



The 1187th meeting of the New England Botanical Society will be held
Friday, 2 May 2025, at 6:30 PM ET PM at Garden in the Woods,
Native Plant Trust, Framingham, MA



PhD candidates & 2023 recipients of NEBS' Graduate Student Research Award

Meredith Elizabeth Theus

Department of Ecology and Evolutionary Biology, Cornell University, Ithaca, NY

“The Role of Plant Diversity in Wetland Greenhouse Gas Emissions”

AND

Andrea J. Tirrell

School of Biology & Ecology, Climate Change Institute, University of Maine, Orono, ME

“Alpine Plant Communities of Katahdin: A Resurvey After 33 Years”

PLEASE READ:

- 1) LOCATION OF MAY MEETING IS AT GARDEN IN THE WOODS (GITW), FRAMINGHAM, MA; IN PERSON ONLY:** GITW is a 45-acre naturalistic garden with a one-mile loop owned by [Native Plant Trust](#), which is celebrating its 125th year with a [125th Anniversary Symposium](#) on Saturday. The garden is located at 180 Hemenway Road, Framingham, and more information and a garden and parking map may be found at [Visit GITW](#) website.
 - **Admission:** Admission on Friday May 2 will be free for NEBS members and guests starting at the 10 AM opening. If arriving before 5 PM, please check in at the Visitors Center/Garden Shop. If arriving after 5 PM, the garden gate will be closed, but there is a call button.
 - **Parking:** Parking is available on site. If the lot is full, you can exit the Garden and park on the odd-numbered side of any of the side streets. Please be considerate of the neighbors and don't park on anyone's lawn or property.
 - **Education Building facilities:** The **presentations by two Graduate Student Research Award recipients will begin here at 6:30 PM (not 7 PM)**, so please finish your garden tour and picnic supper before then. Members and guests may use the outdoor picnic tables on the patio before 5 PM and the indoor space after 5 PM. Restrooms are in this building and the Visitor Center.
- 2) M.E. THEUS ABSTRACT:** Wetlands are large sources of greenhouse gases (GHGs), and plants influence GHG production, degradation, and transport pathways. However, it is unclear how plant diversity and the composition of species and traits influence GHG dynamics, despite the high levels of biodiversity supported by wetlands. In this study, I conducted a 5-month field experiment investigating the effects of different combinations of wetland plant species richness (1, 2, or 4 species) and functional diversity (1, 2, or 3 functional types) on GHG emissions. Preliminary data suggests that plant community diversity may influence the magnitude of GHG emissions as well as the soil nutrient and GHG profiles. Understanding how plant communities drive GHG emissions from wetlands may strategically be used to conserve, restore, and potentially, construct wetlands with lower emissions and allow for more accurate estimations of GHG fluxes.
- 3) A. J. TIRRELL ABSTRACT:** Katahdin, located in Baxter State Park, is home to the largest alpine zone in the state of Maine and harbors many uncommon, rare, or threatened arctic and alpine plant species. In 1989, Baxter State Park enlisted researchers Cogbill & Hudson to do a baseline vegetation survey in the alpine zone of Katahdin, in order to establish a record of Katahdin's various high elevation natural communities. Cogbill & Hudson established 16 transects across Katahdin's alpine zone. These transects were then relocated and resurveyed during the summers of 2021 and 2022, with the help of Baxter State Park and our original surveyors. By resurveying these transect sites, we can now make direct comparisons of plant presence and coverage after 33 years of climate change and increased hiker visitation.
- 4) GITW GARDEN SHOP OPEN UNTIL 6 PM FOR NEBS MEMBERS:** NEBS members and guests may purchase native plants, books, and other botanical items at Garden in the Woods in Framingham until 6 PM. On [Buy Native Plants](#) you will find the 2025 plant availability and price lists (in PDF and Excel). [Native Plant Trust books](#) written by authors who are also NEBS members include *The Northeast Native Plant Primer: 235 Plants for an Earth-Friendly Garden*, *Native Plants for New England Gardens*, *Wildflowers of New England*, *Grasses, Sedges, Rushes: An Identification Guide*, and *Flora Novae Angliae*.

- 5) **SUMMER DAY FIELD TRIPS:** The first trip will be on Saturday 14 June 2025 at Hinsdale Flats Wildlife Management Area in western Massachusetts. One of the trip leaders describes it as a “gonzo botany swamp slog exploration” and is definitely unique among NEBS summer field trips. Please check the [Upcoming Field Trips](#) webpage for this and future field trips, as well as links to registration forms.
- 6) **REGISTER NOW FOR SUMMER COLLECTING FIELD TRIPS (May 3 is the first):** Join the NEBS Herbarium Curators in Bennington County, VT, and Hampden County, MA, to collect specimens of the modern vascular and cryptogam flora (and lichens too!) for the herbaria. There are four scheduled collecting trips in summer 2025 on **May 3, May 31, June 29, and July 26**. Please find the registration forms for each on the [Upcoming Field Trips](#) webpage.
- 7) **SAVE THE DATES FOR OCTOBER CONFERENCE IN MAINE:** NEBS is excited to share that we will be hosting a conference with [Coastal Maine Botanical Gardens](#), *Plant Migration in a Changing Climate*, to be held **Friday-Saturday, October 3-4, 2025** at CMBG in Boothbay, ME. Visit [What's New](#) webpage for up-to-date information and be on the lookout for emails from Sarah Anacleto, our Coordinator of Operations and Membership, at coordinator@rhodora.org with more information.
- 8) **EAGLE HILL INSTITUTE DISCOUNTS TO NEBS (20%) & NEBS STIPENDS (\$150) FOR 3 STUDENTS, & EARLY REGISTRATION DISCOUNTS (3%/6%):** The [Eagle Hill Institute](#), Steuben, ME, is again offering NEBS members a 20% discount for their 2025 in-person summer week-long seminars (June-August). This discount is applied towards tuition and accommodations, but not meals or lab/microscope use fees. Also, NEBS will cover one stipend per year of \$150 towards costs for the first 3 NEBS STUDENT members who register for a summer botany course. This year Eagle Hill is also offering discounts on tuition if registering at least 8 weeks before (6%) or at least 4 weeks before (3%) and including a \$100 deposit with registration. Contact NEBS Coordinator of Operations & Membership at coordinator@rhodora.org for details and to apply. [Eagle Hill Seminar Calendar](#)
- 9) **NEXT NEBS MEETING – FRIDAY 27 JUNE 2025 AT NEW ENGLAND BOTANIC GARDEN AT TOWER HILL:** On Friday, June 27, 2025, **Mark Richardson**, Executive Director, US branch of Botanic Gardens Conservation International and Ecological Landscape Alliance, in addition to Director of Strategic Horticulture Partnerships for New England Botanic Garden at Tower Hill, Boylston, MA, will speak on "*An Introduction to Botanic Gardens Conservation International and the Ecological Landscape Alliance.*" The presentation will at 1 PM at [New England Botanic Garden at Tower Hill](#), 11 French Drive, Boylston, MA, followed by a field trip led by **Bob Wernerehl**. Please see [Upcoming Meetings](#) for full schedule.
- 10) **VIDEOS of PAST PRESENTATIONS:** Please see [Past Meetings](#) webpage for videos of past lectures, including Jeannine Cavender-Bares' April presentation.

The next Council meeting will be held 28 May 2025 from 6:00-7:00 PM ET via Zoom.

New England Botanical Society
Harvard University Herbaria, 22 Divinity Ave.,
Cambridge, MA 02138-2020

Membership
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[New England Botanical Society Brochure](#)

NEBS Corresponding Secretary
Nancy M. Eyster-Smith
neystersmith@bentley.edu

Upcoming Meetings
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