



## INTRODUCTION TO LICHENS: BIOLOGY, ECOLOGY, AND COLLECTION

This online seminar will introduce participants to the identification, biology, ecology, and human uses of lichens with a focus on North America. Participants will learn terminology that describes characters of lichens and their lifestyles and how these characters are used to identify lichens. Participants will learn how to collect and prepare specimens so they can build a starter collection of their own. They have the option to share specimens with other participants so these can be identified and discussed during the seminar.

**Nov 3, 5, 7, 10, 12**  
**7–9 PM EDT**  
**\$225**

*Participants need to have a Zoom account (<https://zoom.us> sign up for zoom is free). You will receive a secure link to join the instructor before each class. Classes will be recorded so participants can review them or make up missed ones.*

### Required Materials:

1. A hand lens or similar magnifier with 10x magnification or higher (these can be purchased online or at a local hobby store for as little as \$6.99).
2. One copy of *Keys to Lichens of North America*, revised and expanded by Irwin M. Brodo (available at Yale University Press for \$33 + shipping & handling: <https://yalebooks.yale.edu/book/9780300195736/keys-lichens-north-america>).

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**[GENERAL INFO](#)**

**Gary Perlmutter ([gary.perlmutter@gmail.com](mailto:gary.perlmutter@gmail.com))** is an Associate of the University of North Carolina at Chapel Hill Herbarium (NCU). Originally from southern California, he first became interested in lichens and lichenology while studying at the Santa Barbara Botanic Garden (SBBG) as an independent researcher in 1996. Gary took his skills, curiosity and starter collection of about 25 specimens from a lichen workshop at SBBG to North Carolina where he has been active in collecting, studying and teaching lichen classes and workshops since his arrival in 2003. Gary is an Eagle Hill alumnus, having taken the Crustose Lichen workshop taught by Irwin Brodo in 2005. In 2016 Gary has earned a M.S. degree from North Carolina State University with the thesis: "Assessing Highway Pollution Effects on Forest Lichen Communities in Western Wake County, North Carolina, USA." Gary has published several papers in peer-reviewed journals and newsletters from 2005 to present, as well as managing the lichen collection at NCU.