

Morris Arboretum Education Dept.
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Vegetation and Innovation: Meadows, Woods and Water

13TH ANNUAL SYMPOSIUM
New Directions in the American Landscape



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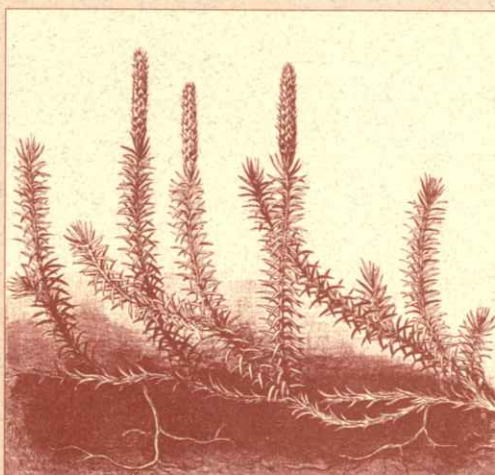
A two day, in-depth examination of state-of-the-art ecological landscape design, presenting a diverse and accomplished group of designers, horticulturists, scientists and artists in an informal, interactive forum.

 Printed on recycled paper

A Note from the Organizers

Throughout the history of our symposium, we have presented programs relating to landscape design, ecological restoration, and those interesting areas that lie in-between. We are proud of these programs and of the high caliber landscape professionals who have participated.

Our goal has been to ensure that even an already knowledgeable conference participant will leave with a substantial amount of new and useful information.



Here is how we have achieved that goal:

Programs organized as a cohesive curriculum

Speakers with high levels of expertise and ample time to cover their topics

Emphasis on innovative practices, both new and re-discovered

Multi-disciplinary presenters, including designers, horticulturists, ecologists, botanists, anthropologists, historians and artists

Opportunities for a lively exchange of ideas between participants

*“Always thought-provoking and cutting edge
with plenty of new concepts and design solutions”*

— A 2002 conference participant

DAY 1

CT: Thursday, January 9, 2003
PA: Wednesday, January 15, 2003
8:30 AM – 4:15 PM

Shifting the Balance/Planting and Protecting Natives in Disturbed Landscapes (1 hr. 15 Min.)

Dennis Burton

Drawing from his extensive experience with numerous restoration projects including Central Park in New York City and Fairmount Park in Philadelphia, Mr. Burton will illustrate specific techniques for combining invasive plant control and the recruitment and planting of native species.

A No Nonsense Approach to Native Perennials or You Don't Know a Plant Until You've Killed It

(1 hr. 15 min.)

Stephanie Cohen

In the natural garden, the role of herbaceous perennials often goes beyond flowers, serving as the ground layer that stabilizes the landscape. Ms. Cohen will illustrate a range of native perennials with the ability to competitively colonize areas, resist drought and contribute floral and textural beauty to the garden. Included will be a case study of an experimental meadow garden planted exclusively with plugs.

Forest Conservation in New Development (1 hr.)

Richard Pais

This talk will focus on utilizing forest assessments to help create site plans for residential, commercial and institutional development that maximize conservation. Case studies will explain the value of existing forest vegetation and explain how to evaluate it for use by architects, planners, engineers and developers. Information on the cost/benefits of forest and tree conservation will be provided and techniques for forest and specimen tree preservation during construction will be discussed.

Seeding the Woodland Landscape (1 hr. 15 min.)

William Cullina

Herbaceous woodland species often are more complex in their seed germination requirements than their open meadow brethren. In this presentation, William Cullina, one the leading propagators in the country, will explore plants and planting strategies to overcome some of the difficulties of direct seeding the herbaceous woodland ground layer.

Green Roofs: Creative Storm Water Management Alternatives (1 hr.)

David Beattie

Mr. Beattie will present his extensive research into the positive effects that green roofs can have on the urban "heat island effect," carbon dioxide impacts, heating and cooling needs, and storm water runoff. He will also illustrate various construction and planting techniques through an international collection of green roof examples, varying from high tech to the whimsically artistic.



DAY 2

CT: Friday, January 10, 2003
PA: Thursday, January 16, 2003
8:30 AM – 4:15 PM

Making Many Meadows (1 hr. 15 min.)

Carol Franklin

This talk will explore a number of different native meadows created in several contrasting habitats on a single property in Stony Brook Harbor, Long Island. The approaches range from cheap difficult and painfully long installations to expensive, easy and immediate ones. Habitats were created in sunny and shady conditions including traditional tall grasses and wildflowers, unique sedge and moss meadows, and woody ground cover meadows. Pictures show the work from the beginning to establishment and illustrate what it takes to fill niches and make a landscape dramatic, beautiful and complete.

For Every Action a Reaction: Establishment

Processes of Woodland Herbs (1 hr. 30 min.)

Dennis Whigham

Ecologist Dennis Whigham will synthesize many years of research on the reproductive strategies of herbaceous woodland species, including their response to changes in the structure of the forest canopy. The presentation will show how manipulating forest conditions can elicit a dramatic increase in native herbaceous species on woodland projects.

CONCURRENT SESSIONS

SESSION 1: Earth Moving and the New Federal Regulations in Stormwater Management (1 hr.)

John Deering

New federal regulations are about to seriously impact the earth-moving practices of virtually all landscape professionals. Mr. Deering will explain the Storm Water Phase II requirements for storm water discharge and discuss the best management practices for projects of 1 to 5 acres.

SESSION 2: Real Meadows: A Long Term Approach (1 hr.)

Larry Weaner

This session will illustrate the design and establishment of native meadows utilizing a series of case studies from 1-8 years of age. Projects illustrated will include updates on established plantings as well as current projects that incorporate many newly applied techniques including pre-plant burning, the use of selective herbicides, and the planting of meadows to facilitate the establishment of woodlands and shrublands.

PANEL DISCUSSION: Where Do We Go From Here?

Carol Franklin, Larry Weaner and Dennis Whigham

A broad discussion of the obstacles and opportunities awaiting landscape professionals who wish to make native design and restoration a significant part of their practice.

From Creek to Sewer: A Philadelphia Story (1 hr.)

Adam Levine

Mr. Levine will present the fascinating story of how Philadelphia's streams and creeks—some with watersheds that covered thousands of acres—became a 3,000 mile underground sewer system. In Philadelphia, as in many cities, the massive alteration to the original hydrology and landforms of the landscape is a little known story that becomes more relevant each year as drought and flood cycles increase in severity.

SPEAKER PROFILES

David Beattie is an Associate Professor of Ornamental Horticulture at Penn State University and is the Director of the Penn State Center for Green Roof Research. He has also traveled internationally to research other green roof approaches, particularly in Europe, where they are much more commonly employed.

Dennis Burton is the Director of Land Restoration at the Schuylkill Center for Environmental Education in Philadelphia. From 1989 to 1999 Mr. Burton was the first Woodland Manager of Central Park in New York City. He also authored "The Nature Walks of Central Park" published by Henry Holt Co., 1997.

Stephanie Cohen is Director of the Landscape Arboretum at Temple Ambler and a contributing editor for *Country Living Gardener*. She is a nationally recognized expert on the subject of herbaceous perennials. Ms. Cohen has taken a particular interest in native perennials and their horticultural selections and lectures frequently on the subject throughout the United States and abroad.

William Cullina is Propagator and Nursery Manager for the New England Wildflower Society, the oldest plant conservation organization in North America. He has authored two major books: *Growing and Propagating Wildflowers of the United States and Canada*, and *Native Trees, Shrubs and Vines: A Guide to Using, Growing and Propagating North American Woody Plants*.

John Deering is a consultant for land use and development and an active educator on the subject of pond restoration and on controlling soil erosion during earth moving activities. He has authored several articles, including "Managing the Earth for Environmental and Financial Success" in *Land and Water Magazine*.

Carol Franklin is a founding member of Andropogon Associates, Ltd., a landscape architecture firm internationally recognized for its integration of natural, cultural, historical and social resources within each of its projects. The firm has received numerous international awards and Ms. Franklin is a much sought after speaker on a wide variety of topics relating to conservation and landscape architecture.

Adam Levine of Rose Valley, Pennsylvania, is an independent historian and consulting activist who works with the Philadelphia Water Department to develop historically-based public education programs. He is also an award-winning garden writer whose articles have appeared in *Horticulture*, *Fine Gardening*, *Green Scene* and *Garden Design*.

Richard Pais is a certified wildlife biologist and president of Ecoscientific Solutions, LLC, a Scranton, Pennsylvania ecological assessment, design, and management firm. For the past 15 years, he has worked with developers throughout the Northeast and Mid-Atlantic in the preservation of forests and trees in association with new development. He also helped develop the Maryland Forest Conservation Act and was an instructor of Forest Ecology at Johns Hopkins University from 1995-1998.

Larry Weaner is principal of Larry Weaner Landscape Design Associates Inc. in Glenside, PA who is currently working on natural design projects throughout the Eastern U.S. He developed the 'New Directions in the American Landscape' conference series, and is a past Board of Directors Member and Environmental Chair of the Association of Professional Landscape Designers.

Dennis Whigham, Ph.D. is a scientist with the Smithsonian Environmental Research Center. His research concentrations have been on orchid ecology, woodland herbaceous layers, forest canopy disturbance and wetland ecology and management. He has authored numerous articles based upon his studies in such professional journals as *Forest Ecology and Management*, *American Journal of Botany*, and *Wetlands*.

