

Monday	<b>MONDAY APRIL 7, 2014</b>
<b>NENHC 2014 Field Trips &amp; Workshops</b>	
Noon– 6:00 PM	<p><b>Vernal Pool Ecology</b>, led by John Dick of Blue Lion Training</p> <p>This field trip will explore a number of vernal pools in the area, where John will discuss vernal pool ecology, functions, and values, as well as regulatory implications. Enough nets, bags, buckets and the like will be provided for all attendees to get in on the action, though if you have your own favorite dipnet or other equipment, please feel free to bring it. Waders, while not required, could be useful. Dress appropriately—no sneakers, rain gear if wet weather is forecast, etc.</p> <p>Meet at Sheraton Springfield Hotel conference center, where folks will carpool to Mittineague Park. Cost: Free, though a donation of \$10 is suggested, 100% of which will go to supporting environmental education in the Springfield public school system. For more info: Contact Stacy Carpenter at <a href="mailto:scarpenter@blueliontraining.com">scarpenter@blueliontraining.com</a></p>
1:00– 5:00 PM	<p><b>Plants of the Holyoke Range Glades</b>, led by the Glade Gang, Brett Engstrom, Jerry Jenkins, Glenn Motzkin, Karen Searcy, and Sue Williams</p> <p>This combination workshop and field trip will examine the vascular plants, bryophytes, and maybe lichens in the rocky glades on the south side of Bare Mountain, west of Rt. 116 in the Holyoke Range. At the conference center, we will spend about an hour looking at woody plants, graminoids, and bryophytes and talking about how glades work and why they are special, and then car pool to the field site and spend the rest of the afternoon there. We have lots of instructors so may break up into small groups, explore for a while, and then get back together to talk about what we have found.</p> <p>Meet in Room C.                      Cost: Free.                      For more info: Jerry Jenkins at <a href="mailto:jcjenkins@hughes.net">jcjenkins@hughes.net</a></p>
1:00– 5:00 PM	<p><b>Springfield Area "Invasives Blitz"</b>, led by Bryan Connolly, Massachusetts State Botanist</p> <p>To conduct studies on invasive plant species or to develop strategies for control, spatial data is key information. In general, invasive species are under-surveyed and large information gaps exist. Efforts have been underway to fill in these gaps using citizen science data, and these efforts have been in large part effective. But as smart phones came into common usage it was soon realized that this technology could vastly increase the ease and rate of reporting. We hope to use this session to educate students, land managers, and scientists about these new technology-based invasive reporting systems. Training will begin indoors with basic invasive plant identification, in part focused on early detection invasive species. After the invasive identification training is completed, participants will be shown how to report invasive findings using the online EDDMaps (Early Detection and Distribution Mapping System) website and the smart-phone—based Outsmart Invasive Species. After instruction is complete, teams of participants will "blitz" natural areas 3–4 natural areas near Springfield, MA, collecting data on invasive plant distribution. Our goal is to conduct a rapid assessment of invasives in the area.</p> <p>Meet in Room D.                      Cost: Free.                      For more info: Contact Bryan at <a href="mailto:bryan.a.connolly@state.ma.us">bryan.a.connolly@state.ma.us</a></p>
1:00– 4:00 PM	<p><b>Field Sketching Workshop</b>, led by Gretchen Halpert, Scientific Illustrator and Educator</p> <p>Field sketching serves many purposes: observing and documenting subjects in their natural environments offer greater understanding of ecology; drawing a specimen in detail increases both observation and illustration skills; and drawing is a valuable means of collecting information. This half-day workshop offers methods for drawing in the field. Media and techniques for visual and written note-taking will be taught, along with exercises to increase observation skills. Please bring paper or a sketchbook (any size), mechanical pencil, eraser, and pen. Optional supplies are: Pigma Micron and Pilot Razor Point markers, a small watercolor set and brush, colored pencils, and portable stool. I will demonstrate all the materials listed. A classroom will be reserved in case of inclement weather. This class is useful for teaching biology in and out of the classroom. No experience necessary; this workshop is open to everyone.</p> <p>Meet at Sheraton Springfield Hotel conference center.                      Cost: \$30. For more info: Contact Gretchen at <a href="mailto:ghalpert@stny.rr.com">ghalpert@stny.rr.com</a></p>

Monday	<h2 style="text-align: center;">More NENHC 2014 Workshops</h2>
3:00 - 4:00 PM	<p><b>Pollinator Seed Bombs</b>, led by Tom Sullivan and Jarrod Fowler</p> <p>Together let us peacefully combat pollinator declines! We will provide materials and methods for mixing clay, compost, and native wildflower seed to form Green-Grenades for pollinator-promoting guerilla-gardening and more. After learning the history and use of "clay seed balls", trainees will guiltlessly earn dirty hands and be honorably discharged with Pollinator Seed Bombs for beneficial blossom broadcasts at home and afield. Suitable for personnel of all ages including: teachers, students, gardeners, conservationists, naturalists, and citizen bee scientists of all ranks. Come in clothing that you don't mind getting a little dirty, and a bag to carry home your seed bombs. We will provide materials lists, wax paper bags, and instructions for you to be able to replicate what we are sharing.</p> <p>Meet in Room C. Cost: \$60. For more info: Contact Tom Sullivan at <a href="mailto:sullivan08@csl.edu">sullivan08@csl.edu</a> or Jarrod Fowler at <a href="mailto:jarrod.fowler@gmail.com">jarrod.fowler@gmail.com</a>.</p>
4:00 - 5:00 PM	<p><b>Hands-on Mason Bee House Making</b>, led by Tom Sullivan and Jarrod Fowler</p> <p>Using recycled housing materials such as plastic bottles, scrap paper and rope hangers. We will show how to assemble these much needed mason or blue orchard bee nesting for these super friendly bees. 10 mason bee cocoons will be provided to start your colony come spring. Participants will be able to construct these bee nest houses from easy to gather materials you can replicate back home. Instructions for making the nest house, and locating the nest house in your environment, when and how to release your cocoons, and materials lists will be provided. Suitable for people of all ages including: teachers, gardeners, conservationists, naturalists, and citizen bee scientists of all sorts. Come in clothing that you don't mind getting a little dirty, and a bag to carry home your mason bee nests. We will provide materials lists, wax paper bags, and instructions for you to be able to replicate what we are sharing.</p> <p>Meet in Room C. Cost: \$60. For more info: Contact Tom Sullivan at <a href="mailto:sullivan08@csl.edu">sullivan08@csl.edu</a> or Jarrod Fowler at <a href="mailto:jarrod.fowler@gmail.com">jarrod.fowler@gmail.com</a>.</p>
Monday	<h2 style="text-align: center;">Vermont Center for Ecostudies Sponsored Workshop offered in Collaboration with NENHC 2014</h2>
Noon - 5:00 PM	<p><b>Vernal Pool Mapping and Conservation</b></p> <p>This workshop will introduce the North Atlantic Vernal Pool Data Cooperative (VPDC) and provide a forum for participation in its development. The objectives of the VPDC are to:</p> <ol style="list-style-type: none"> <li>1) compile a comprehensive GIS database of vernal pool locations</li> <li>2) describe the mapping and verification approaches currently being employed in the region;</li> <li>3) develop a remote sensing method using LiDAR to efficiently identify potential vernal pool locations; and</li> <li>4) prioritize areas for future mapping.</li> </ol> <p>Panel presentations and discussions will focus on details of this approach as well as the scientific and conservation applications of a regionally coordinated vernal pool database. Participants will be invited to provide input on data and metadata standards, information access and visualization, and geospatial modeling and field verification methods. This session will be of interest to vernal pool specialists, wildlife and wetland management professionals, research scientists, and field biologists working for state and federal agencies, universities, environmental consulting firms, and non-governmental organizations.</p> <p>Meet in the Sheraton Ballroom on the 3rd level. Cost: \$50 or just \$25 if also registering for the 2014 NENHC. For more info: Dan Lambert at <a href="mailto:dan@highbranchconservation.com">dan@highbranchconservation.com</a></p>

TUESDAY MORNING	<b>TUESDAY APRIL 8, 2014</b>			
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			
7:45–8:25	PowerPoint preview/technology check for Tuesday presentations - in the room your talk will be given			
8:30–10:20	<b>Concurrent Sessions - Morning I</b>			
	Room A	Room B	Room C	Room D
	<b>Northeastern Bat Ecology: Revelations and Prospects for Bats Facing White-nose Syndrome</b>	<b>HWA Impacts and Management: Using Systems-Guided Approaches</b>	<b>Plant Phenology in the Northeast</b>	<b>Citizen Science and Public Outreach in the Digital Age</b>
Moderator	<b>Jonathan Reichard</b>	<b>R. Talbot Trotter III</b>	<b>Jenica Allen</b>	<b>Koen Hufkins</b>
8:30–8:40	Introduction and Overview	Introduction and Overview	Introduction and Overview	Introduction and Overview
8:40–9:00	<b>Marianne Moore</b> The Role of Antimicrobial Peptides in Resisting and Treating Bat White-nose Syndrome	<b>Mauri Hickin</b> Impact of Light Availability and Water Stress on Settlement and Survival of the Hemlock Woolly Adelgid	<b>Yingying Xie</b> Dormancy Response Patterns of Deciduous Forest Communities in New England	<b>Margaret Kosmala</b> Citizen Science for Natural History Data Processing
9:00–9:20	<b>Karen Vanderwolf</b> A Comparison of Pre- and Post-WNS Fungal Associations on Hibernating Bats in Eastern Canada	<b>Darrell Ross</b> Predators of Hemlock Woolly Adelgid in the Pacific Northwest: Potential for Biological Control in the East	<b>Lindsay Dreiss</b> Influence of Canopy Phenology on Invasive Plant Success in Temperate Forest Understories	<b>Ezra Schwartzberg</b> Incorporating Smartphone Apps and Citizen-Science Databases into the Monitoring Program at Intervale Lowlands Preserve
9:20–9:40	<b>Paul Moosman</b> Talus Slopes as Opportunities to Study and Monitor Populations of Eastern Small-footed Bats	<b>R. Talbot Trotter III</b> Long-Term Impacts of Imidacloprid Used to Control Hemlock Woolly Adelgid ( <i>Adelges tsugae</i> ) on Canopy Arthropod Communities	<b>Jenica Allen</b> Phenology Across Life Stages in Understory Native and Invasive Plants in New England	<b>Lena Fletcher and Jared Starr</b> Lights, Camera, ... Citizen Science: Assessing the Effectiveness of Video-based Training in Invasive Plant Identification
9:40–10:00	<b>John Hermanson</b> Bat Biology in Central New York in the Age of White-nose Syndrome	<b>Erika Latty</b> Effects of Hemlock Logging on Overstory, Sapling, and Understory Vegetation in Hemlock-Dominated Forests	<b>Jack Tessier</b> Damage to the Structure and Function of Wintergreen Ferns Associated with Snowfall	<b>Vanessa Boukili</b> Population Ecology of Street Trees: A Citizen Science Approach
10:00–10:20	<b>Michael Fishman</b> Bats of Long Island II: Could Coastal Plain Habitat Be a Refuge From White-nose Syndrome?	<b>R. Talbot Trotter III (moderator)</b> General Open Discussion on the Impacts and Management of HWA	<b>Rose Abramoff</b> Linking Above- and Belowground Phenology at Harvard Forest and Beyond	<b>David Paulson</b> Linking Landscapes for Massachusetts Wildlife: A Model in Wildlife and Transportation Coordination

10:20–11:05	<b>Morning Poster Session and Reception with light snacks and beverages</b>			
11:05–12:15	<b>Tuesday Concurrent Sessions - Morning II</b>			
	Room A	Room B	Room C	Room D
	<b>Impacts of Shale-Gas Development on Biodiversity I</b>	<b>Salt Marsh Ecology I</b>	<b>Natural History at the Landscape Scale I: Rocky Hills and Calciphiles</b>	<b>Conservation through Citizen Science, Education, and Community Engagement</b>
Moderator	<b>Erik Kiviat</b>	<b>Matthias Foellmer</b>	<b>Jerry Jenkins</b>	<b>Koen Hufkins</b>
11:05–11:15	Introduction and Overview	Introduction and Overview	Introduction and Overview	Introduction and Overview
11:15–11:35	<b>Erik Kiviat</b> Risks to Biodiversity from Hydraulic Fracturing for Natural Gas in the Marcellus and Utica Shales	<b>Carolyn Trietsch</b> Terrestrial Invertebrate Communities in Isolated Salt Marsh Patches within Middle Bay, South Shore Estuary, Long Island, NY	<b>Brett Engstrom</b> Drew Mountain: A Granite Hill Plant Geography	<b>Marla Coppolino</b> The Snail Wrangler: Filling the Gaps in Land Snail Awareness and Education
11:35–11:55	<b>Rich Horwitz</b> Assessment of Aquatic Assemblages with respect to Marcellus Shale Natural Gas Drilling in North-central Pennsylvania	<b>Russell Burke</b> Quantifying New York Diamondback Terrapin Habitat	<b>Nancy Slack</b> The Alpine Landscape: Snowbed Research on Mt. Washington in Relation to Future Climate Change	<b>Amy Mertl</b> Ants in the City: Can Community Gardens and Citizen Scientists Help Preserve Insect Biodiversity?
11:55–12:15	<b>Sally Entrekin</b> Landscape Changes and Biological Communities across a Gradient of Natural Gas Activity in Streams	<b>E. Christa Farmer</b> Trace Metals and Ragweed Pollen Constrain Stratigraphy of a Sediment Core from North Cinder Island, NY	<b>Scott Bailey</b> Where the Calcicoles Are	<b>Elyse Fuller</b> The Rockland Audubon Society Bluebird Trail: Developing a Successful, Small-scale Citizen Science Project
12:15–1:45	<b>Lunch (included for those who pre-registered for the conference)</b>			

**Note: abstracts for all oral and poster presentations are available on the conference website:**

**[www.eaglehill.us/NENHC\\_2014/program/NENHC-Oral-Abstracts](http://www.eaglehill.us/NENHC_2014/program/NENHC-Oral-Abstracts)  
[www.eaglehill.us/NENHC\\_2014/program/NENHC-Poster-Abstracts](http://www.eaglehill.us/NENHC_2014/program/NENHC-Poster-Abstracts)**

**You can also access them from the left-hand menu of the website home page under Program, and we will have a printed reference copy of all the abstracts available for participant perusal at the registration table during the conference.**

TUESDAY AFTER LUNCH	<b>TUESDAY APRIL 8, 2014</b>			
1:25-1:45	PowerPoint preview/technology check for Tuesday afternoon presentations - in the room your talk will be given			
1:45-3:15	<b>Concurrent Sessions - Afternoon I</b>			
	Room A	Room B	Room C	Room D
	<b>Impacts of Shale-Gas Development on Biodiversity II</b>	<b>Freshwater Ecology I</b>	<b>Patterns and Changes in the Flora of New England</b>	<b>Urban Ecology: Reconciliation Ecology and Vertebrate Conservation in Suburbanizing Landscapes I</b>
Moderator	<b>Erik Kiviat</b>	<b>Alan Christian</b>	<b>Robert Bertin</b>	<b>Paige Warren and David King</b>
1:45-1:55	Introduction and Overview	Introduction and Overview	Introduction and Overview	Introduction and Overview
1:55-2:15	<b>Petra Wood</b> Long-term Avian Response to Forest Fragmentation from Shale-Gas Development	<b>Mark Lamay</b> Diel Vertical Migration of Crustacean Zooplankton in Two Lakes in Northern New York	<b>Charles Cogbill</b> Settlement-Era Forests of New England: The Empirical Data	<b>Paige Warren</b> Human Influences on Species Interactions in Urban Communities: New England in a Global Context
2:15-2:35	<b>John B. Davis</b> Assessing Cumulative Ecological Degradation from Marcellus Shale Exploitation in NY: A GIS Model	<b>Jared Green</b> Effectiveness of Head-starting as a Tool for Establishing a Viable Population of Blanding's Turtles	<b>Matthew Hickler</b> A Flora of Franklin County, Massachusetts: A Work in Progress	<b>Marja Bakermans</b> Lessons in Urban Ecology from a Long-term Study in Ohio
2:35-2:55	<b>Kathy Michell</b> Identifying and Managing Impacts of Natural Gas Pipelines on Timber Rattlesnakes in the Northeast	<b>Bill Kilpatrick</b> Genetic Variation and Genetic Differentiation of Mudpuppy Populations in the Northeastern United States	<b>Bryan Connolly</b> Cryptic and Under-detected Hybrid Vascular Plant Taxa in Southern New England	<b>Vincent D'Amico</b> Novel Ecosystems in Heterogeneous Urban Forests
3:55-3:15	<b>Erik Kiviat (moderator)</b> General Open Discussion on the Impacts of Shale-Gas Development on Biodiversity	<b>Rachel Cary</b> Screening Amphibian Populations in Oswego County, NY for Infectious Ranavirus	<b>Robert Bertin</b> Alien Species, Land Use, Climate Change, and the Flora of Worcester County, Massachusetts	<b>David Krauss</b> Bird Behavior as an Indicator of Marine Ecosystem Health in Hudson River Park, New York City
3:15-3:45	<b>Afternoon Poster Session and Reception with light snacks and beverages</b>			

3:45–5:15	<b>Tuesday Concurrent Sessions - Afternoon II</b>			
	Room A	Room B	Room C	Room D
	<b>Salt Marsh Ecology II</b>	<b>Freshwater Ecology II</b>	<b>New England Ecology and Conservation – Past, Present, and Future</b>	<b>Urban Ecology: Reconciliation Ecology and Vertebrate Conservation in Suburbanizing Landscapes II</b>
Moderator	<b>Matthias Foellmer</b>	<b>Alan Christian</b>	<b>David Foster</b>	<b>Paige Warren and David King</b>
3:45–3:55	Introduction and Overview	Introduction and Overview	Introduction and Overview	Introduction and Overview
3:55–4:15	<b>Matthias Foellmer</b> The Spider Fauna of Isolated Salt Marsh Patches in the South Shore Estuary Reserve, Long Island, NY	<b>Joseph Rachlin</b> Population Dynamics of White Sucker in an Urban Stream	<b>David Foster</b> Hemlock: A Forest Giant on the Edge	<b>Joan Morrison</b> Green Space Within Home Ranges of Red-tailed Hawks in an Urban Environment
4:15–4:35	<b>Andrew Vacca</b> Bioaccumulation of Heavy Metals within the Invertebrate Food Web of Hempstead Bay, Long Island, NY	<b>Sean McCanty</b> Morphological and Phenological Differences in Adult <i>Dolophilodes distinctus</i> (Trichoptera) at Urban and Rural Headwater Streams	<b>David Orwig</b> Imperiled Old-growth Hemlock Stands of Southern New England	<b>Carolyn Koestner</b> Seasonal Occupancy and Diel Activity Periods of <i>Canis latrans</i> (Coyote) in New York City Parks
4:35–4:55	<b>James Browne</b> Relationship Between Estuarine Breeding Bird Populations and Eutrophication on Long Island, NY	<b>Barbara Warkentine</b> Water Quality Assessment of Two Slow-moving Sandy-Bottom Sites on the Saw Mill River, New York	<b>Wyatt Oswald</b> New Analyses of the Middle-Holocene Hemlock Decline in Southern New England	<b>Melanie Klein</b> Testing the Predation Paradox in Western Massachusetts
4:55–5:15	<b>Elizabeth Watson</b> Vulnerability of Northeastern US Salt Marshes to Climatic and Anthropogenic Stressors	<b>Alan Christian</b> The Efficacy of Using Citizen-Science Aquatic Macroinvertebrates Water-Quality Monitoring in the Charles River Watershed (Massachusetts)	<b>Jonathan Thompson</b> Four Scenarios for the Future of the Massachusetts Landscape	
5:15–5:45	<b>Open Networking Session with cash bar and finger foods</b>			
5:15–5:45	Take down for Day 1 scientific posters			
5:45–7:45	<b>Plated dinner and socializing - ticketed event</b>			
7:30–9:30	<b>Room A - <i>Phragmites</i> Ecology and Management workshop led by Erik Kiviat</b>			

WED MORNING	<b>WEDNESDAY APRIL 9, 2014</b>			
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 2 scientific posters			
7:45-8:25	PowerPoint preview and technology check for Wednesday presentations - in the room in which your talk will be given			
8:30-10:00	<b>Concurrent Sessions - Morning I</b>			
	Room A	Room B	Room C	Room D
		<b>Factors Affecting Bee Health and Implications for Pollination</b>	<b>Invasive Species I: New Approaches to Invasives Management</b>	<b>Climate Change Impacts on Watershed Ecohydrological Processes</b>
Moderator		<b>Lynn Adler</b>	<b>Richard Gardner</b>	<b>Timothy Randhir</b>
8:30-8:40		Introduction and Overview	Introduction and Overview	Introduction and Overview
8:40-9:00		<b>Lynn Adler</b> Role of Floral Traits Mediating Pathogen Transmission and Establishment in Pollinators	<b>Richard Gardner</b> Introduction to Bioeradication	<b>Le Zhang</b> Watershed-scale Adaptation Strategies for Climate Change
9:00-9:20		<b>Kim Stoner</b> Evaluating Pesticide Residues in Trapped Pollen from Honey Bee Hives in Connecticut	<b>Richard Gardner</b> Bioeradication: Invasive Non-native Plants, their Weaknesses and their Eradication	<b>Paul Ekness</b> Continental-Scale Impacts of Climate on Runoff
9:20-9:40		<b>Anne Averill</b> Bumble Bee Health in Agroecosystems	<b>Richard Gardner</b> The Concepts and Terminology, Theoretical Framework, and Application of Bioeradication	<b>Olga Tsvetkova</b> Modeling Climate and Hydrologic Uncertainty
9:40-10:00		<b>Leif Richardson</b> Iridoid Glycosides in Floral Nectar Alter Pollinator Behavior and Pollen Transfer Dynamics		<b>Ammara Talib</b> Climate-Change Impacts on the Suasco Watershed System
10:00-10:45	<b>Morning Poster Session and Reception with light snacks and beverages</b>			

	<b>Wednesday Morning II</b>
10:45-12:00	<p style="text-align: center;"><b>Plenary Session - Room A</b>  <b>Scientific Naturalist: Anachronism, Oxymoron, Pragmatic Realist?</b>  <b>with Bernd Heinrich,</b>  Ecologist, Professor Emeritus, Biology Department, University of Vermont</p> <p>Based on his personal experiences during an extensive career as a biologist along with his keen perceptions as a natural history researcher and philosopher, Bernd will explore the idea of what it means to be a scientific naturalist and how perception of the term and the role of those who have held that moniker has changed over time. He will also speculate on some of the implications of the changing role of naturalist in our society over time.</p>
12:00-1:30	<b>Lunch (included for those who pre-registered for the conference)</b>



WED AFTER LUNCH	<b>WEDNESDAY APRIL 9, 2014</b>			
1:10–1:30	PowerPoint preview/technology check for Wednesday afternoon presentations - in the room in which your talk will be given			
1:30–3:00	<b>Concurrent Sessions - Afternoon I</b>			
	Room A	Room B	Room C	Room D
	<b>Urban Ecology: Spineless Wonders: Invertebrate Research in Urban Systems I</b>	<b>Multi-trophic Ecological Interactions in Northeastern Forests</b>	<b>Invasive Species II: Research on the Growth, Spread, and Ecological Impact</b>	<b>Natural History at the Landscape Scale II: Regions and Continents</b>
Moderator	<b>Susannah Lerman and Joan Milam</b>	<b>Kristina Stinson</b>	<b>Celia Evans</b>	<b>Jerry Jenkins</b>
1:30–1:40	Introduction and Overview	Introduction and Overview	Introduction and Overview	Introduction and Overview
1:40–2:00	<b>Jennifer Apple</b> Colony Relocation and Intraspecific Raids by Slavemaking Ants: Meeting Demand for Captive Labor?	<b>Jeffrey Blanchard</b> Differences in Microbiome Structure and Activity Between Forest and Recently Disturbed Soils from the Harvard Forest and the Quabbin Reserve	<b>Mason Heberling</b> Pre-adapted to Invade? Resource-use Strategies of Reciprocal Woody Invaders in the Northeastern US and France	<b>Conrad Vispo, Claudia Knab Vispo, and Kyle Bradford</b> Columbia County, NY, Landscapes from the Perspectives of Plants, Ants, and Farms
2:00–2:20	<b>Jessica Rykken</b> Many-legged Pilgrims: 400 Years of Invertebrate Introductions in Boston Harbor	<b>Mark Anthony</b> Factors Controlling Microbial Responses to <i>Alliaria petiolata</i> (Garlic Mustard) Invasion in Northeastern Mixed Forests	<b>Sarah Bois</b> Demographic Mechanisms Underlying Invasive Spread: Comparison of an Invasive and its Native Ecological Analog	<b>Michale Glennon</b> The Importance of Private Land for Wildlife in the Adirondacks
2:20–2:40	<b>Maria Aliberti-Lubertazzi</b> Emerging Dragonfly Distributions at Lentic Wetlands Along Environmental Gradients in Rhode Island	<b>Matthew Dami</b> Animal-Facilitated Dispersal of Bryophyte Spores in Northeastern US Forests	<b>Anne Alerding</b> Detritivore Response to Garlic Mustard invasion is Morphospecies-Specific	<b>Jerry Jenkins</b> The Landscapes of the Northern Forest
2:40–3:00	<b>Karin Burghardt</b> "If you've seen one tree ...": The Diversity of Herbivores in Experimental Native and Non-native Tree Communities	<b>Samantha Kruguer</b> Effects of Habitat and Vegetation on Abundance of Black-legged Ticks ( <i>Ixodes scapularis</i> ) as Lyme Disease Carriers in Essex County, Massachusetts	<b>Celia Evans</b> Investigating Growth and Growth Form in Invasive and Native Watermilfoil Species Across a Range of Water Temperatures: Implications for Aquatic Plant Communities Under Climate Change Scenarios	<b>John Davis</b> From Southeast to Northeast: Connecting Nature at a Continental Scale
3:00–3:30	<b>Afternoon Poster Session and Reception with light snacks and beverages</b>			

<b>Wednesday Concurrent Sessions - Afternoon II</b>				
	Room A	Room B	Room C	Room D
3:30-5:20	<b>Urban Ecology: Spineless Wonders: Invertebrate Research in Urban Systems II</b>	<b>Amphibian Conservation</b>	<b>Mammals in the Northeast: Habitat Interactions, Population Changes, and Implications</b>	<b>Bird Ecology in the Northeast</b>
Moderator	<b>Susannah Lerman and Joan Milam</b>	<b>Brad Timm</b>	<b>Lauren Nolfo-Clements</b>	<b>Michale Glennon</b>
3:30-3:40	Introduction and Overview	Introduction and Overview	Introduction and Overview	Introduction and Overview
3:40-4:00	<b>Laura Hilberg</b> To Mow or To Mow Less: How Lawn Mowing Frequency Affects Bee Biodiversity and Soil Carbon Storage	<b>Brett Thelen</b> The Salamander Crossing Brigades: A Case Study in Applied Conservation from Southwestern New Hampshire	<b>Janet Ellsworth and Marc Peterson</b> Timing of Peak Acorn Yield in Northern Red Oak at Flatrock Forest in Relation to Small Mammals	<b>Shannon Luepold</b> A Multi-Scale Analysis of Rusty Blackbird Nest Survival in Northeastern Industrial Forests
4:00-4:20	<b>Caroline Devan</b> Deer Impacts on Northeastern Temperate Forest Bee Communities	<b>James Arrigoni</b> Constructing Vernal Pools for Amphibians: Translating Natural History into Successful Restoration	<b>Samuel Mason</b> Shifts in Small-Mammal Abundance and Lyme Disease Infection Rate at Varying Scales Among Four Different New England Habitat Types	<b>Alza Carissa</b> How Beavers Influence Habitat and Species Diversity of Breeding Birds in the Central Adirondacks
4:20-4:40	<b>Gabriella Pardee</b> Local and Landscape Predictors of Bee Richness and Abundance in Backyard Gardens of Northwest Ohio	<b>Jonathan Richardson</b> Finding Efficiency in Amphibian Conservation: Rapid Assessments of Genetic Viability Predict Long-term Population Trends in the Wood Frog	<b>David Byman</b> Effects of Deer Exclosures on Small Mammal Populations and Invertebrate Diversity: Preliminary Results	<b>Daniel Clark</b> Fidelity and Persistence of Ring-billed and Herring Gulls to Wintering Sites
4:40-5:00	<b>Leif Richardson</b> An Overview of the Vermont Center for Ecostudies Bumble Bee Atlas	<b>Sophia Windstam</b> Annual Fluctuations in Prevalence of Batrachochytrium dendrobatidis during a Two-Year Field Study in Oswego County, NY	<b>Don McAlpine</b> Stable Isotopes Suggest Some Wolves in Canada South of the St. Lawrence River are of Wild Origin	
5:00-5:20		<b>Kevin Ryan and Brad Timm</b> A Tale of Two Toad Populations: Telemetry Studies of the Eastern Spadefoot at the Northern Extent of Their Range	<b>Lauren Nolfo-Clements</b> Small Mammal Population Dynamics on Bumpkin Island in the Boston Harbor	
5:00-6:00	<b>Take down for Day 2 scientific posters</b>			
5:20-6:00	<b>Open Networking Session with cash bar and finger foods</b>			
6:00-8:00	<b>Plated dinner and socializing - ticketed event</b>			
	<b>Thank you for participating in NENHC 2014. We hope you enjoyed the conference and wish you a safe journey home.</b>			
	<b>SEE YOU AT THE NEXT NORTHEAST NATURAL HISTORY CONFERENCE!</b>			

# TUESDAY POSTER PRESENTATIONS DIRECTORY

No.	Presenters	Title
1	Nicholas Humphreys	Geographic Variation of Midge Phoresy on Crayfish from the Susquehanna River
2	Angela Coco	Geographic Variation in Midge Phoresy on the Hellgrammite ( <i>Corydalus cornutus</i> ) from the Susquehanna River
3	Timothy Wychock	The Distribution of Phoretic Midges on the Hellgrammite ( <i>Corydalus cornutus</i> ) from the Susquehanna River
4	Chad Katra	The Incidence of Phoretic Midges on Crayfish from the Susquehanna River
5	Thomas Mangan	Crayfish of the Susquehanna River: Range Expansion of the Rusty Crayfish
6	Edgar Franck	The Effects of Cranberry Bog Restoration on Physical Habitat, Aquatic Invertebrate Communities, and Ecosystem Processes at Tidmarsh Farms, Plymouth, MA
7	Sarah Glancy	Proposal for Research Comparing Cold Water Zooplankton Communities of Adirondack Lakes with Variable Fish Introduction Histories
8	Charles Wlasniewski	Habitat Utilization and Movements of Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) in First Order Streams
9	Brian Maryanne Bartlett Grey	Status of a Radiotelemetry Study of Movements of Hatchery-Reared Brook Trout Released into a Long Island Nature Preserve
10	Sarah Jacobs	Limnological Assessments and Trophic Status of Hardy Pond for Water Year 2012–2013
11	Chris Picone	Effects of Aquatic Herbicides on Abundance of Breeding Frogs
12	Erin Moseman	Aquatic Decomposition of Native and Invasive Leaf Litter in Rugar Woods, Plattsburgh, New York
13	Jason Aylward	A Regional Study on Forest Understory Responses to <i>Alliaria petiolata</i> (Garlic Mustard) Invasion
14	Matt Penella	The Distribution and Severity of Adelges Tsugae Infestations in Southeastern Massachusetts, and the Effect of Anthropogenic Factors
15	Michelle R. Jackson	Potential Effects of Eastern Hemlock Decline on the Hemlock-associated Liverwort <i>Bazzania trilobata</i>
16	Jesse Wheeler	Comparing Metrics of Forest Health between Acadia National Park and Surrounding Forestlands
17	Alexandra Perry	Using Functional Traits to Solve the Mystery of the Extirpation of Native Plant Species in Acadia National Park
18	Caitlin McDonough	Changes in the Flora of Acadia National Park
19	Ethan Self	Changes in Moss Phenology in Response to Altered Environmental Stimuli
20	Jenny Shrum	The Drivers of Maple Sap Flow: The Implications of Climate Change on a Maine Tradition
21	Mary Beth Kolozsvary	Integrating Scientific Information and Expert Opinion to Inform Regional Vernal Pool Conservation
22	Jacob Straub	From Local to Continental Scales: Training Undergraduates to Think Big through the Ecological Research as Education Network
23	Elyse Fuller	The Rockland Audubon Society Bluebird Trail: Developing a Successful, Small-scale Citizen-Science Project
24	Jennifer Kristin Kane McDermott	Northern Cardinal ( <i>Cardinalis cardinalis</i> ) Stopover-Habitat Use and Quality in Coastal Rhode Island
25	Jason Baird	Raptors on the East Coast: A Shift in the Timing of Autumn Migration
26	Marissa Simpson	The Prevalence of Plasmodium in Migrant and Resident Birds
27	Skye Sloman	Impacts of the Urban Environment on Levels of the Stress Hormone Corticosterone in Black-Capped Chickadees and Tufted Titmice
28	Krystal Boyd	Influence of Habitat and Geographic Characteristics on Earthworm Abundance and Diversity
29	Eric LeFlore	Prey Abundance Affects the Distribution of Coyotes in the Pioneer Valley, Massachusetts
30	Steven Yoo	Using Automatic Recognition Software to Identify Target Species from Wildlife Cameras

# WEDNESDAY POSTER PRESENTATIONS DIRECTORY

No.	Presenters	Title
1	James Wolfe	Road-Salt Pollution in Northern Allegany County, New York
2	Chad Seewagen	Mercury Accumulation in Red-winged Blackbirds in the New York Metropolitan Area and its Effects on Nestling Growth
3	David Ermacor	Discovery of a New <i>Oreothlypis</i> Warbler Hybrid in the Adirondacks
4	Mariah Eldredge Margaret Hester	Local and Site-Level Effects on Nesting Barn Swallows ( <i>Hirundo rustica</i> )
5	David Dorval GianPaula Hulten	Bee Diversity and Suburban Lawns
6	Aswini Pai	Bee Diversity and Abundance in Forage Crop Fields of <i>Medicago sativa</i> (Alfalfa) and <i>Glycine max</i> (Soybean) in St. Lawrence County, NY
7	Laura Prendergast	Using Mitochondrial DNA to Examine Queen Relatedness in a Population of <i>Polygynous Formica</i>
8	Brianna Shares	Determination of the Colony Structure in Recently Founded <i>Formica glacialis</i> Nests
9	Hannah Doherty	Dynamics of Raid Development and Execution in the Slavemaking Ant <i>Formica subintegra</i>
10	Erica Leicht	Influence of Light Environment on Distribution and Size of <i>Formica glacialis</i> Nests
11	Timothy Frankstone	<i>Boraria stricta</i> (Yellow-spotted Millipede): An Exotic Species in the Mianus River Gorge Preserve
12	Colleen Cook	Soil pH Does Not Affect the Molting Success of Blacklegged Ticks
13	Sara Scanga	Feasibility of Out-planting Small Populations to Conserve a Rare Fen Plant
14	Gabriel Zabala	Declining NO <sub>3</sub> -N Export within Two Neighboring Sub-catchments of the Forested Buck Creek Watershed
15	MaryEllen Fitzgerald-Bord Mary Brockett	Assessment of the Effect of Climate-Change-Induced Lake-Effect Snowfall on Tree-Ring Width
16	Jillian Zajac	Changes in Seasonal Phenology of Aquatic Insects in an Adirondack Stream due to Changing Climates
17	Kendra Driscoll	Discovery of <i>Lecanora insignis</i> and Associated Lichenicolous Fungi in Northeastern North America
18	Elli Mazères	Epiphytic Bryophyte Diversity: A Comparison between Angiosperm and Gymnosperm Host Species
19	Kaitlyn Mrocza	An Inventory and Illustrations of Bryophytes in Rugar Woods, Plattsburgh NY
20	Gretchen Kai Halpert	Steps to Producing a Scientific Illustration: An Aid for the Scientist
21	Kyle Cormier	Using DNA Barcoding to Supplement a Traditional Plant Survey
22	Noah LeClaire-Conway	The Use of Molecular Techniques to Evaluate Species Relationships within the Native Grass Genus <i>Dichantheium</i>
23	Elizabeth Watson	Inundation Effects on Growth and Flowering of the High-Marsh Species <i>Juncus gerardii</i>
24	Jacquelyn Shuster	Demographics of Basking Turtles in Forested and Agricultural Landscapes in Southeastern Massachusetts
25	Jared Green	Effectiveness of Head-starting as a Tool for Establishing a Viable Population of Blanding's Turtles
26	Marc Rivadeneyra	Habitat Selection of Hatchling Eastern Box Turtles
27	Cassandra Whyte	<i>Chrysemys picta</i> (Painted Turtle) Demographic and Home-Range Patterns in Rural vs. Urban Ponds
28	Macy Fredericksen	Habitat Preferences by Adult and Juvenile Red-backed Salamanders ( <i>Plethodon cinereus</i> ) Between Cover Boards and Natural Cover Objects in the MCLA Forest, North Adams, MA
29	John Vanek	Ecology of Eastern Hog-nosed Snakes on a Barrier Island