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PRESENTS THE 18TH ANNUAL

LAND ETHICS SYMPOSIUM



*Creative Approaches
for Ecological Landscaping*

Thursday, March 15, 2018

Delaware Valley University-Life Sciences Building
Doylestown, PA

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About the Speakers

Melinda Daniels, PhD is an Associate Research Scientist and Director of the Fluvial Geomorphology Section at the Stroud Water Research Center in Avondale, PA. She holds a BS in Natural Resources from Cornell University, a Masters of Research in Environmental Science from University College of London, England, and a PhD in Physical Geography from the University of Illinois at Urbana-Champaign. Her specialties include fluvial geomorphology and river restoration science and policy, with emphases on human impacts on hydrologic and geomorphic regimes, river restoration assessment, and the interconnections between hydro-geomorphologic and ecological processes in stream ecosystems.

Randolph A. Heffner has over 30 years of experience in the design and management of wetland and aquatic ecosystems. He has pioneered wetland horticultural techniques for use in both commercial and institutional habitat designs. Heffner is the owner and operator of Aquascapes Unlimited Inc. and is a consultant for many agencies and organizations on integrated freshwater lake and pond management.

Steward T.A. Pickett is a Distinguished Senior Scientist and urban ecologist at the Cary Institute of Ecosystem Studies. He was the founding director of the Baltimore Ecosystem Study Long-Term Ecological Research program. His research

focuses on ecological structure and function of urban areas, spatial pattern in ecosystems and dynamics of vegetation. He has authored numerous books and served as President of the Ecological Society of America in 2012.

Leslie Jones Sauer is a pioneer in the field of restoring and managing native landscapes. She has developed a number of innovative strategies for establishing and restoring native habitats. Her projects include the Woodlands of Central and Prospect Parks in New York City and Wissahickon Park in Philadelphia. Her book, *The Once and Future Forest* is a guidebook for restoring and managing natural landscapes, especially remnant deciduous forests.

Larry Weaner is nationally recognized for combining expertise in horticulture, landscape design, and ecological restoration. His work through the eastern U.S. has been featured in regional and national publications, including *The New York Times*. Larry is an active guest lecturer for horticultural and environmental organizations throughout the country. In 1990 he developed New Directions in the American Landscape (NDAL), a conference series with a national following. His book *Garden Revolution: How Our Landscapes Can Be a Source of Environmental Change* received an American Horticultural Society Book Award.

18th Annual Land Ethics Symposium

8:00 Registration, Continental Breakfast, Book Sale

8:45 Welcome

9:00 The Self-Perpetuating Landscape: Setting a Process in Motion

Larry Weaner

Nature has spent millennia perfecting plants' abilities to reproduce and proliferate on their own, yet we often go to great effort and expense placing every plant in our designed landscapes. How can we capitalize on plants' reproductive abilities, and actively encourage planted as well as existing and new species to colonize our landscapes? We will discuss the principles and protocols for creating dynamic, ecologically rich landscapes where nature does much of the "planting." The lecture includes detailed case studies that demonstrate how practical, concrete strategies for assisted plant proliferation can be applied at diverse scales, from the most intimate garden to large multi-acre landscapes.

10:00 Multi-Strategy Whole Watershed Restoration for Ecological and Human Resiliency

Melinda Daniels, PhD

Watershed restoration has always presented an opportunity for addressing both ecological and human resiliency concerns, yet quantifying and communicating the connections between the two has been challenging. This has resulted in segmented, piecemeal restoration funding with limited ecological or human resiliency benefits. We appear to be in a phase of opportunity to produce larger, connected, holistic watershed restoration with clear and quantifiable improvements in both human and ecological resiliency. In this session we showcase a demonstration watershed restoration effort funded following Hurricane Sandy that employs multiple in-channel, floodplain, and hillslope strategies to restore hydrologic and water quality function to a headwater tributary of the Brandywine Creek, Chester County, PA.

11:00 Break and Book Sale

11:20 Urban Ecology, and Urban Land Ethic, and Insights for Restoration

Steward T.A. Pickett

Urban ecology is a young science, but is discovering surprising things about how urban areas function as

social-ecosystems. This knowledge affects policy and management in urban systems, and intersects with the emerging "urban land ethic" to provide perspective on the strategies and limits of urban vegetation management. We will explore the intersection of new scientific data with ethical concerns around greening and restoration in cities, suburbs and towns.

12:20 Lunch and Book Sale

1:30 Land Ethics Award Presentation

1:45 Installation and Management of Storm Water Basins
Randolph A. Heffner

Function typically drives the design of modern storm water infrastructure. The engineered values of capacity, runoff velocity, and energy absorption are paramount to prevent erosion, reduce flooding, and improve water quality downstream while achieving regulatory compliance. "Green storm water infrastructure" supplements engineered values to incorporate groundwater infiltration, nutrients removal, wildlife value and aesthetics. Creating a functional storm water system that incorporates an ecological community in which plants and animals can cohabitate while accommodating aesthetic needs and human activities is indeed challenging. In this presentation, design, implementation, and management details will be discussed from a biologist/plantsman perspective for these unique high performance multi-purpose landscapes we call storm water management systems.

2:45 Break and Book Sale

3:00 Landscaping for Carbon Storage and Resilience

Leslie Jones Sauer

Landscape management is the low-hanging fruit for fighting climate change. We can alter the effects of landscape management to store more carbon while doing a better job of sustaining vulnerable species. This presentation will look at how using methods like native grasses instead of lawn, rotational grazing and permaculture, and adopting retention forestry to conserve wider values could have a dramatic impact on the carbon budget of our landscapes.

4:00 Closing Remarks



Details

Please contact:

Kelly Joslin, Education Coordinator
LES@bhwp.org
215.862.2924

Visit www.bhwp.org for updates and online registration.

Breakfast and buffet lunch will include vegetarian, non-dairy and gluten-free choices.

Symposium Location

Delaware Valley University
Life Sciences Building
700 E. Butler Ave.
Doylestown, PA 18901
215.489.2315

Delaware Valley University's facilities are accessible to all. Convenient to SETPA Lansdale/Doylestown Line (Del Val stop) and US Rt 202.

Use Admission Parking/Parking Lot C

From State St./Butler Ave., turn onto New Britain Rd. (stoplight), then onto Admission Dr. (1st right). Park in the large lot on right.

Cancellation Policy

Refund requests must be received by March 1, 2018, by contacting Kelly Joslin at 215.862.2924. A \$15 processing fee will be charged. No refunds after March 1, 2018.

Continuing Education Credits

BHWP is an LA CES™ approved provider. The 2018 Land Ethics Symposium has been approved for continuing education credits from the following professional organizations:

- ASLA
- Pennsylvania State Board of Landscape Architects
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The 2018 Land Ethics Symposium has applied for continuing education credits from the following professional organizations:

- New Jersey Board of Architects
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Registration

Online at <http://bit.ly/BHWP-LES>

Or mail form and payment by March 6, 2018.
Please print clearly. Only one name per registration.

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Registration fee includes continental breakfast, snacks and buffet lunch.

- \$149** Early Bird Registration
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- \$179** Regular Registration
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- \$50** Full-time Student
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