



## New England Trees in Decline & Successful Treatment Options

a presentation by

**David Orwig, Forest Ecologist, Harvard Forest**

**Tuesday, July 12, 2011**

**1:30 – 4:00 PM**

**Arnold Arboretum, Hunnewell Building  
125 Arborway, Boston, MA**

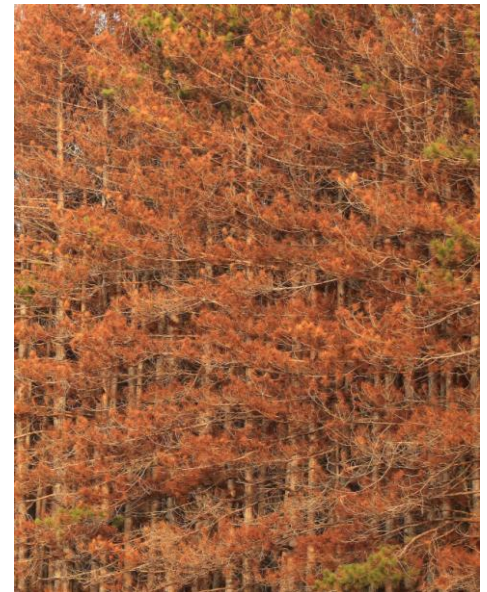
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Since 1907, research has been underway at the 3000-acre property of Harvard Forest, one of the oldest and most intensively studied forests in North America. Scientists, students, and collaborators at the Forest explore topics ranging from conservation and environmental change to land-use history and the ways in which physical, biological, and human systems interact to change our earth. Join Dr. Orwig for this special opportunity to learn about tree decline in New England and to explore ways to reduce and avoid further problems.

Dr. Orwig will present information that details ongoing tree decline resulting from a variety of stressors including native and exotic pests and pathogens. Conifer species will be highlighted, but ongoing hardwood tree problems will be included as well. An emphasis will be given to identification of the problem, the mode of tree decline, and appropriate treatment options when applicable. Discussion will include pests such as hemlock woolly adelgid, elongate hemlock scale, red pine scale, Sirex wood wasp, spruce diseases, emerald ash borer, Asian long-horned beetle, and oak decline on Martha's Vineyard.

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**David Orwig** is a forest ecologist at Harvard Forest, where he has worked for 16 years. Dr. Orwig's research interests encompass all aspects of forest ecology, with particular emphasis on old-growth forest dynamics, dendroecology, and the role of land use history and disturbance on forest structure and composition. These approaches have recently been used to examine forest damage, environmental changes, and related ecosystem processes associated with native and exotic forest pests in New England. Dr. Orwig has a BS in Biology from the Rochester Institute of Technology, a MS in Ecology and a Ph.D. in Forest Resources from Penn State University.



CEUs are being sought for this presentation.