



The 1155th meeting of the New England Botanical Club, Inc. will be held **Saturday, 4 December 2021, at 7:00 PM EST via Zoom.**



**“Horticultural Escape and Naturalization of Umbrella Magnolia
(*Magnolia tripetala*) in the Northeastern U.S.:
Implications of Climate Change for Plant Conservation”**

**By
Dr. Jesse Bellemare
Associate Professor, Department of Biological Sciences
Smith College, Northampton, MA**

PLEASE READ:

- 1) **PRESENTATIONS & MEETINGS WILL CONTINUE TO BE VIRTUAL:** The link to join our Zoom Monthly Meetings will be reoccurring and is below. After this presentation, we invite attendees to stay on Zoom and participate in some “virtual visiting.” Feel free to provide your own refreshments!
- 2) **DR. JESSE BELLEMARE’S ABSTRACT:** Climate change is predicted to be a top threat to biodiversity in coming decades as climatic conditions shift faster than most species can adapt or migrate. Plants in particular appear to be lagging behind changing climate, or not shifting their distributions at all. However, in the eastern U.S., many native plant species are already grown horticulturally beyond their range boundaries, often 100s of kilometers to the north, and a subset of these species now appear to be escaping from horticulture and naturalizing in the northeastern U.S, potentially associated with recent climate change. Umbrella Magnolia (*Magnolia tripetala*) appears to be a prime example of this phenomenon: its historical native range extends north from the southeastern U.S. into Maryland and southern Pennsylvania, but numerous naturalized populations, often associated with horticultural specimens, have now established 200-300 km to the north in parts of eastern PA, NJ, NY, and southern and central New England. This phenomenon provides empirical evidence that human introductions, even if unplanned and unintentional, can facilitate the types of rapid, large-scale range shifts that are expected to be necessary for many plants in coming decades, but appear unlikely to occur with natural dispersal alone. Whether by natural dispersal or human intervention, the flora of the northeastern U.S. will likely see increasing numbers of southern plant species establishing in coming decades as climate continues to warm. Managing this dynamic may require a reappraisal of our static concepts around “native” species and how we view the establishment and spread of some “exotic” plant species, particularly if these species are declining in their historical native ranges to the south.
- 3) **VIDEOS of PAST PRESENTATIONS:** Please see [Past Meetings](#) for videos of past lectures, including Dr. Ignace’s November presentation.
- 4) **NEXT NEBC MEETINGS:** Please save the date for future presentations, which will continue to be at 7 PM EST on Saturdays for as long as we hold meetings via Zoom.
 - January 8, 2022 and February 5, 2022
- 5) **MEMBERSHIP RENEWALS ARE NOW DUE:** [Renew Your NEBC Membership for 2022 Here!](#)

6) **FUNDING OPPORTUNITIES OPEN 1 DECEMBER 2021- 1 FEBRUARY 2022):**

- **NEBC JUNIOR FACULTY AWARD ON THE FLORA OF NEW ENGLAND** – Applications are accepted from early-career, tenure-track faculty at any college or university in New England. Full requirements and application instructions can be found on the [Junior Faculty Award on the Flora of New England](#) web page.
- **NEBC LES MEHRHOFF BOTANICAL RESEARCH AWARD(S)** – Full details for project requirements and application instructions can be found on the [Les Mehrhoff Botanical Research Award](#) web page. Summaries of past funded projects and a button for donations to the fund can be found on the same web page.
- **NEBC GRADUATE STUDENT RESEARCH AWARD(S)** – Each year NEBC awards several thousands of dollars in support of botanical research conducted by graduate students. Full details for proposals and supporting letters can be found on the [Graduate Student Research Award](#) web page. Abstracts for previous recipients can also be found on this web page.

The Council will meet 5:00-6:30 PM on 1 December 2021 via Zoom.

ZOOM INVITATION FOR NEBC MONTHLY MEETINGS

Topic: NEBC Monthly Meeting

Date and Time: First Saturday of the month at 7:00 PM

Join Zoom Meeting

<https://zoom.us/j/98845538584>

Meeting ID: 988 4553 8584

One tap mobile

+19292056099,,98845538584# US (New York)

+13017158592,,98845538584# US (Germantown)

Dial by your location

+1 929 205 6099 US (New York)

+1 301 715 8592 US (Germantown)

+1 312 626 6799 US (Chicago)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

Meeting ID: 988 4553 8584

Find your local number: <https://zoom.us/u/adKxNNXCOj>

The New England Botanical Club

Harvard University Herbaria, 22 Divinity Ave.,
Cambridge, MA 02138-2020

NEBC Corresponding Secretary

Dr. Nancy M. Eyster-Smith
neystersmith@bentley.edu

NEBC Association Manager: Sara Helm-Wallace

nebc@rhodora.org

NEBC WEB SITE: <http://www.rhodora.org/>
[New England Botanical Club brochure](#)

[Mission and Vision Statements](#)
[Strategic Goals for 2020-2025](#)