

8:10-9:20	<b>Saturday Concurrent Sessions - Morning I</b>					
	Room A	Room B	Room C	Room D	Room E	Room F
	<b>Ecology of New York City</b>	<b>Natural Systems Through a Wide-Angle Lens</b>	<b>Invertebrate Vectors of Disease in the Northeast I</b>	<b>Northeastern Pollinators: Ecology &amp; Conservation I</b>	<b>Using Undergraduate Courses to Advance Conservation at the Local Level I</b>	<b>Invasives</b>
Moderator	<b>Chris Nagy</b>	<b>Allyson Jackson</b>	<b>Cat Miller</b>	<b>Molly Jacobson</b>	<b>Mike Rubbo</b>	<b>Steve Young</b>
8:10-8:15	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
8:15-8:35	<b>Lydia Paradiso</b> A Checklist of the Spontaneous Plants of New York City	<b>Shloka Janapaty</b> A New Estimate of Biocrust Contribution to Carbon and Nitrogen Flux in Global Terrestrial Ecosystems	<b>Morgan Regnier</b> The Relative Respiration Rate Between Engorged and Non-engorged Ticks in the Deer Tick, <i>Ixodes Scapularis</i> : Ixodidae Say (Acari: Ixodidae)	<b>Jessie Thuma</b> Nutrient Enrichment and Rainfall Affect Plant Phenology and Floral Resource Availability for Pollinators	<b>Dan Bogan</b> Engaging Undergraduates with a BioBlitz and Snapshot USA to Contribute to Wildlife Conservation	<b>Christopher Bloch</b> Have Asian Shore Crab Populations in Southern New England Gone Bust?
8:35-8:55	<b>Tohmi Barrett</b> Inspiring Environmental Stewardship in an Urban Landscape by Increasing Science Accessibility and Building Community	<b>Alebel Melaku Kolech</b> The State-of-the-Art and Future Directions on Sacred Forests and Ecosystem Benefits	<b>Sage Tocci</b> Determining Mobility of <i>Ixodes scapularis</i> on Different Fabric Substrates	<b>Rachel Bonoan</b> Effect of Decreased Snowpack on a Rare Butterfly's Host Plant	<b>Danielle Garneau</b> Plethodon, Plates, and PCR: A Classroom Case Study of Herpetofaunal Microbiome-Diversity Patterns in Northern NY	<b>Michael Clarke</b> Combating Invasive Stiltgrass ( <i>Microstegium vimineum</i> ): A Cost-Benefit Analysis of the Efficacy of Four Organic Management Methods
8:55-9:15	<b>Christopher Nagy</b> Recent Range Expansion of the Eastern Coyote in NYC and Long Island	<b>Richard Stafursky</b> Species' Forest Model for the Return of the Natural Landscape	<b>Joseph Staples</b> Of Mites and Mosquitoes: A Survey and Discussion of Aquatic Mites and Their Mosquito Hosts in Maine	<b>Hayley Kolding</b> How Can Land Trusts Protect the Unique Environments in Utility Rights-of-Way	<b>Open Forum:</b> Free-ranging, moderated discussion, networking, and brainstorming on using undergraduate courses to advance conservation at the local level	<b>Open Forum on Invasives</b> A chance for those interested in invasive species to discuss and brainstorm on current pressing concerns including the merits of launching a new Northeast Invasives journal.
9:15-9:20	Q & A	Q & A	Q & A	Q & A		Q & A

Saturday Concurrent Sessions - Morning II						
10:10-12:00	Room A	Room B	Room C	Room D	Room E	Room F
	Use of Camera Traps in Ecological Studies	Bedrock to Birds: Dispatches from the Field of Natural History Education I	Gulls and Seabirds: Northeast & Northwest I	Stream and Wetland Ecology	Using Undergraduate Courses to Advance Conservation at the Local Level II	Integrating Climate Change Science Into University Curriculum Design
Moderator	Kate Cleary & Glenn Johnson	Alicia Daniel	John Anderson	Jay Cordeiro	Mike Rubbo	Gaytha Langlois
10:10-10:15	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:15-10:35	<b>Katherine Cleary</b> A Low-Labor, Non-Invasive Method for Characterizing Small-Mammal Communities	<b>Evan Horne &amp; David Maroney</b> How to Train a Naturalist?	<b>Jeff Spendelow</b> The Critical Importance of Staging Areas at Cape Cod National Seashore to Endangered Roseate Terns	<b>Joseph Pervier</b> Aquatic Macroinvertebrate Communities Across a Suburban Gradient in Southeastern Massachusetts	<b>Mike Rubbo</b> Using Undergraduate Courses to Support Local Conservation: From Biodiversity to Water Quality	<b>Josh Turner</b> Field Studies for Climate Change Education
10:35-10:55	<b>Erika Barthelmess</b> The Devil is in the Details: Managing Data in Camera Trapping Studies	<b>Alicia Daniel</b> Let Them Eat Cake: Cooking up a Vermont Master Naturalist Program	<b>Liam Taylor</b> Outbreak and Epidemic Burnout of Highly Pathogenic Avian Influenza (HPAI) at a Herring Gull Breeding Colony	<b>Luke Myers</b> Northeastern US Status Assessment of Stonefly (Insecta, Plecoptera) Regional Species of Greatest Conservation Need	<b>Richard Feldman</b> Project-based Capping Course Addresses Environmental Concerns for Nearby Municipalities and Marist College	<b>Taylor Vahey</b> Visualizing Climate Change Across Academic Disciplines
10:55-11:15	<b>Stephanie Cunningham</b> Utility of Camera Traps for Assessing Productivity in a Forest Carnivore	<b>Thor Hanson</b> The Storytelling of Science	<b>Kate Sheehan</b> Evolution Beyond the Fish: <i>Schistocephalus solidus</i> in Avian Hosts	<b>Pamela Hunt</b> Status and Conservation of Northeastern Endemic Damselflies	<b>Mary Beth Kolozsvary</b> Engaging Undergraduates and Community Partners in Local Biodiversity Conservation	<b>Gaytha Langlois</b> A Case-Study Approach for Untangling Community Land-Use Challenges and Sustainable-Energy Installations

11:15–11:35	<b>Alexej Siren</b> Northeast Wildlife Monitoring Network (NEWMN): A Unifying Framework for Regional Collaboration Using Autonomous Monitoring Units	<b>Rosemary Mosco</b> Pigeon Watching: How it can Make You a Better Naturalist (Really)	<b>Eleanor Gnam</b> The Natural History and Ecology of the Leach’s Storm-Petrel on Great Duck Island, Maine	<b>John Ludlum</b> Status of a Population of Eastern Pearlshell Mussels in Massachusetts	<b>Eli Dueker</b> Bard Community Sciences Lab: Building Bridges Between Academia and Place-based Realities	<b>Gao Niu</b> Climate Change Basics for College Students
11:35–11:55	<b>Erin Geibel</b> Occupancy and Detection Patterns of Carnivores Along the C&O Canal National Historical Park	Q & A	<b>Rosie Chater</b> Either Far Out or In Deep: An Inter-Island Comparison of Herring Gull Nesting Colonies on Great Duck Island and Mount Desert Rock, Maine	<b>Ian Ives</b> Wetland Restoration and Habitat Management Practices to Establish Viable Populations of the Eastern Spadefoot Toad: A 12-year Case Study	<b>Open Forum:</b> Free-ranging, moderated discussion, networking, and brainstorming on using undergraduate courses to advance conservation at the local level	<b>Robert Patalano</b> Climate Knowledge Mobilization and Engagement with “Non-Major” Undergraduate Students
11:55–12:00	Q & A		Q & A	Q & A		Q & A

1:30-3:00 Saturday Concurrent Sessions - Afternoon I						
	Room A	Room B	Room C	Room D	Room E	Room E
	<b>Animal Bioacoustics</b>	<b>Every Cog and Wheel: Celebrating Efforts to Catalogue &amp; Protect the Biodiversity of Vermont</b>	<b>Gulls and Seabirds: Northeast &amp; Northwest II</b>	<b>Why Ferns Grow Where They Do: Ecological Determinants of Species Distribution</b>	<b>Peatland Ecology</b>	<b>Swallow Research &amp; Conservation</b>
Moderator	<b>Cathy Bevier</b>	<b>Liz Thompson</b>	<b>John Anderson</b>	<b>Dave Barrington</b>	<b>Grace Glynn</b>	<b>Pam Hunt</b>
1:30-1:35	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:35-1:55	<b>Catherine Bevier</b> Using Passive Acoustic Monitoring to Assess Chorus Activity and Health in Green Frogs	<b>Robert Zaino</b> Vermont Conservation Design and a Vision for an Ecologically Functional Landscape	<b>Dave Moore</b> Migration and Winter Distribution of GPS-tagged Ring-billed Gulls ( <i>Larus delawarensis</i> ) Breeding at Hamilton, ON, Canada	<b>Sarah Morris</b> Evolutionary Trends in <i>Pleopeltis</i> (Polypodiaceae), The Resurrection Ferns	<b>Nancy Olmstead</b> Maine's Freshwater Peatlands: Diverse Communities, Centuries of Carbon	<b>Jonathan Atwood</b> Barn Swallow Colony Relocation in Western Massachusetts
1:55-2:15	<b>Laura May-Collado</b> Whale Communication During Widespread Systematic Noise Reduction: A Natural Experiment Amid COVID-19	<b>Art Gilman</b> New Perspectives on Diversity of Vascular Plants in Vermont	<b>Wriley Hodge</b> Colony Conundrums: Factors Impacting Nesting Density and Distribution in a Colonial Seabird	<b>Morgan Southgate</b> Experimental Assessment of Allopolyploid Gametophyte Ecology in the <i>Adiantum pedatum</i> Complex	<b>Susan Adamowicz</b> Looking to the Past to Protect the Future: Farmers in the Marsh and "SMARTeams"	<b>Mara Silver</b> Review of Conservation Measures to Increase Breeding Success of Cliff Swallows ( <i>Petrochelidon pyrrhonota</i> ) in Massachusetts
2:15-2:35	<b>Emily Anderson</b> Accounting for Undesirable Ambient Noise During Surveys Increases Avian Population Size Estimates	<b>Pete Kerby-Miller</b> Empowering Connection and Conservation through Amphibian Community Science	<b>John Anderson</b> Glorious Birds; The Herring Gull/Cormorant Project and Seabird Conservation in the Northeastern United States	<b>Matthew Charpentier</b> Crepidomania: An Appeal to Botanists to Spend More Time Under Rocks	<b>Laura Hatmaker</b> Two Domes Diverged at a Stream Channel: A Coastal Raised Bog in Maine	<b>Pamela Hunt</b> Breeding Success in a Declining Cliff Swallow Population
2:35-2:55	<b>Michael Thompson</b> Processing BirdNET Sound ID to Maximize Identification Accuracy of Audio Files	<b>Matt Peters</b> Red Cedar Woodlands in Vermont: An Overlooked Form of Old Growth and Potential Climatic Record	Q & A	<b>James Watkins</b> A Preliminary Exploration of Stress Physiology in the Wood Fern Genus <i>Dryopteris</i>	<b>Lindsey Pett</b> Suppression of Microbial Communities within <i>Sarracenia purpurea</i>	<b>Luke Tyrell</b> The Hawk-eyed Songbird
2:55-3:00	Q & A	Q & A		Q & A	Q & A	Q & A



8:10-9:20	Sunday Concurrent Sessions - Morning I					
	Room A	Room B	Room C	Room D	Room E	Room F
	<b>Forest Ecology I: Critical Insights for Conservation</b>	<b>Plant Monitoring and Population Assessments: Vital First Steps in the Conservation of Species</b>	<b>Invertebrate Vectors of Disease in the Northeast II</b>	<b>Urban Ecology</b>	<b>Mammal Surveys</b>	<b>Aquatic Botany</b>
Moderator	<b>Molly Heit</b>	<b>Bob Popp</b>	<b>Cat Miller</b>	<b>Erica Holm</b>	<b>Mike Bottini</b>	<b>Don Padgett</b>
8:10-8:15	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
8:15-8:35	<b>Jordon Tourville</b> Mycorrhizal Fungi as Critical Players for Tree Seedling Establishment During Range Expansions	<b>Michael Piantedosi</b> New England Plant Conservation Program: Conservation Action Guided by Field Monitoring	<b>Catherine Miller</b> Analysis of Invasive <i>Aedes japonicus</i> Populations and Bloodmeals in Rural, Suburban, and Urban Land-use Conditions	<b>Marie Bouffard</b> Mapping a Greener Future	<b>Camilo Calderón Acevedo</b> The New York Mammal Survey	<b>Alex Petzke</b> Halophyte Floristics of the Inland Salt Marshes of Central New York
8:35-8:55	<b>Molly Heit</b> Exploring American Chestnut Ectomycorrhizal Communities Across a Nitrogen Deposition Gradient in the Adirondacks	<b>Aaron Marcus</b> What Can 10,000 Plant Populations Tell Us After 40+ Years of Natural Heritage Monitoring?	<b>Mackenzie Sky</b> Mitogenomic Analysis of Schistosomatidae Evolution and Diversification	<b>Erica Holm</b> Practicing Applied Urban Ecology in Massachusetts	<b>Sophie Mazowita</b> Comparing Camera Traps and Track and Sign Surveys for Mammal Detection: Lessons from a Community Wildlife Monitoring Program	<b>Vedant Janapaty</b> A Novel, Predictive Approach to Monitor Estuarine Eutrophication: A West Coast Case Study with Implications for Estuary Management in the Northeast
8:55-9:15	<b>Monica Edgerton</b> Do Larger Diameter Trees Allow for More Microhabitats and Impact Bird Abundance in Managed Forests?	<b>Bob Popp</b> Augmentation and Introduction of Populations of the Federally Endangered Jessup's Milk-vetch	<b>Natalie Barrett</b> Transmission of <i>Avipoxvirus</i> by Mosquitoes in Maine	<b>James Welch</b> Monitoring and Conserving a Spotted Turtle Population Inside Boston's Urban Landscape	<b>Michael Bottini</b> Long Island's Terrestrial Mammals: History and Survey Effort	<b>Donald Padgett</b> A Role for Aquatic Turtles in Dispersing Seeds of a Bird-dispersed Wetland Shrub
9:15-9:20	Q & A	Q & A	Q & A	Q & A	Q & A	

10:10-12:00 <b>Sunday Concurrent Sessions - Morning II</b>						
	Room A	Room B	Room C	Room D	Room E	Room F
	<b>Ecology of Reptiles &amp; Amphibians</b>	<b>Bedrock to Birds: Dispatches from the Field of Natural History Education II</b>	<b>The Field Naturalist Program: Connecting Conservation Needs with Moxie</b>	<b>Northeastern Pollinators: Ecology &amp; Conservation II</b>	<b>Mammal Ecology &amp; Conservation</b>	<b>Nurturing an Environmental Ethic: A Natural Science Education from Childhood to Adulthood</b>
Moderator	<b>Brian Bastarache</b>	<b>Alicia Daniel</b>	<b>Dylan O'Leary</b>	<b>Molly Jacobson</b>	<b>Mike Bottini</b>	<b>Lisa Purcell</b>
10:10-10:15	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:15-10:35	<b>Tom Tynning</b> Arboreal Behavior in a New England Rattlesnake	<b>Kate Burnaby</b> Rewilding Our Narratives	<b>Charlotte Cadow</b> Black Ash: Managing a Culturally Significant Tree in the Midst of the Emerald Ash Borer Infestation	<b>Spencer Hardy</b> Miners and Nomads: Kleptoparasitism and Conservation in Two Fascinating Bee Genera	<b>Hope Vanderwater</b> Investigating Effects of LED Light Pollution on the Activity and Presence of Insectivorous Bats and their Arthropod Prey	<b>Hilary Redman</b> Nurturing a Sense of Wonder in Early Childhood
10:35-10:55	<b>Elizabeth Bastiaans</b> Thermal Acclimation Across the Active Season of Wild, Free-living Eastern Red-backed Salamanders	<b>Heather Fitzgerald</b> Teaching What We Need to Learn	<b>Erica Hample</b> Montpelier PLACE: Ecological Assessment, Management, and Connection in Vermont's Capital City	<b>Erin White</b> A Multi-taxonomic Survey to Determine the Conservation Status of Native Pollinators	<b>Joseph Webb</b> Demographic Shifts and Ecological Interactions: Small-Mammal and Invertebrate Co-Occurrence and Avoidance in a Changing Vermont	<b>Chris Runcie</b> Community-School Collaboration for Natural Science Discovery, Exploration, and Experimentation
10:55-11:15	<b>Matthew Kaam</b> Increased Mortality in Adult and Juvenile Wood Turtles During Drought Years	<b>Teage O'Connor</b> Invasive Species as a Conduit for Connection	<b>Sonya Kaufman</b> Forest Health in the Ossipee and Waterboro Pine Barrens: Arrival of the Southern Pine Beetle	<b>Casey Johnson</b> Rhode Island Bumble Bee Survey and Clover Establishment for Bumble Bee Species	<b>Joshua Willems</b> Effects of Mast, Weather, and Forest Structure on Small-Mammal Abundance in the White Mountain National Forest, NH	<b>Sandra Fary</b> Biodiversity in the Classroom: A Campus Bioblitz and Bird-friendly Pollinator Garden

11:15–11:35	<b>Ben Phillips</b> Effects of Human Land Use and Landscape Context on Population Demographics of the Painted Turtle	<b>Carly Brown</b> “Wait? We’re Going Outside Today?” How Using Natural Phenomena Can Bridge the Classroom to the Outdoors	<b>Hayley Kolding</b> What First: Spring and Stream Conservation on a Half-Million Acre Ranch	<b>Matthew Pelikan</b> Beyond Sustainable: Enhancing Floral Resources for Insects on Farms	<b>Zachary Weitzman</b> Morphologic Change between Captive and Wild Small Mammals	<b>Claire O’Neill</b> Biodiversity Conservation Needs Natural History Participatory Science
11:35–11:55	Q & A	<b>Emily Beasley</b> Natural History Collections Facilitate Independent Learning in an Undergraduate Course	<b>Dylan O’Leary</b> Restoration Prioritization in the Sagebrush Sea: Geospatial Techniques and Ground Truthing Rock, Maine	<b>Marc Nutter</b> Lessons from the Field: Non-herbicidal Methods to Establish a Demonstration Pollinator Meadow	<b>Marianne Piché</b> The Conservation Strategy for the New England Cottontail ( <i>Sylvilagus transitionalis</i> ) and Adaptive Management	<b>Lisa Purcell</b> Cultivating an Environmental Ethic through Community-based Linkages
11:55–12:00		Q & A	Q & A	Q & A	Q & A	Q & A

Sunday Afternoon I						
1:30–3:00	<b>Plenary Session - Rooms B/C</b> <b>The Biology of Climate Change</b>					
	<b>with Thor Hanson,</b> Author, Biologist, and University of Vermont Field Naturalist Alum					
	Polar bears on shrinking icebergs are a potent symbol of climate change biology, but anyone who spends time in nature knows that there is a lot more to the story. In this plenary, author and biologist Thor Hanson explores the fraught and fascinating ways that species are responding to the climate crisis. Drawing on current science and stories from his latest book, Hurricane Lizards and Plastic Squid, Hanson shows how plants and animals are moving, adapting, and even evolving in real time, and how the sum of their reactions will determine the future.					
3:50–5:20	<b>Sunday Concurrent Sessions - Afternoon II</b>					
	Room A	Room B	Room C	Room D	Room E	Room F
	<b>Forest Ecology II: Trees of the Anthropocene</b>	<b>Biodiversity Conservation in Context: From Global to Local</b>	<b>Shifting Sands to Submerged Habitats: The Marine Ecosystem of Nauset Harbor, Cape Cod</b>	<b>Disease Ecology</b>	<b>Catamounts: Extirpation &amp; Restoration—Past, Present, Future</b>	<b>The Value of Professional Organizations for Wetland Scientists</b>
Moderator	<b>Molly Heit</b>	<b>Liz Thompson</b>	<b>Owen Nichols &amp; Agnes Mittermayr</b>	<b>Ericka Griggs &amp; Craig Frank</b>	<b>John Davis</b>	<b>Scott Smyers</b>
3:50–3:55	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:55–4:15	<b>Jay Kelly</b> A Tale of Two Forests: Comparing Primary and Post-Agricultural Forest Conditions in Northern NJ	<b>W. John Kress</b> Biodiversity Vermont: A Perfect Match for Regional, National, and Global Efforts to Conserve Biodiversity and the Planet	<b>Mark Borrelli</b> Undeveloped Barrier Spit Evolution and Inlet Migration: Nauset Inlet, Cape Cod, Massachusetts	<b>Andrew McCracken</b> Microbial Dysbiosis Precedes Signs of Sea Star Wasting Disease in Wild Populations of <i>Pycnopodia helianthoides</i>	<b>Shelby Pery</b> Determining Puma Habitat Suitability in the Eastern US and Other Recent Findings	<b>Scott Smyers</b> Association of Massachusetts Wetland Scientists: History, Mission, Objectives, Struggles, and Why You Should Consider Joining

4:15–4:35	<b>Christopher Nagy</b> Assessment of Understory Vegetation Recovery After 15 Years of Deer Management in a Remnant Old-growth Hemlock Forest and Adjacent Second-growth Hardwood Forest in Southern NY	<b>Curt Lindberg</b> Tackling Biodiversity Loss in Vermont: Lessons from Complexity Science and Healthcare	<b>Agnes Mittermayr</b> Using CMECS to Create and Compare Benthic Habitat Maps in Nauset Marsh, Cape Cod, MA	<b>Ericka Griggs</b> Examining the Relationship between Mercury Exposure and Infectious Disease Risk in Common Loons ( <i>Gavia immer</i> )	<b>Elizabeth Hillard</b> Potential Cougar Habitats and Dispersal Corridors in Eastern North America	<b>Kevin Ryan</b> The Utility, Achievements, and Future Endeavors of the Maine Association of Wetland Scientists
4:35–4:55	<b>Claire O'Neill</b> Keeping an Urban Forest Whole: The Power of Community-driven GIS-focused Participatory Science	<b>Brian Shupe</b> Biodiversity Vermont: An Emerging Coalition of Organizations Devoted to Biodiversity Restoration	<b>Owen Nichols</b> Intra-annual Distribution and Relative Abundance of Fishes and Invertebrates in Nauset Harbor	<b>Craig Frank</b> The Role of Cutaneous Lipids in the Resistance to White-nose Syndrome	<b>Christopher Spatz</b> Dead Cats Walking: The Limitations of Midwest Puma Recolonization and the Imperative for Eastern Reintroductions	<b>Mary Beth Poli</b> Creating a New Association While Honoring the Past: VWA to VAWS
4:55–5:15	Q & A	<b>Susan Hindinger</b> Vermont Atlas of Life 2013–2023: Mapping Biodiversity Now and in the Future	<b>Bryan Legare</b> Exploring the Complexity of the Nauset Harbor Ecosystem: A Multidisciplinary Approach	<b>Casey Pendergast</b> Northern Long-eared Bat Winter Diet and Feeding Activity in Coastal Populations Infected with White-Nose Syndrome	<b>Christa Rose</b> Carnivore Reintroductions: Before, During, and After—Variables and Case Studies to Consider for the Northeast	<b>Dwight Dunk</b> Role of a National Wetland Organization in a Region Saturated with State Organizations
5:15–5:20		Q & A	Q & A	Q & A	Q & A	Q & A