



The 1157th meeting of the New England Botanical Club, Inc. will be held **Saturday, 5 February 2022, at 7:00 PM EST via Zoom.**



“Saving All Plants: Technologies to Extend *ex situ* Conservation to All Plant Species”
By
Dr. Valerie Pence
Director of Plant Research, Center for Conservation
and Research of Endangered Wildlife, Cincinnati Zoo & Botanical Garden
Cincinnati, OH

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. VALERIE PENCE’S ABSTRACT:** With increasing pressures from habitat loss, unsustainable harvesting and collecting, and climate change, the need for developing strategies for conserving the world's plant diversity is also increasing. Seed banks are critically important for creating an *ex situ* (off-site) repository of plant genetic resources as insurance against the loss of species in the wild. However, not all plant species can be conserved with conventional seed banking measures, which require drying the seeds and freezing them at -20°C. Such species are known as *exceptional species*, and *in vitro* technologies (plant tissue culture/cloning) and cryotechnologies (storage in liquid nitrogen at -196°C) are needed for their long-term banking in *ex situ* collections. This talk will explore what these technologies are and how they can extend conservation measures to include all plants.
- 3) **2022-2023 NEBS SLATE:** The Slate for 2022-2023 Council proposed by the Nominating Committee will be sent in a separate email later and is posted now on the [What's New](#) webpage. The vote will be taken at the Annual Meeting on 5 March 2022.
- 4) **VIDEOS of PAST PRESENTATIONS:** Please see [Past Meetings](#) for videos of past lectures, including the January presentations by three award winners (Dr. Sarah T. Bois, Dr Jay Wason III, Jacob Suissa)
- 5) **NEXT NEBC MEETING VIA ZOOM:** On Saturday, 5 March 2022, **Dr. Alan S. Weakley**, Director University of North Carolina-Chapel Hill Herbarium, Chapel Hill, NC, will speak on “**Taxonomy, Floras, and Plant Identification Tools for Biodiversity Conservation in the 2020s.**”
- 6) **MEMBERSHIP RENEWALS ARE NOW DUE:** [Renew Your NEBC Membership for 2022 Here!](#)

7) **FUNDING OPPORTUNITIES OPEN (DEADLINE 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 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 2 February 2022 via Zoom.

ZOOM INVITATION FOR NEBC MONTHLY MEETINGS

Topic: NEBC Monthly Meeting

Date and Time: First Saturday of the month at 7:00 PM; Second Saturday in January.

Join Zoom Meeting

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

Meeting ID: 988 4553 8584

One tap mobile

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Dial by your location

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+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

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NEBC WEB SITE: <http://www.rhodora.org/>
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