



The 1130<sup>th</sup> meeting of the New England Botanical Club, Inc. will be held  
**Saturday, 13 October 2018, at 7:00 p.m.** at the Fisher Museum,  
Harvard Forest, Petersham, MA



**“Things Fall Apart: Land-Use History, Non-Native Insects,  
Climatic Change, and the Decline of a Forest Foundation Species”**

**By**  
**Dr. Aaron Ellison**  
**Senior Research Fellow in Ecology, Harvard Forest, Petersham, MA**

**PLEASE READ:**

- 1) **ABSTRACT OF DR. ELLISON’S TALK:** Foundation species create and define particular ecosystems, control in large measure the distribution and abundance of associated flora and fauna, and modulate core ecosystem processes. In forests, foundation species are large, long-lived, late-successional trees whose ecological characteristics and functions rarely co-occur in other species. In New England, eastern hemlock (*Tsuga canadensis*) is the foundation species, but it is declining and dying throughout its range because of additive and interactive effects of climatic change, the nonnative hemlock woolly adelgid (*Adelges tsugae*), and anthropogenic activities. In this talk, I describe aspects of eastern hemlock’s unique ecological characteristics that contribute to its foundational role and discuss data from historical reconstructions, ongoing observations, and manipulative experiments at Harvard Forest and throughout southern New England aimed at understanding the structure and dynamics of the forests of our future.
- 2) **OCTOBER “AWAY” MEETING ON SATURDAY TO ALSO INCLUDE:**
  - Choice of field trip to Soapstone Hill and Gorge, Petersham, or dendroecology and tree-coring workshop (10 am – 4 pm)
  - Tour of [Hemlock Hospice](#) at Harvard Forest (4 – 5:30 pm)
  - Dinner time shared with other NEBC members and guests (5:30-7:00 pm)
  - [PDF of full schedule, directions, and dinner details](#)
- 3) **TO COVER FEES FOR THIS MEETING, REGISTRATION (FORM +\$20) IS REQUIRED BY FRIDAY, 5 OCTOBER 2018:** [Location of PayPal button](#), also includes the [Registration Form](#)
- 4) **NEXT NEBC MEETING:** On 2 November, Dr. Michael Dosmann, Keeper of Living Collections, Arnold Arboretum, Boston, MA, will speak at Harvard University on “Is Plant Exploration Dead in a Plant-Blind Era?” [Upcoming NEBC Meeting Dates](#)

*There will not be a Council meeting this month.*

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