraries, botanical libraries, and research institutions that cooperate to digitize and make accessible the legacy biodiversity literature. Open access to the resources in BHL supports the work of scientists, researchers, and students in their home institutions and throughout the world. This workshop explores BHL's collections, how to search for material, and presents opportunities for non-BHL members to contribute content through a federal grant called Expanding Access to Biodiversity Literature.

Friday	NENHC 2017 Friday Evening Workshops
7:00–10:00 PM Room J	**Aquatic Flowering Plants: The Potamogetonaceae and Lentibulariaceae,** led by C. Barre Hellquist, professor emeritus of biology at Massachusetts College of Liberal Arts, and C. Eric Hellquist, assistant professor at the State University of New York Oswego The evening workshop will concentrate on the identification and distribution of the Potamogetonaceae and Lentibulariaceae of the Northeast. These families contain some of the more difficult aquatic species to identify. The Potamogetonaceae consists of Potamogeton (27 species), Stuckenia (2 species) and Zannichellia. This family consists of several rare species, one invasive species, and numerous hybrids. Many of the pondweeds are rare, one is invasive, and many hybrids occur, making identification difficult. The Lentibulariaceaeis a family of carnivours plants containing 3 genera (Genlisea, Pinguicula, and Utricularia). This workshop will review the major characteristics and ecology of the species in these two families with a photographic presentation and herbarium specimens. Handouts will be provided, and participants are encouraged to bring a flora with the species illustrated, especially Crow and Hellquist, Vols. I and II if you have them.
7:00–8:00 PM Room C	**Managing Hemlock Woolly Adelgid,** led by Patrick Horan, Saving Hemlocks, Sapphire NC The Hemlock Woolly Adelgid (Adelges tsugae) is an introduced insect that threatens our native eastern hemlocks (Tsuga canadensis and Tsuga caroliniana). Over the century since its introduction (~1911 in Richmond Virginia), Hemlock Woolly Adelgid (HWA) has advanced throughout the southeastern hemlock range - leaving a swath of hemlock death and environmental disruption. Its northward advance has been slowed by colder winter temperatures, but it continues to advance slowly into our northernmost states. This workshop will build on several decades of scientific research on HWA, as well as extensive hemlock field experience in the southern US. It will explore options and strategies for both individual property owners and community-based groups to protect hemlocks and hemlock ecosystems from destruction by HWA. We have learned from our "Southern experience" that HWA can be controlled by a combination of short-term chemical and long-term biological control agents. And the possibility exists that early intervention with biological control agents will be sufficient to protect hemlock ecosystems in the early stages of the northward HWA advance.
7:00–8:00 PM Room K	**Outdoor Lighting – The Ecological Consequences of Light Pollution,** led by Leo Smith, Northeast Regional Director, International Dark Sky Association Outdoor lighting creates challenges to the ecology, from disruption of foraging behavior, to migration, orientation and homing of birds, to influencing reproductive behavior, courtship and spawning, to increasing predatory risks. These ecological consequences of light pollution can be the result of either direct or ambient illumination. Using controls to govern the amount of light, its shielding, time of use, and color of light can help mitigate the ecological challenges resulting from outdoor lighting. New LED outdoor lighting can pose special concerns because of the blue-rich spectrum lighting. The presentation will include a Power Point presentation, followed by a question and answer session.
7:00–8:00 PM Room A	**Saving Our Flora: Successful Homegrown Strategies (A working group)**, led by Grace Markman, Artist/educator, naturalist and activist This workshop will explore innovative, successful native plant conservation strategies completed by both individuals and small groups through a short power point presentation. New York City and State efforts will also be shared. Participants will then be breaking up into small groups afterwards to share their efforts at conservation and brainstorm new ones. We will gather back together to share our ideas and discuss specific methods that may help to implement them. An email working group will be created to keep these new ideas on track and moving forward.

SAT MORNING	SATURDAY APRIL 22, 2017			
7:00–5:00	Conference Registration Open			
7:00–8:00	Set up for exhibitors			
8:00	Exhibitions Open			
7:30–8:30	Set up for Day 1 scientific posters			
7:45–8:30	PowerPoint preview/technology check for oral presentations - in the room your talk will be given			
8:30–10:00	**Concurrent Sessions - Morning I**			
	Room C	Room D	Room E	Room F
	By the Water's Edge: Floodplain Restoration, Urban Wetlands, and Lake Pollution	**Terrestrial Botany and Plant Ecology I**	**Terrestrial Insect Ecology, Conservation, and Natural History I**	**Pitch Pine Forests of New England**
Moderator	**Erik Kiviat**	**John Burns**	**Rob Clark & Michael Singer**	**Christopher Martin**
8:30–8:35	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
8:35–8:55	**Danielle Garneau** Microplastic Pollution in Lake Champlain	**Richard Gardner** Using Ecological Utility to Define Native Plants	**Michael Singer** Forest Caterpillars: How Dietary Specialization Mediates Their Susceptibility to Predators	**Emery Gluck** Historical Occurence and Uses of Pitch Pine in New England
8:55–9:15	**Erik Kiviat** Flora and Vegetation of an Industrial Area in the New Jersey Meadowlands	**Sarah Bois** It's All in the Timing; Investigating Species-specific Phenological Strategies of Dominant Temperate Shrubs	**Brigette Zacharczenko** What's Really on the Menu? An Evaluation of Host-Plant Literature and Diet Breadth of Caterpillars	**Adrian Arango** Southern Pine Beetle Expansion into Pitch Pine Areas
9:15–9:35	**Matthew Opdyke** Wetland Plant Succession in a Restored Floodplain	**Lori Petrauski** Changes in Flowering Phenology Over 125 Years in the Central Appalachians	**Peter Burn** Putting all your Eggs in a Small Number of Baskets: Daily Occurrence of Operophtera (Lepidoptera: Geometridae) in Carlisle, MA, 2012–2016	**Claire Rutledge** Southern Pine Beetle in Connecticut: Discovery, and Distribution
9:35–9:55	Q & A	**Karro Frost** Mapping the Invasive Vine Hardy Kiwi in Western Massachusetts	**Victor Demasi** A 23-year Field Study of Connecticut's 3 Most Common Swallowtail Butterflies: *Papilio glaucus* (Tiger Swallowtail), *Papilio troilus* (Spicebush Swallowtail), and *Papilio polyxenes* (Black Swallowtail)	**Gerard Milne & Emery Gluck** Using Silviculture to Perpetuate Pitch Pine Communities in Connecticut
9:55–10:00		Q & A	Q & A	Q & A
10:00–10:50	**Morning Poster Session and Reception with light snacks & beverages**			

Note: abstracts for all oral and poster presentations are available on the conference website: you can access them from the left-hand menu of the website home page under Program. We will also have a printed reference copy of all the abstracts available for participant perusal at the registration table during the conference.

10:50–12:00	**Saturday Concurrent Sessions - Morning II**			
	Room C	Room D	Room E	Room F
	White-tailed Deer: Monitoring and Impacts	**Ecology and Systematics of Ferns**	**Terrestrial Insect Ecology, Conservation, and Natural History II**	**Wildlife Forensics and Population Genetics**
Moderator	**Peter Palmiotto**	**Jack Tessier**	**Rob Clark & Michael Singer**	**Nicole Chinnici**
10:50–10:55	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:55–11:15	**Kira Broz** How White-tailed Deer Overabundance Changes Plant Communities: Baseline Exclosure Data and Methodologies	**Jack Tessier** Fronds of *Dryopteris intermedia* Need to be Prostrate to Reduce Winter Damage	**Samantha Sawyer** Behavioral Response of *Nasonia vitripennis* (Hymenoptera) when Exposed to Different Species of Carrion	**Michelle Kraczkowski** Post-glacial Colonization Path of the Blacknose Dace into Northeastern North America
11:15–11:35	**Christopher Johnson** Evaluating the Accuracy of Camera Trapping Methods for Open Populations of White-tailed Deer	**Joanne Sharpe** Annual Variation in Plant and Leaf Characteristics of Three Common Ferns of the Northeastern Forest	**Rob Clark** Food Resources Alter the Community Composition of Arboreal-Foraging Ants in Temperate Forests	**T.J. McGreevy** Conservation Genetic and Genomic Tools to Inform Management Decisions for New England Cottontail
11:35–11:55	**Hana Kiewicz-Schlansker** Controlling Deer and Beech: Testing the Effectiveness of Fencing, Herbicide, and Mechanical Treatments in Patch Cuts of Northern Hardwood Forest, Gilsum, NH	**Susan Fawcett** Biogeography, Taxonomy, and Evolutionary Affinities of Northeastern Thelypteridaceae	**Jennifer Apple** Raids and Relocations: Insights from Long-term Monitoring of Interactions Between Slavemaking Ants and Their Hosts	**Christopher O'Brien** The Future of Wildlife Forensic Education: Connecting the Needs of Working Labs with Research Students
11:55–12:00	Q & A	Q & A	Q & A	Q & A
12:00–1:30	**Lunch (included for those who pre-registered for the conference)**			

SAT AFTER LUNCH	SATURDAY APRIL 22, 2017				
1:10–1:30	PowerPoint preview/technology check for oral presentations - in the room your talk will be given				
1:30–3:30	**Concurrent Sessions - Afternoon I**				
	Room C	Room D	Room E	Room F	Room J
	Herbarium Collections: A Resource for 21st Century Botany, Ecology, and Conservation	**Conservation and Ecology of Reptiles and Amphibians I**	**Conservation Lessons and Ecological Research from Afar: Global-scale Biodiversity Conservation**	**Aquatic Plant Distribution and Conservation**	**Discoveries in New England Freshwater and Marine Animals**
Moderator	**Timothy Whitfeld & Patrick Sweeney**	**Brian Bastarache**	**Thilina Surasinghe**	**Matt Hickler**	**Tom Trott**
1:30–1:35	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:35–1:55	**Patrick Sweeney** The Consortium of Northeastern Herbaria: Facilitating Research and Conservation	**Anne Stengle** Conservation of the Timber Rattlesnake in Massachusetts	**Gene Albanese** A Network Model Framework for Prioritizing Wetland Conservation in the Great Plains: Toward a Theory of Connectivity among Ephemeral Depressional Wetlands	**Robert Naczi** Conservation of Hudson River Intertidal Plants: Current Status, Threats, and Recommendations	**Harry Meyer** New England Terrestrial Water Bears
1:55–2:15	**Mason Heberling** Old Collections with New Uses: The Roles of Herbaria in the Anthropocene	**Jacob Kubel** Monitoring Eastern Spadefoot in New England: Design and Early Results of the Massachusetts Plan	**Thomas Philbrick** Neotropical Riverweeds (Podostemaceae): Confusing Taxonomy Obscures Extinction Threats	**Eric Hellquist** Forty Years of Change in the Vascular Aquatic Flora of Ossipee Lake, NH	**Emma Perry** The Distribution of Marine Tardigrades in the Intertidal Zone of Allen Island, Maine
2:15–2:35	**Robert Jarvis** Using Herbarium Specimens to Document Phenological Change in Central NY Woodland Plants	**George Bancroft & Justin daSilva** Initial Assessments of Anuran Communities at Southeastern Massachusetts Sites	**Hans Gonzembach** The Effects of Human Encroachment On Shorebird Nests	**Matt Hickler** Lakes and Ponds of the Worcester Plateau Ecoregion: Patterns of Aquatic Plant Diversity and Species Distribution	**Thomas Trott** Feeding by *P. caudatus* (Cephalorhycha: Priapulidae): Effects of Seasonal Temperature Change and Molting
2:35–2:55	**Robert Naczi** Sharing Hidden Treasures: Digitization of Original Archival Materials Mounted on Herbarium Specimens	**Kinga Stryszowska-Hill** Species Distribution Modeling of the Threatened Blanding's Turtle (*Emydoidea blandingii*) in NY	**William Langbauer** Habitat Destruction by Elephants? Questionable Assumptions in Wildlife Management	**Eric Hellquist** Potamogetonaceae Hybrids of Northeastern United States	**Christopher Bloch** Environmental Correlates of Abundance and Impact of the Invasive Asian Shore Crab (*Hemigrapsus sanguineus*)
2:55–3:15	**Sean Robinson** The SUNY Virtual Herbarium Network: Increasing Access and Improving Botanical Education	**Thomas Tyning** Wood Turtle Movements in a Small Berkshire Stream	**Thilina Surasinghe** Conservation of Sri Lankan Turtles: Population Status Outside the Protected Area Network	**Sean Regalado** Predicting the Presence/Absence of Eurasian Watermilfoil and Variable Leaf Milfoil in Adirondack Waters Using Freely Accessible GIS Data	**Kelly Flanders** Detecting Spiny Dogfish in Gray Seal Diets
3:15–3:20	Q & A	Q & A	Q & A	Q & A	Q & A
3:20–4:00	**Afternoon poster session and reception withlight snacks and beverages**				

4:00–5:30	**Saturday Concurrent Sessions - Afternoon II**			
	Room C	Room D	Room E	Room F
	Strategy for Conserving Ash Trees in the Northeast	**Floristic Studies I**	**Ecology of Bats**	**Old-Growth Forests of the Northeast**
Moderator	**Brian Boom**	**Scott Ward**	**Kathleen O'Connor**	**Bill Keeton**
4:00–4:05	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
4:05–4:25	**Brian Boom** Conserving Ash Trees in the Northeastern United States: A Multi-disciplinary Approach	**Richard Gardner** Two Small-scale Landscape Models of Invasive Plant Spread	**Katherine Moran** State of the Bats in Connecticut	**Charlie Canham** Potential Expansion of Late Successional and Old-growth Stands in the Northern Forest Landscape under Current and Future Logging Regimes
4:25–4:45	**Daniel Atha** The Distribution of *Fraxinus profunda* (Pumpkin Ash) in New York	**Daniel Waldhorn** Using Remotely Sensed Data to Delineate Phragmites in the Hudson River	**Carl Herzog** White-nose Syndrome: The Future of Some Severely Affected Bat Species	**Bill Keeton** Old-growth Forests and Streams, and Managing Forests for Old-growth Characteristics
4:45–5:05	**Julian Campbell** A Provisional Reassessment of Taxonomic Variation among New England Ashes (Oleaceae: *Fraxinus*)	**Emily Rollinson** Partitioning the Effects of Concurrent Consequences of Floods in Riparian Plant Communities	**Amanda Bailey** Monitoring Northern Long-eared Bats on Long Island, NY	**Audrey Barker-Plotkin** Pits and Mounds: The Charismatic Microtopography of the New England Forest
5:05–5:25	**Wildova Radka & Jonathan Rosenthal** Monitoring and Managing Ash (MaMA): Working Together to address the Threat from EAB	Q & A	**Kathleen O'Connor** Lessons Learned from Teaching Acoustics	**Greg McGee** Epiphytic Bryophyte and Lichen Communities of Old-Growth Adirondack Northern Hardwood Forests
5:25–5:30	Q & A		Q & A	Q & A
5:30–6:00	**Open Networking Session with cash bar and finger foods**			
5:30–6:00	**Take down for Day 1 scientific posters**			
6:00	**Plated dinner and socializing - ticketed event**			

Saturday	NENHC 2017 Saturday Evening Workshops & Events
7:30–9:00 PM Room J	**Wildlife Forensics,** led by Nicole Chinnici, Forensic Scientist, Northeast Wildlife DNA Laboratory, East Stroudsburg University This workshop will introduce wildlife biologists, state agencies, conservation officers, and others interested in wildlife forensics to the services offered by the Northeast Wildlife DNA Laboratory. It will address the knowledge, skills, and abilities needed for the proper processing of animal remains associated with a legal investigation. Topics will include sample collection, case submission, type of testing, database management and case studies. Also included in this workshop is a presentation on human–wildlife encounter protocols which focus on sample collection from the scene of a wildlife-human attack. **Space limited. Pre-registration required**.
7:30–8:15 PM Room F	**The White Oak Effect on Mosses and Liverworts,** led by Steve Messier, botanist and bryologist This presentation will explore the role White Oaks play in the distribution and abundance of mosses and liverworts in sandy soils of central Connecticut. Based on observations from a 2-year study in the Winding Trails forests in Farmington, questions arise as to why some bryophytes normally described as preferring moist and calcareous habitats should be found in acidic droughty soils. To address these questions, a few common forest trees will be compared in light of their stem flow and cation exchange properites. A brief discussion of White Oaks and "the fertile island effect" on other plant groups concludes the talk. **Open to all**. **Pre-registration not required**.
7:30–9:00 PM Room E	**Film: The City Dark,** followed by discussion on impacts of light pollution led by Leo Smith, Northeast Regional Director, International Dark Sky Association THE CITY DARK is a feature documentary about the loss of night. After moving to NYC from rural Maine, filmmaker Ian Cheney asks a simple question - do we need the stars? - taking him from Brooklyn to Mauna Kea, Paris, and beyond. Exploring the threat of killer asteroids in Hawaii, tracking hatching turtles along the Florida coast, and rescuing injured birds on Chicago streets, Cheney unravels the myriad implications of a globe glittering with lights - including increased breast cancer rates from exposure to light at night, and a generation of kids without a glimpse of the universe above. Featuring stunning astrophotography and a cast of eclectic scientists, THE CITY DARK is the definitive story of light pollution and the disappearing stars.The film will be followed by a time for Q & A and discussion of the issues raised. This film is a great prelude to the Ecological Consequences of Light Pollution session on Sunday morning. **Open to all. Pre-registration not required.**
8:30 PM Room A	**Annual Meeting of the Consortium of Northeastern Herbaria (CNH)**

SUN MORNING	SUNDAY APRIL 23, 2017			
7:00–5:00	Conference Registration Open			
7:00–8:00	Set up for exhibitors			
8:00	Exhibitions Open			
7:30–8:30	Set up for Day 1 scientific posters			
7:45–8:30	PowerPoint preview/technology check for the presentations - in the room your talk will be given			
8:30–9:40	**Concurrent Sessions - Morning I**			
	Room C	Room D	Room E	Room F
	Non-Odonata Freshwater Invertebrates	**Floristic Studies II**	**Ecological Consequences of Light Pollution**	**Earthworms and Mountains: The Little and Big Things that Shape our World**
Moderator	**Jay Cordeiro**	**Scott Ward**	**Leo Smith**	**Timothy McCay**
8:30–8:35	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
8:35–8:55	**Andrew Mcelwain** Nacrezation of *Unionicola* sp. (Acari: Unionicolidae), and Metacercariae (Digenea) in *Elliptio complanata* (Bivalvia: Unionidae) from Oquaga Creek, New York	**Jenifer Dickinson** Defining Habitat Characteristics of Four Rare Alpine Plant Species in the Presidential Mountain Range, New Hampshire	**Leo Smith** Light Pollution and Its Ecological Impact	**Larry Spencer** An Analysis of the Role that Mt. Prospect Plays in the Pemigewasset Watershed, NH
8:55–9:15	**Jaclyn Lovell** Histopathology of Trematode (Digenea) Infections in Freshwater Snails (Gastropoda, Pleuroceridae) from Rice Creek, NY	**Scott Ward** Can C-values Provide Appropriate Estimates of Disturbance Thresholds for Rare Plant Species? Evidence from American Bittersweet (Celastrus scandens) Populations in Western New York	**Richard Stevens** Excess Evening Light: Delay in Transition to Nighttime Physiology	**Juila Rogers** Ecological Predictors and Consequences of Non-native Earthworms in Kennebec County, ME
9:15–9:35	Q & A	**Jerry Jenkins** The Natural History of Woody Plant Flowers	**James Fischer** The Ecological Consequences of Light Pollution	**Timothy McCay** Distribution and Status of the Endemic American Grey Soil Worm, *Eisenoides lönnberg*i, in the Northeast
9:35–9:40		Q & A	Q & A	Q & A
9:40–10:30	**Morning Poster Session and Reception with light snacks and beverages**			

10:30–12:00	**Sunday Concurrent Sessions - Morning II**				
	Room C	Room D	Room E	Room F	Room J
	Terrestrial Botany and Plant Ecology II	**Avian Ecology and Conservation**	**Fire-Adapted Ecosystems**	**Origins and Control of Hemlock Woolly Adelgid**	**Odonata and Related Orders**
Moderator	**John Burns**	**Susan Smith Pagano**	**Neil Gifford**	**Patrick Horan**	**Bryan Pfeiffer**
10:30–10:35	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:35–10:55	**Jerry Jenkins** Visualizing Rare Plant Habitats	**Christopher Goguen** Video Documentation of the Predator Assemblage at Veery Nests in Northeastern Pennsylvania	**Thomas Horton** Ectomycorrhizal Fungi from Resistant Spore Banks Support Post-Fire Pines	**Patrick Horan** Hemlocks, Horticulture, History, and HWA: Exploring the Introduction of the Hemlock Woolly Adelgid into the Eastern US	**Pam Hunt** Prioritizing Odonata for Conservation Action in the Northeastern US
10:55–11:15	**Lindsey Pett** Effects of Functional Group Richness of Plants on Invertebrate Diversity in Wetlands	**Samantha McGarrigle** The Effect of Weather Conditions on Common (*Sterna hirundo*) and Arctic (*Sterna paradisaea*) Terns Foraging Patterns	**Roze Marie Muzika** Disentangling the Complex Fire History of Maine	**Nicholas Russo** Avian Spring Migration as a Dispersal Mechanism for an Invasive Insect Pest	**Nicholas Block** Climate-driven Diversity Changes Revealed by a Resurvey of Odonata in Eastern Massachusetts
11:15–11:35	**Sarah Pears** Windstorm and Salvage Harvest in Northern Mixed Deciduous Forests Change Forest Structure, but Not Plant Community Diversity or Richness	**Susan Smith Pagano** An Integrated Investigation of Thrush Stopover Biology on the South Shore of Lake Ontario	**William Patterson** Third-Order Fire Effects: The Value of The Long View in Ecology	**Carole Cheah** Climate-Change Impacts in the Northeast on HWA and its Coccinellid Predator from Japan, *Sasajiscymnus tsugae*	**Matthew Marshall** Odonata in Eastern Massachusetts Exhibit Phenological Shifts Predicted by a Warming Climate
11:35–11:55	**Kevin Berend** Ecology of Alpine Snowbank Communities of Mt. Washington, NH	**David Krauss** Foraging Behavior of Migrant Passerines in Urban Parks	**Neil Gifford** Conservation and Constituency Engagement in an Urban Fire-dependent System	**Jayme Boniewicz** Mass-Rearing for Community Releases of *Sasajiscymnus tsugae* for Biological Control of Hemlock Woolly Adelgid	**Peter Hazelton** Updates and Directions for Odonate Conservation in Massachusetts
11:55–12:00	Q & A	Q & A	Q & A	Q & A	Q & A
12:00–1:30	**Lunch (included for those who pre-registered for the conference)**				

SUNDAY AFTER LUNCH	SUNDAY APRIL 23, 2017
1:10–1:30	PowerPoint preview/technology check for the afternoon presentations - in the room in which your talk will be given
	Sunday Afternoon I
1:30–3:00	**Plenary Session - Rooms D/E** **A Sensitive Dependence: Place, Time, Change and Resilience in New England Salt Marshes** **with Sue Adamowicz**, Land Management Research and Demonstration Biologist, US Fish and Wildlife Service, Rachel Carson National Wildlife Refuge in Wells, Maine This presentation uses two New England salt marshes to evaluate trends through time and projections into the future. Chaos theory, literature and fine art as well as recent salt marsh lessons inform our journey.
3:00–3:40	**Afternoon Poster Session and Reception with light snacks and beverages**

Attention NENHC Presenters—Oral and Poster:

Special offer from the *Northeastern Naturalist*

If you submit a manuscript for publication to NENA based on research presented at the 2017 NENHC by December 31st 2017, you will receive a 10% discount (15% for students) on the publication charges. Simply identify your submission as NENHC research in your cover email and you will qualify for the discount.

3:40–5:30	**Sunday Concurrent Sessions - Afternoon II**				
	Room C	Room D	Room E	Room F	Room J
	Biodiversity Conservation in the Northeast	**Conserving Native Carnivores**	**Conservation and Ecology of Reptiles and Amphibians II**	**Introduced Plants in New England: Management and Conservation**	**Challenges and Advances in Disease Vector Biology in the 21st Century**
Moderator	**Thilina Suringhe**	**Rory Carroll**	**Brian Bastarache**	**Gaytha Langlois**	**Molaei Goudarz**
3:40–3:45	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:45–4:05	**Jeff Doser** Analysis of Seasonal Temporal Variation of Soundscapes in Western New York	**Dallas Huggins & Eric Aldrich** On the Trail of Bobcats: Tracking and Camera Traps to Study *Lynx rufus*	**Matthew Tucker** Effects of Habitat Fragmentation on the Population Genetics of *Plethodon cinereus*	**Qin Leng** *Phragmites*: A Troubling Invader for Some but Important Resources for Others	**Molaei Goudarz** A Feathery Tale of Close Encounters: Mosquitoes, Birds, and Human Health
4:05–4:25	**Gregory Keller** Multiscale Effects of Landscape Heterogeneity and Fragmentation on Edge-nesting Birds in Northern MA	**Jacqueline Friar** Tracking Recovery of River Otter in Western NY since 2002 Using Sign Surveys and Occupancy Modelling.	**Scott Smyers & Kyle Cormier** Breeding Season & Larval Development Variability of Wood Frogs from the White Mountains, NH, and Wachusett Mt., MA	**Allison Hubbard** Assessment of Metal Concentrations in *Lythrum salicaria* (Purple Loosestrife) at Three Rhode Island Sites Using ICP-MS Analysis Techniques	**Phillip Armstrong** Mosquitoes and Zika Virus: Assessing the Threat
4:25–4:45	**Kathy Michell** Wildlife Biologists and Rehabilitators: Moving from Conflict Towards Collaboration	**Chee Pheng Low** Anthropogenic Drivers of Space Use among Coyote, Gray Fox, and Fisher on Fort Drum Military Installation, New York	**Amber Pitt** Using Historical Data and eDNA Surveys to Rapidly Evaluate Hellbender Population Decline	**Gaytha Langlois** A New Morphological Discovery Sheds Light on the Difficult Management of the Invasive *Cabomba caroliniana* (Carolina Fanwort) in New England Freshwater Ecosystems	**Kirby Stafford** Fighting the Bite: Tick-Associated Diseases and Integrated Tick Management
4:45–5:05	**Jay Cordeiro** MA Audubon Society's Spadefoot Toad (*Scaphiopus holbrookii*) Headstart Program: A Place-Based Education Project for Cape Cod School Children	**Rory Carroll** Stress in the City: Influence of Landscape-scale Development on Chronic Stress Levels in Bobcats	**Bryan Windmiller** Factors Affecting Growth Rates of Blanding's Turtles in Captivity and Survival Rates Post-Release	**Raheem Champion** Geomapping the Distribution of Cultivated *Metasequoia glyptostroboides* Trees in the Northeastern United States	**Kacie Chern** Local Prevalence and Strain Diversity of *Borrelia burgdorferi* in *Peromyscus leucopus* and *Ixodes scapularis*
5:05–5:25	**Pam Hunt** Identifying Regional Species of Greatest Conservation Need	**Olivia Asher** Spatial Variation in the Diet of New York City Coyotes	**Mariah Fossella** Distribution of *Plethodon cinereus* Color Morphs in Massachusetts: 40 Years Later	Q & A	**Scott Williams** Diversity and Dilution: Impacts of Medium-Sized Mammal Diversity on *Borrelia burgdorferi* Prevalence in Fragmented and Unfragmented Habitats in Connecticut
5:25–5:30	Q & A	Q & A	Q & A		Q & A
5:30–6:00	**Take down for Day 2 scientific posters**				
6:00–8:00	**Plated dinner and socializing - ticketed event**				
	Thank you for participating in NENHC 2017. We hope you enjoyed the conference and wish you a safe journey home.				