

Morris Arboretum  
100 E. Northwestern Avenue  
Philadelphia, PA 19118

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# uncharted territory:



An Expansive  
Approach to  
Environmental  
Landscape  
Design



2 2<sup>ND</sup> ANNUAL SYMPOSIUM



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An Expansive  
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Relying on traditional landscape methods in a new era of ecological design simply won't cut it. In this two-day program we will look to a variety of disciplines, cultures, and art forms for concrete strategies that respond to the rapidly expanding scope of landscape design.

CEUs available for landscape architects, APLD members, and horticulturists.

Waldon Pond ([www.flickr.com/photos/chiotsrun/3909880218/](http://www.flickr.com/photos/chiotsrun/3909880218/))  
Mozart, Ave Verum Corpus ([www.musicforstrings.com](http://www.musicforstrings.com))



## sponsored by

New Directions in the American Landscape  
(Developed by Larry Weaner)  
Connecticut College Arboretum  
Morris Arboretum of the  
University of Pennsylvania

## co-sponsored by

Haverford College Arboretum  
PA/DE Chapter of the American  
Society of Landscape Architects

## location and dates

**PA:** Haverford College  
Haverford, PA  
**Thursday, January 13 -  
Friday, January 14, 2011**

**CT:** Connecticut College  
New London, CT  
**Thursday, January 20 -  
Friday, January 21, 2011**

**PA: Thursday, January 13, 2011**

**CT: Thursday, January 20, 2011**

*Registration and breakfast 8:15 to 9:00 a.m.*

*The Hypsithermal Interval & You (1 hour)*

**Tom Webb, PhD**

Eight thousand years ago, during the Hypsithermal Interval, increased temperatures and decreased rainfall favored the establishment of prairie species in what is now the eastern United States. Tom Webb will show how this and other climate changes in the last 21,000 years affected the distribution, associations, and abundance of plant taxa in North America, information that can contribute to plant selection in our current warming trends.

*Comparing Notes with Thoreau (1 hour)*

**Charles Davis, PhD**

While native plant diversity at Walden Pond has decreased since the time of Henry David Thoreau, some species have fared better than others. By comparing Thoreau's extensive botanic records with present-day floristic inventories and examining how species have evolved since Thoreau's time, Charles Davis will discuss which traits seem to facilitate success in our heavily disturbed contemporary landscapes.

*Overlooked Plant Characteristics: Expanding the Criteria for Selecting Plants (1 hour)*

**Ian Caton**

How do plants interact spatially, migrate in the landscape, and fit into the unfolding process of ecological succession? These and other plant characteristics are rarely included in horticultural literature but are crucial to establishing regenerative native landscapes. Native plant authority Ian Caton will fill in the gaps in plant selection protocol.

*Overlooked Plant Characteristics: Accessing the Data (1½ hours)*

**Arthur Haines & John Kartesz, PhD**

Finding habitat, community, and other important information on native plants can be difficult. Two plant taxonomists will discuss plant databases and other reliable information sources essential to understanding the roles and relationships of individual plants and their ecosystems in the eastern U.S.

*Decoding a Site's Ecology: A Promising Technologies Forum (½ hour)*

**Ian Caton, Arthur Haines, & John Kartesz, PhD**

**Moderated by Larry Weaner**

This forum will demonstrate new and emerging technologies relevant to site analysis, including seed bank profiles, electronic field manuals, and tools for determining land use history. The panel will discuss inventive uses for these technologies, and respond to specific questions on their applications to landscape design.

*Traditional Native American Landscape Practices (1 hour)*

**Dennis Martinez**

For thousands of years, Native Americans developed highly sophisticated techniques for cultivating plants and directing vegetation in entire ecosystems. In this session we will explore these practices, with an emphasis on those that have relevance for contemporary practitioners.

Reception hour with beer, wine, and hors d'oeuvres (included)

**PA: Friday, January 14, 2011**

**CT: Friday, January 21, 2011**

*Registration and breakfast 8:15 to 9:00 a.m.*

*Conversations with a Native American Landscape Practitioner (1 hour)*

**Dennis Martinez**

In this presentation Dennis Martinez will describe how he has integrated the traditional techniques described in his earlier lecture into his diverse careers in garden design, native plant propagation, and ecological restoration over the past 41 years.

*Saving Energy: One Aspect of Sustainable Landscape Design (1¼ hours)*

**Sue Reed**

Residential energy use represents nearly one-quarter of North America's total energy consumption. Using her own design projects and many others, Sue Reed will demonstrate the principles of energy-wise landscape design in action. Learn how your projects can be designed, built, and managed to consume less energy, yet express the beauty and resilience of a well-planned landscape.

*The Sustainable Sites Initiative: Experiences by Andropogon Associates (1¼ hours)*

**Amy Reese & Sutter Wehmeier**

The Sustainable Sites Initiative (SITES), a pioneering effort to quantify landscape performance, is in its pilot stage, and many are eager to see the results. Our two presenters will describe the day-to-day process of working with SITES from schematic design through documentation and construction, and discuss how SITES may evolve.

*Harmony, Rhythm, & Time: Relating the Processes of Musical Composition to Natural Landscape Design (1¼ hours)*

**Larry Weaner**

While garden design is considered a visual art, in some respects it has more in common with music, where the composition unfolds over time. Landscape designer and amateur composer Larry Weaner will discuss how understanding the process of musical composition can help designers create landscapes that evoke emotional responses, unfold gracefully over time, and incorporate improvisation.

*Native Meadows: Reviewing the State of the Art (1¼ hours)*

**Catherine Zimmerman**

Catherine Zimmerman will illustrate methods of native meadow

establishment as discussed in her recent book *Urban and Suburban Meadows*. Having observed many leading innovators of meadow establishment and native design, Zimmerman will also compare and contrast the varied approaches that each has employed in their work.



Since its founding in 1990, our natural design conference has avoided trendy jargon in favor of landscape techniques that succeed in the real world. Speakers represent an extraordinarily wide range of fields and often provide information rarely found in traditional landscape programs. The varied experiences of conference attendees, many of whom attend year after year, also enhance our program and offer excellent opportunities for professional interaction. We invite you to join us as we continue to explore the scientific, cultural, and artistic issues that are affecting our rapidly changing field.

For more information visit [www.ndal.org](http://www.ndal.org).

“Great organization,  
great people!”

“Intriguing, practical topics.”

“I’m always so impressed with  
your varied selections.”

—past symposium attendees



Larry Weaner

**Fees**

**Per Person:** \$295 includes continental breakfast, lunch, reception, and break refreshments.

**Student Rate:** \$165 includes continental breakfast, lunch, reception, and break refreshments. *(Students must enclose copy of a current student ID with registration and present that ID at the conference.)*

**For More Information**

**For PA:** (215) 247-5777 ext. 125, [jlm@upenn.edu](mailto:jlm@upenn.edu)

**For CT:** (860) 439-5020, [arbo@conncoll.edu](mailto:arbo@conncoll.edu)

**Accommodations**

**For PA:** The Radnor Hotel, 800-537-3000, Mention *Haverford College Natural Landscape Design Symposium*. Discount available only with phone-in reservation.

**For CT:** Holiday Inn of New London, (860) 442-0631, Mention *Landscape Symposium*.

**Registrations**

Morris Arboretum, Education Department  
100 E. Northwestern Avenue, Philadelphia, PA 19118  
f: (215) 836-2714

Connecticut College Arboretum  
270 Mohegan Avenue, New London, CT 06320  
f: (860) 439-5482

Confirmation will be e-mailed and will include map and symposium schedule. Registration will be refunded only when notification is received no later than 7 working days prior to event.

Name(s) \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_

E-Mail Address \_\_\_\_\_

Please do not include me on attendees list.

**If paying by Credit Card**

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Visa    MasterCard

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Signature: \_\_\_\_\_

Exp. Date: \_\_\_\_\_ CVC Number: \_\_\_\_\_

AMOUNT ENCLOSED \$ \_\_\_\_\_

**Ian Caton** is a designer with Larry Weaner Landscape Associates. Highly knowledgeable about native plants, natural communities, and their incorporation into the human environment, he has designed and installed native landscapes for residential, commercial, and public settings. Ian has spoken at Bowman's Hill Wildflower Preserve, the Irvine Native Plant Seminar, and the New York Botanical Garden.

**Charles Davis, PhD**, is Assistant Professor of Organismic and Evolutionary Biology at Harvard University and Assistant Curator of the Harvard University Herbaria. His research focuses on plant and insect interactions, biogeography, biome evolution, and the evolutionary implications of climate change. His work has appeared in scientific and popular media, and he recently co-authored an article on plant responses to climate change that appeared in *Evolution Since Darwin: the First 150 Years* (2010).

**Arthur Haines**, a field taxonomist specializing in New England's vascular plants, is a research botanist with the New England Wildflower Society. He is working on *Flora Novae Angliae*, a forthcoming website and manual that will include color images, county-level distribution maps, keys, and addenda. Arthur teaches classes in taxonomy and primitive skills for organizations throughout New England.

**John Kartesz, PhD**, a biologist, directs the Biota of North America Program (BONAP), which for the last 40 years has tracked all vascular plant species (native, naturalized and recently adventive) in North America north of Mexico. Kartesz worked for 17 years at the North Carolina Botanical Garden at Chapel Hill and has authored and co-authored numerous books and scientific papers on plant taxonomy and phylogeography.

**Dennis Martinez** has a diverse background in landscape design, installation, and restoration. He co-founded Design Associates Working with Nature (the first major restoration consulting group on the west coast), pioneered oak savanna restoration, and advanced the integration of modern science and traditional ecological knowledge. A past board member of the Society for Ecological Restoration (SER) and former chair of SER's Science and Policy Working Group, Martinez chairs SER's Indigenous Peoples' Restoration Network and serves on the Steering Committee of the Global Indigenous Peoples Climate Change Assessment for the Pacific Northwest (U.S. and Canada).

**Sue Reed** is a registered landscape architect who has helped hundreds of homeowners create comfortable, livable, and beautiful landscapes that also save energy. She has worked in western Massachusetts for nearly 25 years, including twelve years as an instructor at the Conway School of Landscape Design. Her book *Energy-Wise Landscape Design* was published in 2010, and her article "Sustainable Landscape Design" appears in Volume II of the new *Encyclopedia of Sustainability*.

**Amy Reese** is a landscape designer at Andropogon Associates, an ecological planning and design firm in Philadelphia. She received a bachelor's degree in landscape architecture and horticulture from Temple University. Her current projects include landscape management guidelines for a private estate and site design for an environmental center, a greenhouse exhibit, and a demonstration garden at the U.S. Botanic Garden.

**Larry Weaner** has been creating native landscapes since 1977. He founded Larry Weaner Landscape Associates in 1982 and has gained a national reputation for combining ecological restoration with the traditions of garden design. In 2008 he was awarded the top three design awards by the Association of Professional Landscape Designers. He is an active guest lecturer and instructor for horticultural and environmental organizations throughout the U.S. Larry developed *New Directions in the American Landscape* in 1990.

**Tom Webb, PhD**, a paleoecologist and paleoclimatologist with a background in botany and plant ecology, has mapped, modeled, and interpreted vegetation and climate changes from the glacial maximum (21,000 years ago) to the present using radiocarbon dating of lake sediment cores from over 400 sites in North America. Emeritus professor at Brown University, Webb has published extensively on vegetation dynamics, past environment testing, climate change, geoarchaeology, paleohydrology, and hurricane history. In 2006 Webb received the Distinguished Career Award from the American Quaternary Association (Quaternary is the last 1.8 million years).

**Sutter Wehmeier** is a landscape architect at Andropogon Associates, an ecological planning and design firm in Philadelphia. Since joining Andropogon, he has focused on urban landscapes that celebrate and display the cultural and natural factors unique to each site. His current projects include collegiate campuses, urban brownfields, botanical gardens, and private residential gardens.

**Catherine Zimmerman**, an award-winning director of photography, has over 30 years experience in documentary filmmaking with an emphasis on education and environmental issues. She is a certified horticulturist and landscape designer accredited in organic land care through the Northeast Organic Farming Association. Her book *Urban and Suburban Meadows: Bringing Meadows to Big and Small Spaces* (2010) provides concise step-by-step instructions on converting existing lawn to native meadow.