

# NENHC 2021 Conference Program Schedule

This year's virtual conference consists of a number of different components that can broadly be grouped into two categories: (1) those that are offered "on-demand" and will be available for viewing at any time during the conference, and (2) those that contain a "live" component and are scheduled for a particular time (though the recorded zoom sessions for these latter events will also be available for viewing at any time during the remainder of the conference after the event has finished). The following color-coded key applies to the program presented on the following pages.

## On-demand components:

Poster Presentation Sessions

Virtual Field Trips

Natural History Video Festival

Career Opportunities

## Time-scheduled components:

Workshops

Social & Networking Events

Meetings

Oral Presentation Sessions

Keynote Events

Other Special Events

Note that all conference events will be available for all attendees, except for those indicated as requiring pre-registration, which will only be open to those who sign up in advance (either by selecting them on your registration from or, should you want to sign up for them after you had already submitted your conference registration, by contacting [office@eaglehill.us](mailto:office@eaglehill.us) to add them to your registration). Though the plan is that the other workshops will generally not be restricted access for anyone who has registered for the conference, we do ask attendees to also sign up those workshops that don't have size limits, to give the workshop organizers a sense of the number of participants to expect and to make sure we place them in zoom sessions with the appropriate licensed capacity.

On Demand						
Available throughout conference	<b>Virtual Field Trips</b>	<b>Posters</b>	<b>Career Opportunities</b>	<b>Natural History Video Festival</b>		
<b>THURSDAY</b>	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
Noon–1:00 pm	<b>Opening Ceremonies/ Welcome Reception</b>					
1:15–2:45	<b>Spotted Lanternfly in the US</b>					
3:00–5:00	<b>Identifying Leafminers: Animal Tracking on a Tiny Scale</b>		<b>Plants and their Pollinators: A Sketchbook Journey Part I (pre-registration required)</b>			
5:00–5:30		<b>All-Season Monitoring of Tiny Mammals with Remote Devices</b>				
5:30–6:30	<b>Conference 101</b>					
6:30–7:00						
7:00–8:30 pm	<b>Mount Auburn Cemetery as a Living Urban Laboratory: From Citizen Science to Urban Ecology</b>		<b>Conserving Rare Eastern Fungi – Why It’s Important to Document What We Don’t Know!</b>			

On Demand						
Available throughout conference	<b>Virtual Field Trips</b>	<b>Posters</b>	<b>Career Opportunities</b>	<b>Natural History Video Festival</b>		
<b>FRIDAY</b>	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
Oral 1: 9:30–10:46 (3 talks)	<b>Fish Biology I: Population Biology</b>	<b>Paleozoology – Feathers, Fins, and Fur</b>	<b>Native Plants and Native Pollinators I: Wild Bee Faunas</b>	<b>Invasive Species in the Northeast: Regulatory Approaches and Recent Trends</b>	<b>Citizen and Community Science</b>	<b>Forest Ecology</b>
Oral 2: 10:52–12:30 (4 talks)	<b>Climate Effects on Birds</b>	<b>Beach-stranded Marine Fishes</b>	<b>Parasite Ecology</b>	<b>Waterfowl and Wetlands Science and Conservation</b>	<b>Avian Breeding Season Ecology Along the Coast</b>	<b>Views from Above: Remote Sensing and Synoptic Mapping</b>
1–2 pm	<b>AFO Annual Business Meeting</b>					
2:00–3:25	<b>Keynote: Leaping to Conclusions: Courtship and Mating System of a Neotropical Bird with Regina Macedo</b>					
Oral 3: 3:30–5:30 (5 talks)	<b>Native Freshwater Mussels: Exploring Threats, Restoration Efforts, and More</b>	<b>New Natural History Books: Insights from the Authors</b>	<b>Climate Change Ecophysiology</b>	<b>Trail Camera Wildlife Monitoring in Human-dominated Systems</b>	<b>Avian Ecology in Urban Areas</b>	<b>Education, Collections, and Citizen Science to Promote Understanding of Birds</b>
5:35–7:05	<b>Career Mentoring for College Students and Early Professionals</b>	<b>Pre-college Student Activities</b>				
7:00–9:00 pm			<b>Plants and their Pollinators: A Sketchbook Journey Part II (Pre-registration required)</b>			

On Demand						
Available throughout conference	<b>Virtual Field Trips</b>	<b>Posters</b>	<b>Career Opportunities</b>	<b>Natural History Video Festival</b>		
<b>SATURDAY</b>	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
Oral 1: 9:30–10:46 (3 talks)	<b>The Effects of Belowground Interactions on Aboveground Plant Functional Traits</b>	<b>How to Make Meaning of Citizen Science Biodiversity Data I</b>	<b>Natural History Education and Communication</b>	<b>Biodiversity in Pine Barrens and Heathlands I</b>	<b>New England Flora: Continued Need For Study</b>	<b>Avian Habitat Use and Ecology I: Human Impacts</b>
Oral 2: 10:52–12:30 (4 talks)	<b>Fish Biology II: Anatomy, Physiology, Behavior</b>	<b>How to Make Meaning of Citizen Science Biodiversity Data II</b>	<b>Coastal Marine Habitats of the Northwest Atlantic</b>	<b>SPARCnet: The Salamander Population and Adaptation Research Collaboration Network</b>	<b>Expanding the Northeastern Motus Network</b>	<b>Avian Nesting Biology</b>
12:35–1:00 pm		<b>LGBTQIA+ and Allies Social (Pre-registration required)</b>				
1:00–2:00 pm			<b>WOS Annual Business Meeting</b>			
2:00–3:25	<b>Keynote: Long-term Research on an Ordinary Extraordinary Songbird: The Dark-eyed Junco with Ellen Ketterson</b>					
Oral 3: 3:30–5:30 (5 talks)	<b>To the Sky and Back: The Natural History of Flight and Neoflightlessness</b>	<b>Botany</b>	<b>Urban Ecology and Environmental Justice I</b>	<b>Use of Trail Cameras in Mammal Conservation</b>	<b>Behavior and Ecology of Neotropical Birds</b>	<b>Avian Biogeography and Climate Change</b>
5:35–7:05		<b>Career Panel</b>				
7:00–8:30 pm	<b>Meet the Editors Panel Session: Advice and Insights into Publishing your Research</b>					

On Demand						
Available throughout conference	<b>Virtual Field Trips</b>	<b>Posters</b>	<b>Career Opportunities</b>	<b>Natural History Video Festival</b>		
<b>SUNDAY</b>	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
Oral 9:30–11:08 am (3-4 talks)	<b>Horseshoe Crab Ecology I</b>	<b>Insect Movement, Phenology, and Conservation</b>	<b>Urban Ecology and Environmental Justice II</b>	<b>Biodiversity in Pine Barrens and Heathlands II</b>	<b>Full-cycle Nightjar Monitoring in Eastern North America</b>	<b>Avian Habitat Use and Ecology II: Forests Here and There</b>
Oral 2: 11:15 am –1:15 pm (4-5 talks)	<b>Horseshoe Crab Ecology II</b>	<b>Herps: Impacts of the Anthropocene</b>	<b>Native Plants and Native Pollinators II: Conservation Strategies</b>	<b>Pitch Pines and Pine Barrens: Natural History and Human Influence</b>	<b>Management Impact on Birds</b>	<b>Life Histories of Northeastern Arthropods &amp; Bat Conservation: Light Pollution and White Nose Syndrome Management</b>
2:00–4:00	<b>Keynote: Black Birders: Exploring Wild Places and Confronting White Spaces in Ornithology</b>					
4:00–5:00		<b>Conference Connections Networking Session</b>				
5:00 pm	<b>Closing Ceremony/Awards announcements</b>					

9:30–10:46 AM	<b>Friday Concurrent Sessions 1</b>					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Fish Biology I: Population Biology</b>	<b>Paleozoology: Feathers, Fins, and Fur</b>	<b>Native Plants and Native Pollinators I: Wild Bee Faunas</b>	<b>Invasive Species in the Northeast: Regulatory Approaches and Recent Trends</b>	<b>Citizen and Community Science</b>	<b>Forest Ecology</b>
Moderator	<b>Daniel Welsh</b>	<b>Fred Rogers</b>	<b>Kathleen Englemann</b>	<b>Mary Beth Koloszvary</b>	<b>Declan McCabe</b>	<b>Gregory McGee</b>
9:30–9:32	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
9:32–9:54	<b>Molly E. McCutcheon</b> Comparison of Growth and Development of the Northern Sand Lance from Two Natal Habitats in the Gulf of Maine	<b>Carolina Acosta Hospitaleche</b> Giants from Antarctica: The Fossil Record of Penguins, Pelagornithids, and Other Birds	<b>James Durrell</b> Exotic and Wild Bee Fauna of Bridgeport, CT, a Coastal Urban Habitat	<b>Emily J. Fusco</b> Invasive Plant Regulations in the US are Reactive and Inconsistent	<b>Robert J. Gegear</b> BEECOLOGY: Conserving Native Pollination Systems Through the Power of Citizen Science	<b>Tahnee Ames</b> Less Shelter in Shelterwoods: Management Strategies Change Epiphytic Microarthropod Assemblages
9:54–10:16	<b>Katherine Lewis &amp; Rick Van de Poll</b> Instream Habitat and <i>Salvelinus fontinalis</i> (Eastern Brook Trout) Response to Over Ten Years of Stream Habitat Restoration	<b>Mason Hintermeister</b> Climate-Driven Dietary Change in Miocene Giant Threshers and Megatoothed Sharks	<b>Tracy A. Zarrillo</b> The Bee Fauna of an Atlantic Coastal Plain Tidal Marsh Community in Southern New England	<b>Sarah T. Bois</b> Naturalized Scotch Broom ( <i>Cytisus scoparius</i> ) on Nantucket Island, Massachusetts: A Proposal for Invasive Listing	<b>Janel J. Roberge</b> Macroinvertebrates as a Gateway Drug for Citizen Scientists: Thirteen Years of Vermont EPSCoR Outreach	<b>Chloe Ng</b> Assessing Understory Recovery in a Northeastern Forest Following 15 Years of Deer Management
10:16–10:38	Q & A	<b>Nicholas M. Gardner</b> New Ancient DNA for <i>Aenocyon</i> (formerly <i>Canis</i> ) dirus Shakes up "Wolf-like" Canid Family Tree	<b>Spencer Hardy</b> A Multi-Pronged Approach to Understanding Vermont's Wild Bee Fauna	<b>Richard Gardner</b> Thoughts on and Life History of the Spotted Lanternfly, <i>Lycorma delicatula</i> , from Observations in Northern Berks County, PA	<b>Amy Mertl</b> The Ants of Mount Auburn Cemetery	<b>Ian J. Renne</b> The Herbaceous Understory, but Not Trees, May Hear the Forest for the Trees
10:38–10:46	Q & A	Q & A	Q & A	Q & A	Q & A	Q & A

10:52 AM -12:30 PM	Friday Concurrent Sessions 2					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Climate Effects on Birds</b>	<b>Beach-stranded Marine Fishes: Lessons Learned about Poorly Understood Species</b>	<b>Parasite Ecology</b>	<b>Waterfowl and Wetlands Science and Conservation</b>	<b>Avian Breeding Season Ecology Along the Coast</b>	<b>Views from Above: Remote Sensing and Synoptic Mapping</b>
Moderator	<b>Christina Riehl</b>	<b>Owen Nichols</b>	<b>Allison Neal</b>	<b>Michael Schummer</b>	<b>Jameson Chace</b>	<b>Tim O'Connell</b>
10:52-10:54	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:54-11:16	<b>Adele Balmer</b> The Effects of Nest Conditions and Weather on Body Condition and Juvenile Recruitment	<b>Owen C. Nichols</b> Pearlside Story: A Beach-Cast Mesopelagic Fish, Valuable Naturalists' Observations, and a Call for Citizen Science	<b>Dagan A. Loisel</b> Prevalence and Genetics of Gammaherpesvirus and Parvovirus Infections in Vermont Bobcats ( <i>Lynx rufus</i> )	<b>Molly M. Jacobson</b> Response of Wild Bee Assemblages to Management of Restored Wetlands	<b>Sam Albright</b> Foraging and In-colony Behavior of Breeding Leach's Storm-Petrels in the Gulf of Maine	<b>Rostam E. Mirzadi</b> Evaluation of Small Unmanned Aerial Systems for Monitoring Nest Abundance and Survival of Wading Birds
11:16-11:38	<b>Jose P. Francisco</b> Measuring Activity of Saltmarsh Sparrows and Seaside Sparrows in Relation to Tide Levels and Weather Variables	<b>Jack N. Gerrior</b> Western Atlantic Torpedo Strandings on Cape Cod from August 2020 through January 2021, Including a Mass Stranding Event on Long Point, Provincetown, MA	<b>Abigail Snow</b> Genetic Diversity of <i>Leucocytozoon</i> species Parasites in Songbirds from Central New York	<b>Kayla Harvey</b> A Case Study: Wood Duck Nest Competition and Clutch Genetic Composition	<b>Lisa Ferguson</b> Return Rates of Black Skimmers Banded as Juveniles in New Jersey	<b>Garrett Rhyne</b> Predicting Swainson's Warbler Habitat in the Appalachians Using Infrared Satellite Imagery
11:38-12:00	<b>Christina Riehl</b> The El Niño – Southern Oscillation Dramatically Influences the Probability of Reproduction and Reproductive Rate of a Tropical Forest Bird	<b>Michael E. O'Neill</b> The GSO Project: Using Citizen Science to Document the Dispersal of Tropical Fish in the Northwest Atlantic	<b>Allison T. Neal</b> The Studying Larval Trematodes in Northeastern Freshwater Snails: A Beginner's Perspective	<b>Joshua I. Brown</b> Mallard Hybridization with Feral Conspecifics Results in Adaptive Differences in Eastern North America	<b>Francesca Foltz</b> Investigating Non-invasive Methods of Hormone Quantification in Great Black-backed Gulls	<b>Ashwin Sivakumar</b> A Weather Surveillance Radar View of Alaskan Avian Migration
12:00-12:22	<b>Claire Varian Ramos</b> Effects of Drought on Two Species of Shortgrass Prairie Sparrows in Southern Colorado	<b>Panel Discussion</b> Beach-stranded marine fishes, episodic events, and rare occurrences: What have we learned and what can we learn?	<b>Genevieve M. Ivec</b> Freshwater Fish Parasite Ecology in a Lentic System	<b>Samuel R. Kucia</b> Determining Origins of Mallards Harvested in the Atlantic Flyway Using a Stable Isotope Approach	Q & A	<b>Brittany Simons</b> Landscape of Risk: America's Cost Surface
12:22-12:30	Q & A	Q & A	Q & A	Q & A		Q & A

3:30–5:30 PM	Friday Concurrent Sessions 3					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Native Freshwater Mussels: Exploring Threats, Restoration Efforts, and More</b>	<b>New Natural History Books: Insights from the Authors</b>	<b>Climate Change Ecophysiology</b>	<b>Trail Camera Wildlife Monitoring in Human-dominated Systems</b>	<b>Avian Ecology in Urban Areas</b>	<b>Education, Collections, and Citizen Science to Promote Understanding of Birds</b>
Moderator	<b>Natalie Sacco</b>	<b>Ted Elliman</b>	<b>Jake Grossman</b>	<b>Declan McCabe</b>	<b>Jason Luscier</b>	<b>Kimberly Snyder</b>
3:30–3:32	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:32–3:54	<b>Denise A. Mayer</b> Impacts of Remedial Activities on Freshwater Mussel Populations in the Upper Hudson River	<b>Charley Eiseman</b> Leafminers of North America	<b>Tom Radomski</b> Ecophysiological Models: Some Assembly, Disassembly, and Reassembly Required	<b>Jaynina Deku &amp; Jennifer Donnini</b> Monitoring the Use of Culverts by Animals in the Appalachian Region of Quebec	<b>Daniel T. Baldassarre</b> Does Living in the City Make Northern Cardinals Change Color?	<b>Georgia J. Riggs</b> Stakeholder Perceptions and Priorities of Bird–Window Collision Mitigation and Prevention
3:54–4:16	<b>Isabel Porto-Hannes</b> Muscles of Our Rivers: The Power of Unionids	<b>Elizabeth Thompson</b> Exploring the Natural Communities of Vermont from the Ground Up: Wetland, Woodland, Wildland	<b>Kerrie M. Sendall</b> Some Like it Hot: Effects of Climate Change on Salt Marsh Plant Communities	<b>Samantha Callaway</b> The Impact of Corn Harvesting on Mammals	<b>Gregory S. Keller</b> Effects of Urbanization and Non-native Plantations on Icelandic Birchwood Songbird Populations	<b>Samantha Rutledge</b> Birds of a Feather Caught Together: Flocking Species are Overrepresented in Museum Collections
4:16–4:38	<b>Ayla Skorupa</b> Habitat Predicts Abundance of Five Freshwater Mussel Species in Massachusetts	<b>Frank Gallo</b> Birding in Connecticut: A Comprehensive Site Guide	<b>Ayo Andra J. Deas</b> The Core Of It All: From the Forest To the Concrete Jungle	<b>Valerie Bolduc</b> How Does Human Activity Affect Wildlife Use of Existing Highway Crossing Structures?	<b>Lucas Leveau</b> Latitude and Urban Green-space Size Influence Raptor Species Richness and Functional Composition in Neotropical Cities	<b>Jeremy J. Kirchman</b> New Educational Materials and a New Birds of New York Exhibit at the New York State Museum
4:38–5:00	<b>Jennifer E. Ryan</b> Mitigating Contamination for In-vitro Propagation of Dwarf Wedgemussel	<b>Lauren Brown &amp; Ted Elliman</b> Grasses, Sedges, Rushes	<b>Moey Rojas</b> Environmental Predictability: A Missing Link in Climate Change Sensitivity Research	<b>Lina Swislocki</b> Using Trail Cameras to Survey Mammals in Distinct but Linked Parcels in the Lower Winooski Watershed; Comparing the Intervale, Pine Island, and Sunderland Brook	<b>David C. Morimoto</b> Urban Birds Related to Habitat, Population Density, and Socioeconomics in Cambridge, Massachusetts, USA: Scaling Biodiversity Immersion in Cities	<b>Nathaniel Sharp &amp; Bridget Butler</b> Birder Broker: A Matchmaker Service for Curious Landowners and Experienced Birders
5:00–5:22	<b>Rebecca Quail</b> Heading off the Loss: Freshwater Mussel Relocation to Jump Start Restoration on the Grasse River, Massena NY	<b>Jerry Jenkins</b> Making Field Guides Work	<b>Jake J. Grossman</b> Spatial and Temporal Patterns in the Drought Vulnerability of the Maples ( <i>Acer</i> spp.)	Q & A	<b>Katherine S. Wydner</b> Birds and the City: FeederWatch Reveals How a Winter Urban Bird Community Can Change In Seven Years	<b>Logan R. Kline</b> Collaboratively Counting Birds: Harnessing the Skillsets of a Transdisciplinary Team to Improve Wildlife Surveys
5:22–5:30	Q & A	Q & A	Q & A		Q & A	Q & A





10:52 AM -12:30 PM	Saturday Concurrent Sessions 2					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Fish Biology II: Anatomy, Physiology, Behavior</b>	<b>Coastal Marine Habitats of the Northwest Atlantic</b>	<b>How to Make Meaning of Citizen Science Data on the Natural World II</b>	<b>SPARCnet: The Salamander Population and Adaptation Research Collaboration Network</b>	<b>Expanding the Northeastern Motus Network</b>	<b>Avian Nesting Biology</b>
Moderator	<b>Rick Van de Poll</b>	<b>Agnes Mittermayr</b>	<b>Corey Callaghan</b>	<b>Caitlin Fisher-Reid</b>	<b>Todd Alleger</b>	<b>Scott Stoleson</b>
10:52-10:54	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:54-11:16	<b>Aaron B. Steiner</b> Development and Regeneration of the Lateral Line Sensory System in the Zebrafish, <i>Danio rerio</i>	<b>Mark Borrelli</b> Mapping in Extreme Shallow Waters and Providing Useful Data to Scientists, Managers, and the Public	<b>Michael W. Belitz</b> Addressing Biases in Community Science Data to Document Phenology Patterns at Broad Spatial and Phylogenetic Scales	<b>M. Caitlin Fisher-Reid</b> Introduction to SPARCnet and <i>Plethodon cinereus</i> (Eastern Red-backed Salamander)	<b>Marc Nutter</b> An Overview of the New England Interior Motus Project	<b>Emily W. Johnson</b> An Assessment of Interclutch Variability in Egg Characteristics in Two Species of Rail
11:16-11:38	<b>Daniel P. Welsh</b> Patterns of Variation in Size of Fish Scales within Individuals and across Populations	<b>Sean Terrill</b> Augmenting Benthic Habitat Classification with Low-cost Imagery: An Application of the Coastal and Marine Ecological Classification Standard (CMECS)	<b>Toni Lyn Morelli</b> How Citizen Science Can Help to Update Agency and Park Biodiversity Lists	<b>Jill Fleming</b> Range-wide Density Estimates of a Forest Indicator Species	<b>Stu Mackenzie</b> What Can Motus Do for You?	<b>Lucas J. Redmond</b> Factors Influencing Clutch Size and Egg Mass in Gray Catbirds
11:38-12:00	<b>Bronwyn H. Bleakley</b> Physiology of Cooperative Antipredator Behavior in Trinidadian Guppies	<b>Holly K. Plaisted</b> The Influence of Rising Water Temperature on Eelgrass in the Northeast USA	<b>Panel Discussion: How to Make Meaning from Citizen Science Biodiversity Data</b>	<b>Brandon P. Hedrick</b> Effects of Coverboard Age and Aging on Salamander Usage	<b>Carol Foss</b> Rusty Blackbird Research: A Motus Case Study	<b>Henry S. Pollock</b> What the Pluck? Extraction of Mammal Hair by Tits (Paridae) is a Rarely Documented but Common Behavior with Potentially Important Fitness Implications
12:00-12:22	<b>Simon P. Pearish</b> Individual and Population Differences in Schooling Behavior	<b>Megan P. Fass</b> <i>Fucus serratus</i> (Fucaceae) In Nova Scotia Forms A New Pattern Of Intertidal Zonation In The Western Atlantic	Q & A	<b>Masie MacKnight</b> Methods for Surveying <i>Plethodon cinereus</i> Using Passive Integrated Transponder (PIT) Tags in a Forested Habitat	<b>Panel Discussion</b> Motus Questions and Answers (Marc Nutter, Carol Foss, Stu Mackenzie, Scott Wiedensaul, Todd Alleger, and Alison Fetterman)	<b>Martha I. Ortiz-Carvalho</b> Cordilleran Flycatcher Brood Food Delivery: Does it Change Along the Day?
12:22-12:30	Q & A	Q & A		Q & A	Q & A	Q & A



9:30–11:08 AM	Sunday Concurrent Sessions 1					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Horseshoe Crab Ecology I</b>	<b>Insect Movement, Phenology, and Conservation</b>	<b>Urban Ecology and Environmental Justice II</b>	<b>Biodiversity in Pine Barrens and Heathlands II</b>	<b>Full-cycle Nightjar Monitoring in Eastern North America</b>	<b>Avian Habitat Use and Ecology II: Forests Here and There</b>
Moderator	<b>Mark Botton</b>	<b>James Michielini</b>	<b>Aaron Grade</b>	<b>Michael Akresh</b>	<b>Logan Parker</b>	<b>Chris Rimmer</b>
9:30–9:32	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
9:32–9:54	<b>Christina P. Colon</b> Ecology, Distribution, and Microbiome of Juvenile American Horseshoe Crabs at Plumb Beach, Jamaica Bay, NY	<b>Brendan D. Carson</b> Integrating Larval Movement and Adult Oviposition to Estimate Rates of Disease Spread in the Baltimore Checkerspot Butterfly	<b>Nicholas Geron</b> Watered Down Stewardship: How Residential and State Stewardship Regimes Inform Juvenile Tree Survivorship	<b>Michael Akresh</b> Incidental Observations of Snakes and Game Birds in a Managed Pine Barren in Massachusetts	<b>Marja Bakermans</b> Habitat Selection by Eastern Whip-poor-will on Migration and Winter Locations	<b>Rebecca Bracken</b> Diversity of Birds Overwintering in Multiple Stand Stages within a Private Working Forest
9:54–10:16	<b>Hope VanDerwater</b> Effects of the Glyphosate-based Herbicide Roundup® on Survival and Development of American Horseshoe Crab Embryos	<b>Julia M. Pupko</b> Lady Beetles of Vermont: Invasions, Extirpations, and Recent Discoveries from Community Scientists	<b>Alexandra Cook</b> Tidal Marsh Sparrows in Urban Marshes of New York City in Dire Need of Habitat Restoration	<b>Steven P. Campbell</b> Population Response of the Endangered Karner Blue to Recovery Efforts at the Albany Pine Bush Preserve	<b>Elora R. M. Grahame</b> Monitoring Nightjar Nests through the Post-fledging Period Reveals the Importance of Evaluating Chick Survival beyond the Nestling Stage	<b>Chris Rimmer</b> Overwinter Status of Bicknell's Thrush ( <i>Catharus bicknelli</i> ) in Eastern Cuba
10:16–10:38	<b>Alex Amankwah-Asarel</b> Horseshoe Crab Interactions within a Newly Restored Fringing Marsh of Stratford Point, Connecticut	<b>James Michielini</b> Changes in Phenology Predict Abundance Trends in Massachusetts Butterflies	<b>Kathleen E. Farley</b> Can Post-industrial Sites Provide Adequate Habitat for American Woodcock?	<b>Amanda Dillon</b> Studying the Solitary Bee Community and its Response to Management at the Albany Pine Bush Preserve	<b>Aaron Skinner</b> Breeding-winter and En Route Migratory Connectivity of Eastern Whip-poor-will From the Midwestern US	<b>Nicholas J. Russo</b> Movement Ecology of Hornbills and Spatial Patterns of Seed Dispersal in Cameroon
10:38–10:46	Q & A	Q & A	<b>Daniel R. Ardia</b> Landscape Ecology of Forest Mammals along a Gradient of Urbanization: A Hierarchical Scale Approach	Q & A	<b>Elly Knight</b> The Big Boom Theory: Interpretation and Application of the Common Nighthawk Wingboom Display	Q & A
10:38–11:00						
11:00–11:08			Q & A		Q & A	

11:15 AM -1:15 PM	Sunday Concurrent Sessions 2					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Horseshoe Crab Ecology II</b>	<b>Herps: Impacts of the Anthropocene</b>	<b>Native Plants and Native Pollinators II: Conservation Strategies</b>	<b>Pitch Pines and Pine Barrens: Natural History and Human Influence</b>	<b>Management Impact on Birds</b>	<b>Life Histories of Northeastern Arthropods</b> ----- <b>Bat Conservation: Light Pollution and White Nose Syndrome Management</b>
Moderator	<b>Mark Botton</b>	<b>Anna Thonis</b>	<b>Kathleen Englemann</b>	<b>Jessica Gurevitch</b>	<b>Marja Bakermans</b>	<b>Jason Lusier</b>
11:15-11:17	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Arthropods: Introduction & Overview
11:17-11:39	<b>Daphne M. Munroe</b> Using Sonar to Study Horseshoe Crab Behavior at Oyster Farms	<b>Haley Synan &amp; Anne Christopher</b> Effects from Light and Noise Pollution on Gray Treefrogs and Green Frogs In Syracuse, NY	<b>Elizabeth A. Cowles</b> Anthropogenic Deserts: How We Can Reverse Course to Assist Pollinators	<b>Neil Gifford</b> Shifting Paradigms: Ecosystem Restoration is not Maintenance in Degraded Pitch Pine-Scrub Oak Barrens	<b>Scott H. Stoleson</b> If You Build It, Will They Come? Efficacy of Northern Saw-whet Owl Nest Boxes in Hardwood Forest	<b>Jennifer L. Apple</b> Habitat, Life History, and Phenology of a Non-Native Ant-Mimicking Spider, <i>Myrmarachne formicaria</i>
11:39-12:01	<b>Justin J. Bopp</b> Stable Isotopes Reveal Contrasting Trophodynamics across American Horseshoe Crab Age Groups	<b>Nicole Dahrouge</b> The Influence of Salinity and Fluctuating Temperature Regimes on Wood Frog Tadpoles Within Vernal Pools	<b>Gabriel Mongeau &amp; Hartley Walker Money</b> Japanese Knotweed Management and Restoring Native Species to a Riparian Zone in the Mid-Hudson Valley	<b>Mark Lesser</b> A Tale of Two Trees: Effects of Climate Change on Growth of <i>Pinus rigida</i> and <i>Pinus banksiana</i> at Opposing Range Margins	<b>Lucy Zipf</b> Investigating the Effects of Management of Artificial Nest Boxes on Bird Reproductive Performance in Massachusetts Conservation Areas	Q & A (12:01-12:09)
12:01-12:23	<b>Royall McMahon Ward</b> Patterns of <i>Bdelloura candida</i> Infestation in a Population of <i>Limulus polyphemus</i> from Jamaica Bay, NY	<b>Amanda L. Lyons</b> Population Genetics of Diamondback Terrapins at Their Northern Range Edge	<b>Sydney Lonker &amp; Madeline Buehrer</b> Surveying Insect Populations and Vegetation in Nonagricultural Landscapes Within the Mianus River Gorge	<b>Ashley Morris</b> Predicting Novel Insect-Host interactions in an Expanded Range using Fungal Associates in the Southern Pine Beetle System	<b>Nancy M. Raginski</b> The Influence of Pine Management on Grassland-nesting Birds Overwintering in Central Louisiana, USA	Bats: Introduction & Overview (12:21-12:23)
12:23-12:45	<b>Mark L. Botton</b> Patterns of Carapace Condition and Epibiont Distribution on Horseshoe Crabs from Two Northeastern Bays	<b>Anna Thonis</b> Variation in Body Condition and Damage in Eastern Box Turtles ( <i>Terrapene carolina</i> ) on Long Island, New York	<b>Robert J. Gegear</b> Conservation Behavior of Native Plant-Pollinator Systems	<b>Matthew E. Aiello-Lammens</b> Dwarf and Normal Pitch Pine Populations Respond Differently to Fire: Results From a Long-Term Monitoring Survey	<b>Sam Parks</b> Increases in Avian Diversity Following Group-selection Timber Harvests in West-central New Hampshire	<b>Robert Kwiat</b> Whole-room Ultraviolet Sanitization as a Method for the Site-level Treatment of <i>Pseudogymnoascus destructans</i>
12:45-12:53	Q & A	Q & A	Q & A	Q & A	Q & A	<b>Chad Seewagen</b> An Experimental Test of the Effects of Artificial Lighting at Night on the Foraging Activity of a Connecticut Bat Community
12:45-1:07						
1:07-1:15						Q & A

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Krsnak	Emily	Soil Microarthropod Abundance and Diversity in Native Meadows which have Transitioned from Agricultural Crop Production
Mills	Cassidy	Describing Genetic Diversity in a Non-Native Ant-Mimicking Spider
Ophals Van Alstine	Julia Niaomi	Success of Batesian Mimicry in the Ant-mimicking Spider <i>Myrmarachne formicaria</i>
Wolf	Alexandra	Heterogeneity in Monarch Butterfly Movement
<b>Avian Behavior and Parental Care</b>		
Boyle	Margaret	Social-network Structure in Winter Flocks Involving Chickadees and Titmice in New York
Carro	Mariana Emilia	Exploring Object Neophobia in Wild Nesting House Wrens
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Freeman	Hailey	The Effects of Early Life Adversity during Postnatal and Adolescent Periods on Zebra Finches
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<b>Avian Diets and Habitat</b>		
Castillo	Joanna	Diet Composition of Hudsonian Godwit in a Coastal Wetland of Patagonia Argentina
Farrell	Alexandra	Patterns of Change: Potential Effects of Land-cover Change on Raptor Species in the Great Basin Region
Loi Kwasinski	Cynthia Victoria	Nutritional Quality of Native and Non-Native Fruits for Migratory Songbirds
Mayne	Samuel	Songbirds Provide Pest-control Services on New England Farms
Romaker	Bailee	Uncovering Bird Diets on Kenyan Coffee Farms
<b>Avian Habitat Use and Ecology</b>		
Gianvecchio	Michelle	Extrinsic and Intrinsic Factors Influence Energetic Condition of <i>Catharus</i> Thrushes at a Northern Stopover Site
Lindsteadt	Audrey	Potential Niche Differentiation During the Breeding Season Among Two Generalist Insectivores: Eastern Bluebird and House Wren
Schlener	Jenna	Winter Raptor Abundance and Distribution in Addison County, Vermont
Stokes	Brian	Examining Breeding Habitat of <i>Setophaga caerulescens</i> (Black-throated Blue Warbler) in Northeastern Forests
Thornton	Lara	Do Fires Change <i>Rhea americana</i> (Greater Rhea) Habitat Use? Study in the El Palmar National Park, Argentina

### **Avian Migration**

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Cuadros	Sandra	Broad-winged Hawks Overwintering in the Neotropics: Landscape Composition and Threats in Their Wintering Areas
Hoh	Rachael	Physiological Condition of Passerines During Fall Migration Stopover Near Lake Ontario
Jahn	Alex	Highly Variable Seasonal Movements of Individual Snail Kites in South America

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Buddy	Miles	Eye Morphology and Activity Pattern in Ammospiza Sparrows
Krajcir	Kevin	Comparative Physiology of Two Cardinalid Species in a Heavily Modified Habitat
Tanaka	Tomonori	Osteological histology of the Cretaceous Seabird <i>Pasquiaornis</i> (Avialae, Hesperornithiformes): Implications for the Flight Ability of the Basal Hesperornithiforms
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Augustine	Stephanie	Influence of Elevation on Canada Warbler Population Dynamics in the Central Appalachian Mountains
Maenza-Gmelch	Terryanne	Assessment of Bird Community Stability in the Hudson Highlands West Important Bird Area, New York
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### **Breeding and Nesting Biology of Birds**

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Gamblin	Anna	Lead Concentrations in Black Vultures at Two Solid Waste Management Facilities in Mississippi
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Nealon	Kelly	Introduction of Native <i>Podostemum ceratophyllum</i> Michx. (Podostemaceae, Hornleaf Riverweed) into the Norwalk River, Wilton, CT
Racz	Nadia	Zebra Mussels: Are They Truly Harmful?
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Ash	Lauren	The Impact of Host Diversity on Ranavirus Prevalence in Vermont Amphibian Communities
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Lenberger	Brandon	Assessing The Nutrient-Removal Potential of Floating Treatment Wetlands In A Mesocosm Field Experiment
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Kolozsvary	Mary Beth	Creating Learning Opportunities and Community Partnerships to Advance Invasive Species Awareness and Management
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