

Agenda

Defining Botany and Exploring Plant Processes

- Botany versus horticulture
- What a plant is — and what it is not
- Plant science: classification, structure, physiology and ecology

T. Seidler

Understanding Plant Processes

- Photosynthesis
- Respiration
- Transpiration

T. Seidler

Classifying Plants

- Understanding plant taxonomy
- Plant classification system:
 - From kingdom to species
 - Classification criteria
 - Naming conventions
 - Subspecies and cultivars

D. Jolman

Understanding Plant Morphology

- Characteristics of the entire plant
- Characteristics of plant organs:
 - Roots
 - Stems
 - Leaves
 - Flowers
 - Fruits
- Leaf structure and arrangement
- Brats and flowers
- Pollination and reproduction

J. Pitterman

Plant Identification Workshop

- A practical and entertaining workshop where you'll put your new skills to work to identify common (and uncommon) plants

T. Seidler

Can't Attend? Order the Webinar as an On-Demand Package!

Recordings of this webinar are available for purchase. See course listing online for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Botany Fundamentals

Live, Interactive Webinar - Friday, June 7, 2024

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HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

- Understand** plant science: classification, structure, physiology and ecology.
- Examine** plant processes, including photosynthesis, respiration and transpiration.
- Explore** the plant classification system.
- Learn** about characteristics of plant organs, including roots, stems, leaves, flowers and fruits.
- Participate** in a practical and entertaining plant identification workshop.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents

Botany Fundamentals

Live, Interactive Webinar - Friday, June 7, 2024



- Explore** plant science
- Understand** plant processes
- Learn** about the plant classification system
- Examine** plant morphology
- Participate** in a practical and entertaining plant identification workshop

Continuing Education Credits

- Professional Engineers**
6.0 PDHs
- Landscape Architects**
6.0 HSW CE Hours
6.0 LA CES HSW PDHs



Webinar Information

Online - Friday, June 7, 2024	
Log into Webinar	Break
8:30 - 9:00 am CDT	12:15 - 12:45 pm CDT
Morning Session	Afternoon Session
9:00 am - 12:15 pm CDT	12:45 - 4:00 pm CDT

Tuition
\$339 for individual registration.
\$309 for two or more registrants from the same company at the same time.

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Faculty

Tristram Seidler was trained in plant ecology at the University of California Santa Cruz, and obtained his Ph.D. degree at Harvard University, where he studied the spatial distribution of tropical trees in the ultra-diverse rainforest of Malaysia. He continued with a post-doc at Imperial College of London's Centre for Population Biology, where he studied invasive plants in the herbaceous community of Argentina's flooding pampas. After returning to the US, he took a job with Native Plant Trust, a not-for-profit organization that monitors rare plants in New England, among other activities. While there, he ran the Royal Kew Garden's Millennium Seed Bank's Northeast US seed banking program and built a seed bank for the seeds of rare and endangered plants for Native Plant Trust. In 2013, Mr. Seidler took a faculty position at the University of Massachusetts Amherst, where he is curator of the University of Massachusetts Herbarium, a medium-sized herbarium of 250,000 specimens, and teaches courses in botany and ecology.

Jarmila Pitterman, Ph.D., is a professor in the Department of Ecology and Evolutionary Biology at UC Santa Cruz. Dr. Pitterman enjoys mentoring students with a broad interest in plant physiology, evolution and structure and function. Her research involves a combination of field campaigns (collecting samples, using instruments to assess water potential, photosynthesis etc.), hydraulic measures, anatomy, and some degree of stable isotopes. Dr. Pitterman earned her MSc degree from the University of Toronto and her Ph.D. degree from the University of Utah.

Devani Jolman is a third year Ecological Sciences Ph.D. degree Candidate at Old Dominion University in Norfolk, Virginia. Her research focuses on understanding the ecological consequences of natural plant hybridization (crossing of two species) by studying wild hybrid blueberries across Virginia. Her research relies on the classification of plants to identify hybrids and their parent species; she uses genetics, plant traits, and pollinator interactions to explore the impact of hybrid plants. With the presence of hybrid plants increasing due to climate change, this work is increasingly relevant for conservation, management, and restoration purposes. In 2018, Ms. Jolman received a B.S. degree in Biology from Calvin University in Michigan; her undergraduate research worked to inventory the flora of West Michigan, relying heavily on plant identification in the field. During this time, Ms. Jolman also worked at a local Michigan Nature Center to develop educational programs for the county park. After graduation, she spent three years in Vermont as a park interpreter and park manager for Vermont State Parks, planning and facilitating ecological park programs for a diverse array of park patrons while managing park operations. Along with pursuing her Ph.D. degree in Virginia, Ms. Jolman currently works with numerous organizations (Norfolk Botanical Gardens, schools, retirement groups, Master Naturalists, local non-profits, Botanical Society of America's Planting Science, etc.) to provide plant-focused educational programs to the public. Ms. Jolman believes strongly in the equitable communication of science and strives to continually bridge the gap between academic research and the public through education.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and landscape architects via its registration with the Landscape Architecture Continuing Education System.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.0 HSW PDHs (LA CES)

Additional Learning

- Techniques to Promote Groundwater Conservation**
- Monday, May 13, 2024 | 9:00 am - 4:30 pm CDT
- A Closer Look: Federal Strategies in Addressing PFAS Contamination**
- Thursday, May 16, 2024 | 9:00 - 11:00 am CDT
- Endocrine-Disrupting Chemicals in Water Supplies**
- Friday, May 17, 2024 | 9:00 am - 4:00 pm CDT
- Heritage Trees: Why and How to Save and Protect Them**
- Friday, May 17, 2024 | 10:00 am - 1:00 pm CDT
- Wetland Preservation, Restoration, Creation and Enhancement**
- Tuesday, May 21, 2024 | 10:00 am - 12:00 pm CDT
- Floodplain Modeling, Mapping and Regulation**
- Wednesday, May 29, 2024 | 10:00 am - 2:00 pm CDT
- Thursday, May 30, 2024 | 10:00 am - 2:00 pm CDT
- How to Use Less "Toxic" Weed Control**
- Wednesday, May 29, 2024 | 10:00 am - 12:00 pm CDT
- The Tree Course: Science, Design, and Sustainability**
- Friday, May 31, 2024 | 9:00 am - 4:30 pm CDT

For more information and other online learning opportunities visit:
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