

2013-14 Scientist

Lecture Series

Environmental Challenges Facing Plant Communities in the 21st Century.

Delve deeper into the issues and conditions that impact the world around us. These free, academic lectures allow you to step back into the classroom and learn from the experts. Teachers attending all or part of the series can qualify for graduate credit through Ashland University when combined with independent study. For information on graduate credit requirements and fees contact Sharon Graper at sgraper@holdenarb.org or 440.602.3843. *International Society of Arboriculture (ISA) members can also earn CEUs for some of the lectures.

Each lecture is free and open to the public, but registration is required.

Programs are held in the Reinberger Classroom at the Warren H. Corning Visitor Center.

How Does The Soil Influence Biological Invasions? What's Underground May Surprise You.

Jean H. Burns

Department of Biology, Case Western Reserve University

7pm Thursday, Nov. 14, 2013

Plants have a large effect on the soil where they grow, affecting subsequent plant performance and influencing components of the soil including pathogens and mutualists, chemistry and nutrients. We will discuss "Plant-Soil feedback" and how it affects plant invasions and coexistence in native communities.

The Good, The Bad And The Ungulate: Long-Term Experiments With Native Forest Species, Invaders And Deer.

Susan Kalisz

Department of Biological Sciences, University of Pittsburgh

7pm Thursday, Jan. 16, 2014

In forest and rangeland ecosystems across the globe, the dominance of exotic species over native plant communities and declining biodiversity are becoming widespread crises. Susan Kalisz will discuss the effects of deer herbivory and invasive plant issue as well as some of her research and findings on forest plant communities.

Urban Soil Assessment And Management For Tree Growth And Longevity*

Bryant C. Scharenbroch

Urban Soil Scientist, The Morton Arboretum

7pm Thursday, Feb. 20, 2014

Urban trees have significant environmental, economic and social values; thus, are the key components of urban green infrastructure. But urban tree success is strongly dependent on soil and site conditions. This presentation will cover research from the Morton Arboretum's Soil Science laboratory on assessing and managing soils for maximizing urban tree growth and health.

Phytophthora Diseases Of Trees: From White Oak Decline In Ohio To Sudden Oak Death In California*

Pierluigi "Enrico" Bonello

Department of Plant Pathology, Ohio State University

7pm Thursday, March 13, 2014

This presentation will cover two case studies involving diseases of oaks in which the invasive soil fungus Phytophthora are either suspected or confirmed causal agents. This lecture provides hope for a more rational approach to forest management in the face of this devastating disease.

The **HOLDEN** Arboretum®

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Register online at holdenarb.org or by phone 440.602.3833

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