

The Ecological Landscaping Association presents:

Register online at
www.ecolandscaping.org

Sustaining the Living Landscape

February 25 & 26, 2015 MassMutual Center, 1277 Main Street, Springfield, MA

Wednesday Night Keynote

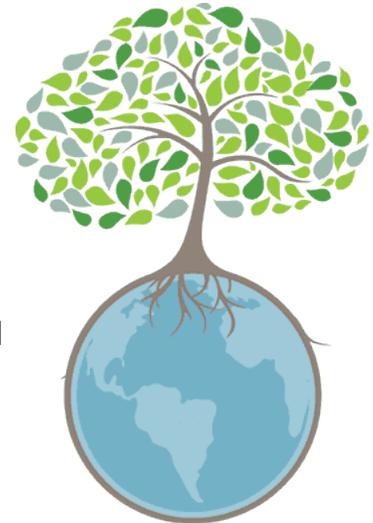
Rick Darke

Rick Darke is a widely published author, photographer, lecturer and consultant dedicated to the design and stewardship of livable landscapes.



Join us at the ELA Conference & Eco-Marketplace and

- Delve into design details
- Expand your ecological knowledge
- Discover new products and services
- Build your professional networks



Visit www.ecolandscaping.org to register online or to review the full brochure.

General Information

Online Registration

Visit www.ecolandscaping.org to register online!

Continuing Education Credits

Pesticide credits have been requested from the six New England states, NY and PA. CEU credits have been requested from APLD, ASLA, ISA, LA CES, MAA, MLP, MNLA , NOFA OLCF, and others.

ELA Bookstore

Open throughout the ELA Conference. Your bookstore purchase helps to support ELA educational programs.

Contact Information

Visit www.ecolandscaping.org for online registration, general information, and conference details.

Attendee information

Penny Lewis at (617) 436-5838

Exhibitor information

Trevor Smith at (617) 308-7063

On-site Registration

Register at the event February 25th and 26th.

Hotel

Rooms at the Springfield Marriott are available to participants for \$109 per night. Reservations will be taken no later than February 16, 2015. Register online or call (413) 781-7111 or (800) 228-9290 and specify the ELA group promotional code: ECOECO. The discount is NOT available at check-in.

Cancellation Policy

To receive a refund, your request must be received prior to February 15, 2015. A \$60 handling fee will be deducted. No refunds will be made after that date unless the conference is canceled. For recorded cancellation information, call (617) 436-5838.

Disclaimer

ELA is a facilitation organization. Views expressed or products offered by participating companies or individuals are not necessarily endorsed by ELA or its co-hosts.



Sustaining the Living Landscape

The 21st Annual ELA Conference & Eco-Marketplace
February 25 & 26, 2015 at the MassMutual Center in Springfield, MA



Sustaining the Living Landscape

ELA's 21st Annual Conference & Eco-Marketplace
February 25 & 26, 2015

Immerse yourself in a two-day exploration of ecological concepts that support living landscapes!

Climate changes, invasive plants, and increases in insect pests and diseases are rapidly altering our landscape. It is becoming ever more critical that we preserve and protect our resources and help sustain local ecosystems. Our 2015 Annual Conference brings together well-known experts for a lively exchange of information and experience. Topics include plant response to climate and land use changes, designing with rating systems (SITES, LEED, and Living Building Challenge), innovative stormwater management, protecting pollinators, and much, much more.

Intensive Workshops: Wednesday, February 25th

From Seed to Success: Creating and Sustaining Dynamic Landscapes

Join us for an in-depth look at plants, including selection, management, diagnosing and addressing problems, and how plants function once in the landscape. From establishing plugs to the dynamics of plant communities, our speakers and panelists will share their knowledge and experience to take us beyond the basics and enable us to make better choices in our stewardship of the land.

New Strategies for Water Conservation and Protection

Faced with increasing instances of drought and flooding and their detrimental effects on water quality, property, crop production, and habitat, it is essential that we modify our landscape practices. Join us to learn about the latest on the construction and performance of systems that reduce the use of water, designs for green infrastructure, and the effects of new fertilizer regulations. Our experts will share their experiences with implementing new practices and strategies to address the challenges of a changing and unpredictable climate.

Wednesday, February 25 Keynote Dinner

The Essential Layers of Living Landscapes

The richness of life in any landscape is linked to the diversity in its layers, and this is true for both people and wildlife. Rick Darke will look at layers from ground cover to canopy and will describe and illustrate how to conserve, create and manage them in landscapes that are beautiful, biologically diverse, and joyfully livable. Using examples from a wide range of public and private projects, he will present a practical, ecologically sound approach to layering that he calls spacemaking with organic architecture.

Rick Darke heads Rick Darke LLC, a Pennsylvania-based consulting firm focused on landscape ethics, photography, and contextual design. Darke's work blends art, ecology, and cultural geography in the design and management of living landscapes. Projects include parks, scenic byways, transportation corridors, corporate and collegiate campuses, conservation developments, post-industrial and historic brownfields, botanic gardens, and residential landscapes. His many books include *The American Woodland Garden: Capturing the Spirit of the Deciduous Forest*, *The Encyclopedia of Grasses for Livable Landscapes*, and *The Living Landscape: Designing for Beauty and Biodiversity in the Home Garden* co-authored with Doug Tallamy.



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February 25, 2015 Conference Intensive Workshops

From Seed to Success: Creating and Sustaining Dynamic Landscapes

8:00am

Registration and Eco-Marketplace open;
Continental Breakfast

9:00am–10:30am

From Nursery to Garden: Establishing Plants in the Landscape

Mark Richardson and Kate Stafford, New England Wild Flower Society

11:00am–12:30pm

Planting Choices for Living Landscapes

Rick Darke, Rick Darke LLC

1:00pm–2:00pm

Lunch & Networking

2:00pm–3:30pm

Strategies for Solving Plant Problems

Dan Cooley, Stockbridge School of Agriculture
Andrew Gapinski, Arnold Arboretum and
Joe Elkinton, UMass

ELA Moderator: Mark Richardson, New England Wild Flower Society

4:00pm–5:30pm

Mimicking Forest Ecosystems: Designing Intentional Plant Communities

David Jacke, Dynamics Ecological Design

New Strategies for Water Conservation and Protection

9:00am–10:30am

Net Positive Water Systems: Phipps Conservatory's Living Building Challenge Project

Jason Wirick, Phipps Conservatory

11:00am–12:30pm

Green Infrastructure 2.0: Innovations in Stormwater Management

Jon Ford and Brian Kuchar, Horsley Witten Group

2:00pm–3:30pm

Fertilizer Regulations and Water Quality: A Look at Theory and Implementation

Mary Owen, UMass Extension Turf Program

4:00pm–5:30pm

Managing the Unpredictable: From Drought to Deluge

Rebecca McMackin, Brooklyn Bridge Park and
Paul Kwiatkowski, Mount Auburn Cemetery

"After Hours"

5:30pm–6:30pm

Hors d'oeuvres, cash bar, and music.

Take a moment to network and energize before dinner and the keynote.

6:30pm

Eco-Marketplace closes for the day

6:30pm–8:30pm

Keynote Dinner

The Essential Layers of Living Landscapes

Rick Darke is a widely published author, photographer, lecturer and consultant dedicated to the design and stewardship of livable landscapes.

February 26, 2015 Conference Sessions & Idea Exchange

Conference Sessions

7:00am–8:30am

Irrigation Workshop & Demonstration

John Swaringen, Bartlett Tree Experts

7:00am–9:00am

Continental Breakfast

7:30am

Registration and Eco-Marketplace open

8:30am–10:00am

Designing with Tree Preservation in Mind

Lauren Wheeler, Natural Resources Design, Inc. and
CJ Lammers, Maryland-National Capital Park & Planning

SITES v2 – Rating System Guidelines and Performance Benchmarks

Melanie Sifton, Brooklyn Botanic Garden

10:30am–12:00pm

Locally Sourced: Growing Native Plants from Collected Seed

Uli Lorimer, Brooklyn Botanic Garden

The Challenge of Residential Design & Rating Systems: A Case Study of the Gaddy House

Lauren Wheeler, Natural Resources Design, Inc.

12:00pm–1:30pm

Lunch & Networking

1:30pm–3:00pm

Naturalizing Hardscapes: Creative Approaches to Transforming Harsh Urban Spaces

Lisa Cowan, Studioverde Landscape Architecture

The Built Landscape: Innovative Models and Tools of the Trade

Jason Wirick, Phipps Conservatory

4:00pm

Eco-Marketplace closes

3:30pm–5:00pm

What is the Right Plant? New Plant Palettes for a Changing Climate

Darryl Newman, Planters' Choice Nursery and
Peter van Berkum, VanBerkum Nursery

The Buzz on Pollinators

Kelly Gill, Xerces Society

Idea Exchange

8:30am–10:00am

Preventative Rx for the Landscape

Kelly Gill, Xerces Society
Dr. Brian Maynard, URI
Chris Roddick, Brooklyn Botanic Garden
ELA Moderator: Dan Jaffe, New England Wild Flower Society

10:30am–12:00pm

Restoring the Urban Canopy: How Many Trees are Enough?

George Batchelor, MA Dept. of Transportation
CJ Lammers, Maryland-National Capital Park & Planning
Matthew Stephens, New York City Parks
ELA Moderator: Rolf Briggs, Tree Specialists, Inc.

1:30pm–3:00pm

Plant Responses to Climate Change: What Can We Expect?

Dr. Jenica Allen, UConn
Dr. Bethany Bradley, UMass
Bill Brumback, New England Wild Flower Society
Dr. Kristina Stinson, UMass
ELA Moderator: Anna Fialkoff, New England Wild Flower Society

3:30pm–5:00pm

Designing within the Rating System

Lisa Cowan, Studioverde Landscape Architecture
Melanie Sifton, Brooklyn Botanic Garden
Lauren Wheeler, Natural Resources Design, Inc.
ELA Moderator: Heather Heimarck, Landscape Institute at the Boston Architectural College

5:00pm 2015 Conference Concludes



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February 25, 2015 Wednesday Intensive Workshops

9:00am–10:30am

From Seed to Success: Creating and Sustaining Dynamic Landscapes

From Nursery to Garden: Establishing Plants in the Landscape

– Mark Richardson and Kate Stafford

Ever wonder why some nursery-grown plants flourish in the landscape while others do not? Our speakers will explore a comprehensive approach to successfully establishing plants in the landscape. Ms. Stafford, who specializes in growing native plugs from locally sourced seeds, will share how New England Wild Flower Society's Nasami Farm Native Plant Nursery grows strong and healthy plants that have the best chance to thrive. Mr. Richardson, Director of Horticulture at New England Wild Flower Society's Garden in the Woods, will describe how to choose healthy, appropriately sized plants for the landscape and ensure their successful establishment.

New Strategies for Water Conservation and Protection

Net Positive Water Systems: Phipps Conservatory's Living Building Challenge Project

– Jason Wirick

At Phipps Conservatory and Botanical Garden's Center for Sustainable Landscapes, a variety of systems capture and reuse stormwater and help Phipps meet the performance goals set by the Living Building Challenge (LBC) rating system. Mr. Wirick will describe the systems from conceptual design to actual performance over two years of operations and explain how this work has helped inspire future water reuse projects on the 15-acre urban botanical garden campus. As part of his discussion, he will describe the seven performance areas (Petals) of the Living Building Challenge and the concept of multiple projects working cooperatively to meet performance requirements.

11:00am–12:30pm

From Seed to Success: Creating and Sustaining Dynamic Landscapes

Planting Choices for Living Landscapes

– Rick Darke

Truly conservation-based design must begin with inventory of existing resources and always seeks to maximize functionality with a minimum of consumption. It is also focused on establishing and managing living populations and associations rather than on plants as individual objects. Drawing on his background in field botany, ecology, horticulture, and design, Rick Darke will discuss the selection, establishment, and management of plants suited to ecologically multifunctional landscapes in northeastern North America.

New Strategies for Water Conservation and Protection

Green Infrastructure 2.0: Innovations in Stormwater Management

– Jon Ford and Brian Kuchar

Mr. Ford and Mr. Kuchar will explore effective strategies for designing and maintaining green infrastructure systems in a variety of neighborhood and urban contexts. They will present case studies and highlight lessons learned from the design, construction, and use of urban bioretention systems and permeable paving. They will also discuss neighborhood planning, stormwater regulations and guidance for municipalities, and improvements of Best Management Practice design to reduce maintenance demands and to improve function over time.

2:00pm–3:30pm

From Seed to Success: Creating and Sustaining Dynamic Landscapes

Strategies for Solving Plant Problems

– Dan Cooley, Andrew Gapinski, Joe Elkinton

We've all been faced at some point with the task of trying to figure out what's ailing our plants. How do we tell whether a problem is due to a pest, a disease, or a cultural problem? Are there specific clues that can help guide us in the right direction? Is treatment always necessary or is it sometimes best to let nature take its course? What insects or pests are expected to be of significant concern in the near future? Today's panelist will endeavor to provide us with answers, strategies, and recommendations based on their area of expertise: Mr. Cooley, disease management; Mr. Elkinton, entomology; and Mr. Gapinski, cultural practices. Bring your questions!

New Strategies for Water Conservation and Protection

Fertilizer Regulations and Water Quality: A Look at Theory and Implementation

– Mary Owen

Regulations regarding the sale, use, and application of fertilizer and nutrients on turf and in the landscape have been considered or enacted by many states and communities. This session will look at the particulars of several pending and existing laws in the northeast with attention to exemptions and restrictions on the use of organic fertilizers, soil amendments, and composts. In addition, Ms. Owen will discuss strategies for implementing best nutrient management practices for turf with protection of water resources as the priority.

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February 25, 2015 Wednesday Intensive Workshops (continued)

4:00pm–5:30pm

From Seed to Success: Creating and Sustaining Dynamic Landscapes

Mimicking Forest Ecosystems: Designing Intentional Plant Communities

– Dave Jacke

When we mimic natural ecosystems in landscape design we seek to regenerate healthy ecological functions while meeting human needs. Conscious design, with clear scientific framing and practical design processes, allows us to place the right building blocks—species, landscape components, and interventions—into patterns that support the formation of symbiotic relationships. This presentation lays out these frames, processes, concepts and dynamics, and illustrates them with several examples.

New Strategies for Water Conservation and Protection

Managing the Unpredictable: From Drought to Deluge

– Paul Kwiatkowski and Rebecca McMackin

Climate change is causing unpredictable weather. We're seeing shifts in snow and rainfall patterns, more heavy rainstorms, and record high and low temperatures. Some areas are suffering from severe drought and others from frequent deluge. How can we design and manage our landscapes to withstand these changes and to prevent or reduce the problems of erosion, flooding, and scarcity of water? Ms. McMackin and Mr. Kwiatkowski will discuss the changes they see taking place at Brooklyn Bridge Park in New York, and Mount Auburn Cemetery in Cambridge, MA respectively, and the strategies they are applying to address both imminent and potential changes.

6:30-8:30pm

Keynote Dinner

The Essential Layers of Living Landscapes

– Rick Darke

The richness of life in any landscape is linked to the diversity in its layers, and this is true for both people and wildlife. Rick Darke will look at layers from ground cover to canopy and will describe and illustrate how to conserve, create and manage them in landscapes that are beautiful, biologically diverse, and joyfully livable. Using examples from a wide range of public and private projects, he will present a practical, ecologically sound approach to layering that he calls spacemaking with organic architecture.



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February 26, 2015 Thursday Conference Sessions & Idea Exchanges

7:00am–8:30am Exhibit Hall A

Irrigation Workshop and Demonstration

– John Swaringen of Bartlett Tree Experts

John Swaringen of Bartlett Tree Experts will demonstrate several of the new “smart” irrigation controllers and devices that help conserve water. He will discuss the basics of water-efficient design and show us how to fix common problems such as broken sprinkler heads and cut lines. Mr. Swaringen will also provide recommendations on how to discuss irrigation requirements with both irrigation professionals and homeowners.

8:30am–10:00am

Designing with Tree Preservation in Mind

– Lauren Wheeler and CJ Lammers

Whether designing for stormwater management, planning new construction, or simply staging on-site, what are the strategies used to protect and preserve trees? Ms. Lammers will give an overview of tree biology, critical root zones, tree protection plans, and tree species sensitivity to disturbance. Ms. Wheeler will provide a designer’s perspective on how to conduct a tree-centered site analysis and how to find creative solutions to the complex problem of preserving trees while maintaining the integrity of the design. They will draw upon case studies to illustrate the principles of tree protection and parse out the benefits of an integrated design process.

SITES v2 – Rating System Guidelines and Performance Benchmarks

– Melanie Sifton

Built on knowledge gained from the SITES Pilot Program, a two-year phase that tested guidelines and performance benchmarks, the Sustainable Sites Initiative developed the SITES v2 rating system. SITES v2 is the first rating system available to the public for certifying a landscape as sustainable. Covering all stages of the process, from site selection

to maintenance of the landscape, the rating system provides performance measures rather than prescribing practices, and supports the concept that each site is unique, requiring flexibility and creativity as part of the design process. Ms. Sifton will outline SITES v2 and give us an overview of the process and the goals.

Idea Exchange

Preventative Rx for the Landscape

– Kelly Gill, Dr. Brian Maynard, Chris Roddick

Our forests and waterways are essentially the kidneys, lungs and veins of the landscape, cleaning, filtering and cycling water, air and nutrients. These natural systems and the native species that support them are under increasing pressure. Climate change, development, forest fragmentation, invasive species, plant diseases, and overuse of pesticides and fertilizers are creating enormous disturbance and change in the landscape. What preventative steps can we take to preserve these systems and the ecosystem functions that they provide? How do we change traditional, cultural expectations that lead to poor landscaping practices that exacerbate ecological problems? From protecting bees to saving trees, join our experts and share your solutions for preserving and restoring the health of our landscapes.

10:30am–12:00pm

Locally Sourced: Growing Native Plants from Collected Seed

– Uli Lorimer

Building upon a century of native plant stewardship and conservation, the Brooklyn Botanic Garden (BBG) has expanded its collection using a unique approach for sourcing plant material. Focusing on pine barrens and coastal plain grasslands, the plants for the expansion were all grown from seed collected in the wild and from locations as local to New York City as possible. This approach has

been both rewarding and challenging! Mr. Lorimer will touch upon the history, design and execution of BBG’s expansion, as well as the opportunities that have resulted from the expansion process.

The Challenge of Residential Design and Rating Systems: A Case Study of the Gaddy House

– Lauren Wheeler

Ms. Wheeler will provide a detailed look at the process of designing with rating system checklists, and will give an overview of the various rating systems, including SITES, as they apply to the residential designer. She will discuss various landscapes that have been certified or are in the process of being certified, focusing specifically on The Gaddy House located in Clarksville, MD. Applications for LEED v4 for Home Designs and Living Building Challenge certification for the Gaddy House have been submitted.

Idea Exchange

Restoring the Urban Canopy: How Many Trees are Enough?

– George Batchelor, CJ Lammers, Matthew Stephens

Massive city tree planting campaigns have invigorated the urban forestry movement and Million Tree initiatives have been launched in cities across the country. These programs are based on research that has monetized the environmental and the socioeconomic benefits of trees. These benefits play a major role in urban natural resource management, but canopy is continuing to decline in many locations. Some research is finding that tree planting and natural regeneration are insufficient to offset the current losses. How many of the newly planted trees survive to provide environmental benefits? How many trees are enough? Join our panel in addressing these questions and more.

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February 26, 2015 Thursday Conference Sessions & Idea Exchanges (continued)

1:30pm–3:00pm

Naturalizing Hardscapes: Creative Approaches to Transforming Harsh Urban Spaces

– Lisa Cowan

How does a harsh urban hardscape get turned into a meaningful and innovative landscape with native plants, mosses, local natural stone materials, and recycled glass? Lisa Cowan will talk about the process for taking what seemed like an impossible context and turning it into a landscaped art feature symbolic of the river system adjacent to the site. Ms. Cowan will discuss the innovative design tools that were used to communicate with clients and to expedite bids, as well as her experience working with stone materials in non-traditional ways, soil specifications, and creative on-site approaches which allowed the design and construction team to collaborate, eliminate change orders, and complete the project on-time.

The Built Landscape: Innovative Models and Tools of the Trade

– Jason Wirick

This presentation will explore the Living Building Challenge as a model for creating landscapes that are visually and functionally integrated with buildings. Using the Phipps Conservatory and Botanical Garden's Center for Sustainable Landscapes project as a case study, Mr. Wirick will discuss how, by mimicking natural water treatment processes, the landscape can be used to convey, store, and clean water to meet the needs of the building. He will discuss the lessons learned from maintaining and operating these systems, as well as review techniques, monitoring devices, and on-going performance data that can be used to evaluate these systems to demonstrate the benefit of green infrastructure over traditional water treatments.

Idea Exchange

Plant Responses to Climate Change: What Can We Expect?

– Dr. Jenica Allen, Dr. Bethany Bradley, Bill Brumback, Dr. Kristin Stinton

We know that our rural and suburban forests are being altered due to the repercussions of climate change. If we have an idea of what to expect, perhaps we can be better prepared to protect future ecosystems. Can we expect to see even greater increases in the populations of particular invasive plants? What kinds of changes might we expect to see in terms of our native New England plant communities? Rising CO₂ is resulting in an increase in the growth and toxicity of poison ivy. What other plants may be affected by changing levels of CO₂, and how will that affect larger ecosystems? Can we address these expected changes through plant selections or by altering our methods of preserving and managing the landscape? Join the discussion as our experts share their insights on what big changes we can expect in the future and give us their recommendations on what we can do to be prepared.

3:30pm–5:00pm

What is the Right Plant? New Plant Palettes for a Changing Climate

– Darryl Newman and Peter van Berkum

Climate change is forcing us to reconsider which plants we select for our landscapes. Our speakers, Darryl Newman, Planters' Choice Nursery of Newtown, CT and Peter van Berkum, Van Berkum Nursery of Deerfield, NH will discuss new plant palettes for the Northeast. Mr. Newman will talk about woody trees and shrubs with a focus on native (seedling and cultivar) materials, and Mr. van Berkum will discuss herbaceous plants that show exceptional toughness for adapting to climate changes such as varying soil moisture, temperature fluctuations, and flooding. Our speakers will highlight the attributes that make these plants good candidates, both ecologically and aesthetically, to consider in our landscapes.

The Buzz on Pollinators

– Kelly Gill

Pollinators are essential to our environment. They allow for the reproduction of more than 85 percent of the world's flowering plants and are critical to agricultural and natural ecosystems. More than two-thirds of the world's crop species are dependent on pollination, with an annual estimated value of \$18 to \$27 billion in the United States alone. Beyond agriculture, pollinators are responsible for the seeds and fruits that feed everything from songbirds to black bears. However, this essential service is at risk. Learn about practical ways to conserve and protect pollinators through plant selection, habitat design and improvement, and land management practices.

Idea Exchange

Designing within the Rating System

– Lisa Cowan, Melanie Sifton, and Lauren Wheeler

There are now several voluntary rating systems, such as SITES and the Living Building Challenge, that offer guidelines and benchmarks for sustainable land design, construction, and maintenance practices. These programs offer comprehensive science-based criteria to measure the sustainability of the construction process, the materials, and the performance of the constructed project. Achieving certification is great for marketing and for advancing ecological ideas, but requirements for documentation and follow-up to certify projects can add time and cost to a project. Our panel will give a brief overview of the various rating systems and highlight the pros and cons of using them in both residential and large-scale designs. Bring your questions for the audience discussion that follows!



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Speaker Biographies

Dr. Jenica Allen is a Postdoctoral Research Associate in the Department of Environmental Conservation at the University of Massachusetts, Amherst and an Assistant Research Scientist in the Department of Ecology and Evolutionary Biology at the University of Connecticut. Her research focuses on phenology and distributions of native and invasive plants in response to climate and land use change, primarily in the northeastern US. She is also part of an interdisciplinary team investigating the interactions of public policy, economics, land use change, land management, and invasive plant species in southern New England.

George Batchelor is Supervisor of Landscape Design for the Massachusetts Department of Transportation's Landscape Design Section, a position he has held for 17 years. He oversees the design and design review of highway planting projects for the Commonwealth, and provides policy and design guidance for both tree protection and vegetation management, including invasive plant management. Mr. Batchelor is a member of the Massachusetts Invasive Plant Advisory Group and serves as an advisor to the Massachusetts Tree Wardens' and Foresters' Association Board of Directors.

Dr. Bethany Bradley is an Assistant Professor of biogeography and spatial ecology in the Department of Environmental Conservation at the University of Massachusetts, Amherst. She is interested in how the geographical locations of species across landscapes and regions can inform risk assessments and conservation planning. Her research focuses on terrestrial plant invasions with the goal of understanding how invasion

risks vary spatially in the context of anthropogenic disturbance and climate change.

Rolf Briggs is a certified arborist, consultant, educator and founder of Tree Specialists, Inc. of Holliston, Massachusetts. Specializing in the conservation, preservation and restoration of specimen trees, Mr. Briggs works with residential property owners and professionals to develop plans to assess and manage their plant collections.

Bill Brumback began his work with native plants as the Propagator for the New England Wild Flower Society (NEWFS) and has been the Conservation Director since 1990. His focus has been on the conservation of endangered plants of the region, including seed banking and invasive species management, and has included the propagation and transplantation of Robbin's Cinquefoil (*Potentilla robbinsiana*) in the White Mountains of NH as part of the removal of this species from US Endangered Species List. Mr. Brumback has also developed a regional list of plants in need of conservation (*Flora Conservanda* 1996 and 2012), produced the recent field manual for plants of the region (*Flora Novae Angliae*) and Go Botany, a NEWFS website for identification of the region's plants.

Daniel Cooley has worked for over 30 years on the ecology and management of plant diseases. He is on the faculty at the University of Massachusetts, Amherst where he focuses on research, teaching, and outreach to growers and the public. He is

also involved in the development and refinement of weather-based disease forecasting models, implementation of web-based decision support, testing of both fungicides and non-fungicidal management methods, and evaluation of disease management tactics on the environment. Mr. Cooley has published many articles and outreach publications and has delivered talks on fruit tree disease management internationally.

Lisa Cowan, PLA, Principal of Studioverde, is a landscape architect with expertise in ecology-based planning, design, and land management. Ms. Cowan is an officer in the American Society of Landscape Architects Sustainable Design and Development Professional Practice Network. Her work includes the Margaret Chase Smith Federal Building, a gateway landscape for a customs and border protection station, and over thirty ecological design projects creating wetland, riparian, and upland habitat.

Rick Darke heads RICK DARKE LLC, a Pennsylvania-based consulting firm focused on landscape ethics, photography, and contextual design. Darke's work blends art, ecology, and cultural geography in the design and management of living landscapes. Projects include parks, scenic byways, transportation corridors, corporate and collegiate campuses, conservation developments, post-industrial and historic brownfields, botanic gardens, and residential landscapes. His many books including *The American Woodland Garden: Capturing the Spirit of the Deciduous Forest*, *The*

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Speaker Biographies

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Encyclopedia of Grasses for Livable Landscapes, and *The Living Landscape: Designing for Beauty and Biodiversity in the Home Garden* co-authored with Doug Tallamy.

Joe Elkinton is a professor of entomology in the Department of Environmental Conservation at the University of Massachusetts, Amherst. He joined the faculty in 1980 after receiving his PhD from the University of California, Berkeley. His laboratory conducts research on population dynamics and biological control of invasive forest insects. His current focus is on the biological control and population dynamics of winter moth and hemlock woolly adelgid. He is currently involved with efforts to introduce predatory beetles to control hemlock woolly adelgid and a tachinid parasitoid to control winter moth.

Anna Fialkoff is a horticulturist at the New England Wildflower Society's botanic garden, Garden in the Woods, in Framingham, Massachusetts where she works on creating ecological landscapes and helps educate the public. Ms. Fialkoff received her MA in Landscape Design from the Conway School, in Conway, Massachusetts and studied fine arts and ecology at College of the Atlantic in Bar Harbor, Maine. In addition to her design and horticultural work, she has also been involved with sustainable agriculture.

Jon Ford, PE, is a Senior Project Manager at the Horsley Witten Group. His planning and design approach is based on the principles of New

Urbanism and the belief that compact, walkable neighborhood design creates vibrant, livable places in balance with nature. Mr. Ford is a Knight Fellow in Community Building at the University of Miami's School of Architecture, co-founder and past President of the New England Chapter of the Congress for the New Urbanism (CNU), and on the faculty of the Form Based Codes Institute. His projects have won numerous awards, including a CNU New England Award of Excellence, Rudy Bruner Award for Urban Excellence Silver Medal, and Boston Society of Landscape Architects Honor Award. He serves on the Board of Directors of the New England Chapter of the Congress for the New Urbanism, Ecological Landscape Alliance, and Blackstone Parks Conservancy.

Andrew Gapinski is the Manager of Horticulture for The Arnold Arboretum of Harvard University. He leads a team of horticulturists and arborists in overseeing the stewardship of the Arboretum. Formerly, Mr. Gapinski served as Director of Horticulture and Curator at The Arboretum at Penn State, and as a Horticulturist at The Morton Arboretum. He holds a BS in Horticulture from the University of Wisconsin-Madison and a MS in Public Horticulture from the Longwood Graduate Program at the University of Delaware.

Kelly Gill is the Pollinator Conservation Specialist for The Xerces Society for Invertebrate Conservation and a Partner Biologist with the USDA Natural Resources Conservation Service (NRCS) in the Mid-Atlantic and Northeast Regions. She provides technical support to NRCS staff, farmers, and

landowners for implementing Farm Bill practices to conserve pollinators and other beneficial insects. This technical support includes planning, installing, and managing pollinator habitat on farms and in natural areas. She holds a MS in Entomology from Iowa State University.

Heather Heimarck is the director of The Landscape Institute at Boston Architectural College, formerly the Radcliffe Seminars Landscape Design Program. Her professional work spans from large-scale urban planning projects, such as the Lower Charles River Basin, to campus and institutional work, streetscapes, bike lanes, and residential design. Her projects include some of the first residential and commercial properties to become LEED certified in Massachusetts. Heather received a MLA from the Graduate School of Design at Harvard University and is a registered landscape architect in Rhode Island and Massachusetts, a LEED Green Associate, a member of the United States Green Building Council, Association of Landscape Architects, Ecological Landscape Alliance, and New England Landscape Design and History Association.

Dave Jacke is the owner of Dynamics Ecological Design, an ecological design firm, and has been a student of ecology and design since the 1970s. A passionate designer and educator, Mr. Jacke has consulted on, designed, built, and planted residential landscapes, farms, and communities. He holds a BA in Environmental Studies with a minor in Land Use Planning from Bard College of Simon's Rock in Massachusetts, and a MA in Landscape

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Design from the Conway School of Landscape Design.

Dan Jaffe is the propagator and stock bed grower at New England Wild Flower Society (NEWFS) in Framingham, Massachusetts. He earned a degree in botany from the University of Maine and an advanced certificate in Native Plant Horticulture and Design from NEWFS. After interning at Garden in the Woods, Dan worked for a year as Plant Sales Coordinator at the Garden.

Paul Kwiatkowski is the staff conservationist and assistant greenhouse manager at Mount Auburn Cemetery, where he has worked for the past 15 years. He works on diverse projects of land and water conservation and restoration and has contributed to the Cemetery's Master Plan for Sustainability. He has a degree in Ecology from Evergreen State College and has extensive training in the Soil Foodweb.

Brian Kuchar, PE, RLA, LEED AP, is a Senior Landscape Architect/Project Manager at Horsley Witten Group. With over 17 years of experience in landscape architecture and environmental engineering, he has been involved with site planning, urban design, low impact development, green infrastructure, and land management planning. Mr. Kuchar has been employed in both the public and private sector and has experience with a broad range of projects including institutional, commercial, and residential land development. He has collaborated with the EPA on the development of a handbook for urban green infrastructure

and stormwater retrofits as part of the EPA's Green Infrastructure Municipal Handbook Series. He has also served as an adjunct professor in the Landscape Architecture Department at the University of Rhode Island.

CJ Lammers is a nationally-known speaker and advocate for all things green. For 28 years she has worked with state and local governments on tree and forest preservation, small and large landscape conservation, green infrastructure, and environmental land use policies and strategies. As a Master Environmental Planner, she implements environmental legislation and advises decision-makers on issues related to agriculture, forestry, and ecology. Ms. Lammers is the primary author of the first-ever functional land use plan for the environment at the county scale. She was one of the founding professors of the George Washington University's Sustainable Landscapes Program where she teaches *Introduction to Sustainable Design*.

Uli Lorimer is the Curator of Native Flora at Brooklyn Botanic Garden (BBG). He works closely with staff scientists and regional botanists to expand the garden's native plant collections with locally sourced, wild collected plants. Mr. Lorimer teaches Botany as part of the BBG's Horticulture Certificate Program. Prior to the BBG, he worked at Wave Hill in the Bronx and at the US National Arboretum. Mr. Lorimer also serves as the Program Chair for the Torrey Botanical Society, the oldest botanical society in the western hemisphere.

Dr. Brian Maynard is a Professor of Environmental Horticulture at the University of Rhode Island. Dr. Maynard stresses the importance of understanding plant biology, structure, and function in order to practice sustainable landscaping. Prior to teaching he worked as a Restoration Horticulturist with the Soil Conservation Service and as a graduate student and post-doctoral researcher with the Urban Horticulture Institute at Cornell.

Rebecca McMackin is Director of Horticulture at Brooklyn Bridge Park, where she oversees 85 acres of ornamental beds, forest ecosystems, meadows, wetland, green roofs, and turf areas. She is an ISA-certified arborist, instructor at the Brooklyn and New York Botanical Gardens, and board member of the Ecological Landscape Alliance, Metro Hort, and the Torrey Botanical Society. Ms. McMackin's work has been published by the New York Times and the Landscape Institute. She also owns Mantis Plant Works, an ecologically obsessed design-build and consulting firm.

Darryl Newman is a principal at Planters' Choice Nursery, a grower and re-wholesaler of nursery stock and related goods in Newtown and Watertown, Connecticut. Mr. Newman worked for two prominent Landscape Design/Build firms in the Washington, DC Metro area prior to returning to Connecticut and his roots. He is also the Vice President of the Connecticut Nursery and Landscape Association. He holds a degree in Landscape Management from the University of Maryland.

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Mary Owen, a veteran educator, is the team leader and technical specialist for the University of Massachusetts, Amherst, Extension Turf Program where she oversees the development of programs and publications for lawn and land care professions. Ms. Owen provides technical consultations for professional turf and grounds managers, volunteer and community groups, and others interested in lawn and land care. Ms. Owen is a founding member of the New England Sports Turf Managers Association and currently serves as a special advisor. She is an active participant in the Massachusetts Association of Lawn Care Professionals, the New England Regional Turfgrass Foundation, and the national Sports Turf Managers Association and has served on her local Conservation Commission and Parks and Recreation Commission.

Mark Richardson oversees the New England Wildflower Society's botanic garden, Garden in the Woods, and its native plant nursery operation, Nasami Farm in Whately, Massachusetts. He studied ornamental horticulture at University of Rhode Island and helped run a mid-sized ornamental plant nursery before finding his true passion in public horticulture. He led undergraduate programs at Longwood Gardens, overhauled the curriculum of the Professional Gardener Program, and oversaw adult education at Brookside Gardens. In 2013, Mr. Richardson assisted with the development of the first comprehensive master plan for Garden in the Woods. He holds a MS from the University of Delaware's Longwood Graduate Program.

Christopher Roddick is the Head Arborist and Foreman of Grounds at the Brooklyn Botanic Garden (BBG). For over 20 years, he has developed the garden's tree care program and established the BBG as a leader in Conservation Arboriculture and veteran tree care. Mr. Roddick consults with landscape architects, designers, and private clients on mature tree preservation, tree risk assessments, and tree protection in construction and development sites. He is the author of the *Tree Care Primer*, a guide to caring for young, mature, and veteran trees.

Melanie Sifton is vice president of Horticulture and Facilities at the Brooklyn Botanic Garden (BBG) and oversees the stewardship of the 52-acre urban site. Prior to joining BBG, Ms. Sifton was director of the Humber Arboretum and the Centre for Urban Ecology in Toronto where she was responsible for the development and curation of plant collections, landscape maintenance, and educational programming and research. In addition to her work at the BBG, Ms. Sifton is a technical advisor for the Sustainable Sites Initiative. Ms. Sifton received a master degree in public garden leadership from Cornell University, a diploma in horticulture from the Niagara Parks Commission, and a bachelor of arts from McGill University, in addition to numerous other certifications in various horticultural operations and disciplines.

Kate Stafford is Nursery Operations Manager and Propagator at New England Wildflower's Nasami Farm in Whately, Massachusetts. She focuses on growing regionally native plants

from wild-harvested, sustainably collected seed. In addition to her other duties, Ms. Stafford runs the nursery volunteer program, teaches courses, and writes articles. Ms. Stafford received a BS in Biology from the University of Massachusetts.

Matthew Stephens has worked at New York City Parks for eight years where he currently leads the tree planting program, a citywide initiative to green the streets. He worked to increase the overall efficiency of the tree planting program, implemented a platinum level customer service program, and led the development of the Parks' innovative tree procurement program. Mr. Stephens received a BS in Horticulture from Illinois State University and a MS in Public Horticulture from the University of Delaware in the Longwood Graduate Program.

Dr. Kristina Stinson is an Assistant Professor in the Department of Environmental Conservation at University of Massachusetts. She specializes in plant ecology with a focus on responses to global change and biological invasion. Dr. Stinson has a PhD in Ecology & Evolutionary Biology from Princeton University and a BS from Bennington College. She is currently investigating how garlic mustard affects soil microbes and plant species, and looking at the effect of global change on the distribution of common ragweed. Her work has been published widely, appearing in scientific journals, textbooks, management guides, and in the popular press.

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John Swaringen is a Water Management Representative for Bartlett Tree Experts in Osterville, MA. He is knowledgeable about the design, installation and maintenance of watering and sprinkler systems. Mr. Swaringen is a Certified Irrigation Contractor and Plant Health Care Specialist.

Peter van Berkum, along with his wife Leslie, started Van Berkum Nursery (VBN) in 1986. VBN is a wholesale perennial nursery specializing in natives, shade perennials and *Wicked Ruggeds*, plants that perform well and last a long time in New England landscapes. Mr. van Berkum has a degree in Plant Science from the University of New Hampshire, spent a year studying horticulture in the Netherlands and worked at several nurseries before starting VBN. He is a past president of the New Hampshire Plant Growers Association, as well as a founding member of the New Hampshire Horticulture Endowment. He and his wife were recipients of the Massachusetts Horticulture Societies Silver Medal. Mr. van Berkum was the Perennial Plant Association's Grower of the Year in 2013. He lectures locally and nationally.

Lauren Wheeler has designed award-winning landscapes, from intimate urban gardens to retirement developments. She specializes in developing complex stormwater management solutions for small-scale settings in addition to providing consultation to industry professionals. Ms. Wheeler is Associate Director and faculty in The George Washington University's (GWU) graduate program in Sustainable Landscapes.

Most recently, she taught GWU's small-scale stormwater management and design course, *Tools for Sustainable Design*. Using real-world integrated design principles, the course takes a collaborative teaching approach that engages a soil specialist, a civil engineer, a landscape designer, and local regulators to convey the many intricate nuances that comprise effective stormwater management to new and practicing design professionals.

Jason Wirick, LEED AP, is the Director of Facilities and Sustainability at Phipps Conservatory in Pittsburgh, Pennsylvania. His team manages the operations of the new Center for Sustainable Landscapes (CSL) building on Phipps' campus. The CSL building achieved a LEED Platinum certification, Sustainable SITES Initiative Gold certification, WELL Building Standard Platinum certification, and is in the performance period for the Living Building Challenge full petal certification. Mr. Wirick has over 12 years of preconstruction services and project management and consulting experience. He holds a BS from Virginia Tech University and a MBA, with a focus in corporate sustainability and social responsibility, from Duquesne University.



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