Indiana Green Expo
Educational Program and Trade Show

January 8–10, 2014
Indiana Convention Center
Indianapolis, IN
IndianaGreenExpo.com

PRE-REGISTER
(by December 20)
AND SAVE!

Tools to help grow your product, personnel, and business.

NEW HARDSCAPE CERTIFICATIONS
Along with a great selection of workshops, IGE 2014 offers two new certification opportunities – Certified Concrete Paver Installer certification by ICPI and Certified SRW Installer certification by NCMA! See page 3 for details.

EDUCATIONAL TRACKS
Northern & Southern Golf Installation/Maintenance Lawn Care
Plant Materials Production Landscape Design
Hardscape Sports Turf Business

TRADE SHOW
Featuring green industry businesses, Thursday lunch ($10 with prepurchased tickets) and the Landscape Challenge.

LANDSCAPE CHALLENGE
An exciting trade show floor COMPETITION of landscape teams challenged with building a 300 sq. foot landscape/garden project in 4 hours with products from participating exhibitors!

Winner announced at INLA Awards Reception on Thursday night. Live auction of materials used benefit the INLA Scholarship fund. See page 11 for more information!
Featured Speakers

**Greg Ambrose**
Greg Ambrose started Fairlawn Consulting in 2007 to enhance the overall educational process for hardscape contractors. He specializes in hands-on seminars and sharing real-life experiences. Prior to starting his company, he spent seven years as Vice-President for a Cleveland-based hardscape company and has worked in various roles in the concrete paver industry since 1984.

**Bill Brown**
Bill has been recognized to be at the forefront of technology and social media within the turfgrass industry. Bill founded iTurf Apps which has become the leading source for turfgrass professionals. After working in the golf course industry for nearly twenty years, Bill is now CEO of Turf Republic.

**Mark Esoda, CGCS**
Mark is a graduate of the University of Georgia where he received his B.S. in Agriculture. He has been the Golf Course Superintendent at the Atlanta Country Club for past 24 years. He is Past President of the GGCSA and the University of Georgia, College of Agriculture Experiment Station Alumni Association.

**Kevin W. Frank, Ph.D.**
Kevin W. Frank, Ph.D., is an associate professor at Michigan State University. His research interests include turfgrass nutrition and fertilizer programming, nitrogen and phosphorus fate, winterkill prevention, and irrigation programming. He serves as the MSU Turfgrass Committee Chair and as the MSU Liaison to the Golf Association of Michigan.

**Bill Hendricks**
Bill Hendricks has been the President of Klyn Nurseries, Inc. since 1987. Active in the Ohio Nursery & Landscape Association, he serves as Chairman of the Short Course Program Committee and past member of the Plant Selection Committee. He has served on review boards for publications, taught a plant material course at Cleveland State University (1972 to 1992), and lectures regularly.

**Scott Knowles**
Scott Knowles is the president of the Wolf Creek Company. He has a passion for irrigation and now 35 years experience in sales, design, installation, and service for landscape, golf course, and agricultural irrigation systems. He is an authorized Irrigation Association Instructor and is an adjunct professor at Clark State University in the Agricultural Engineering Irrigation class. He is a Certified Irrigation Designer, Certified Irrigation Auditor, and Certified Irrigation Contractor.

**Wade Locklear**
Wade Locklear has certified hundreds of people on the principles of landscape design and engineering through the National Masonry Concrete Association as well as presented on the design and engineering of segmental retaining walls and permeable paver systems. Wade organized the first Green Infrastructure Paver Symposium with the Indianapolis Office of Sustainability, for which he was awarded the 2010 Indianapolis Sustainability Award by Mayor Greg Ballard.

**Bruce Martin, Ph.D.**
Dr. Martin is the research and extension turfgrass pathologist for South Carolina. He has been active in turf research, extension and teaching for the past 26 years with Clemson University. His programs include research and extension programs on fungicide performance, disease identification and management, and nematode management in commercial turfgrass systems.

**Bryant Scharenbroch, Ph.D.**
Bryant Scharenbroch is a Soil Scientist at the Morton Arboretum. His current research pertains to anthropogenic impacts on soil quality, tree health, and ecosystem function. He is an Associate Editor for *Arboriculture and Urban Forestry* and is the Vice-Chair of the Urban Tree Growth & Longevity Working Group and the Incoming Chair for Urban and Anthropogenic Division of Soil Science Society of America.

**Pamela Sherratt**
Pamela Sherratt is Sports Turf Specialist at the Ohio State University. She earned her B.S. from the University of Central Lancashire, England and a M.S. at The Ohio State University. Sherratt is active in teaching at Ohio State and in doing sports field research.

**David Shetlar, Ph.D.**
Dr. David Shetlar is a Professor of Urban Landscape Entomology at The Ohio State University where he performs outreach on turf and ornamental entomology, teaches general entomology and concentrates on turfgrass entomology research. He was a professor at Penn State, a Research Scientist with Chemlawn Services, and then joined Ohio State. Going by the professional nickname of The BugDoc, he produces the popular *P.E.S.T. Newsletter* in an association with the Ohio Nursery and Landscape Association.

**John Sorochan, Ph.D.**
A native of Calgary, Alberta, Canada, Sorochan is presently Associate Professor & Distinguished Scientist of Turfgrass Science and Management in the Plant Sciences Department at the University of Tennessee (UT). He is also the Co-Director for the UT Center for Athletic Field Safety. His research program coordinates investigations on environmental turf stress physiology for sports, golf course, and commercial and home lawn turf.

**Guy Sternberg**
Purdue grad Guy Sternberg, author of Native Trees for North American Landscapes, has been growing trees since 1952. He is a founding member and past president of the International Oak Society, a life member of the International Dendrology Society, and a founding life member of the Illinois Native Plant Society among many other activities. Sternberg is a certified arborist and retired registered landscape architect and developed Starhill Forest, the arboretum of Illinois College.

**Fred Whitford, Ph.D.**
Dr. Fred Whitford is the coordinator of Purdue Pesticide Programs of the Purdue Cooperative Extension Service. He received a B.S. in wildlife management from Louisiana Tech University, and an M.S. and Ph.D. in entomology from Iowa State University. He has written four books, more than 200 research, extension, or regulatory publications, and has delivered over 3,000 presentations to a wide array of audiences.
WORKSHOPS

WORKSHOP A / January 8
Turf 101: The Basics for Lawn Care Professionals
Cale Bigelow, Gabe Mocke, and Glenn Hardebeck, Purdue University
9:00 am – 12:00 pm • CCH = 3b: 3.0/RT: 3.0
This workshop is intended to be a starting point or refresher for lawn and landscape professionals. It will cover the fundamentals of how grasses grow, species selection, lawn establishment and an overview of the major cultural practices (mowing, fertilization and supplemental irrigation). In addition, the major lawn pests and suppression strategies will also be covered.

WORKSHOP B / January 8
Everything Water – Thinking Outside the Sprinkler
Mark Esoda, CGCS, Atlanta Country Club
9:00 am – 12:00 pm • CCH = 3b: 3.0/RT: 3.0
This workshop will offer some history of water issues, best management practices for water conservation, discuss current water issues and get the attendee to think a little differently about water management.

WORKSHOP C / January 8
Landscape Industry Certified (CLT-Exterior) Review & Written Exam
Jim Messmer, Vincennes University, retired
9:00 am – 12:00 pm
9:00 – 10:00 am: CLT Review (additional fee)
10:00 am – 12:00 pm: CLT Exam
Jim Messmer will review the basics of CORE training plus applicable modules (Softscape, Hardscape, Irrigation, Turf and Ornamental) followed by the written exam. Contact the INLA (800-443-7336) for program materials which are an additional fee.

WORKSHOP D / January 8
No Pond Necessary: Learning and Building Pondless Water Features
Dave LaFara, Tiffany Lawn and Garden Supply
9:00 am – 12:00 pm
This will be a very hands-on workshop, where you will learn by doing. This workshop will include setting up a basin, installing water fall rock and plumbing, and finishing out the project with a retaining wall around the basin. You will learn the best way to procure your specimen rock. This class will build a water feature that will welcome all attendees at the entrance of Indiana Green Expo.

WORKSHOP E / January 8
Pesticide Applicator Training (CORE)
Fred Whitford and Drew Martin, Purdue University
8:30 am – 5:00 pm
The first step in becoming certified to apply pesticides in Indiana is to pass the CORE examination. This examination covers pesticide laws, pesticide formulations, applicator safety, environmental protection, label comprehension and laws pertaining to pesticide use. This exam is required to become a registered technician (RT) or for anyone who applies restricted use pesticides on their own farm property (PARP).
All registration will be handled through The Extension Store at 888-398-4636. Registration is $60. The training manual is $30.

WORKSHOP F / January 8 & 9
ICPI Concrete Paver Installer Course
Greg Ambrose, Fairlawn Consulting
January 8: 9:00 am – 5:00 pm, Hyatt Hotel
January 9: 8:00 am – 5:00 pm, Hyatt Hotel
The two-day course equips individuals currently employed in the concrete paver installer industry with training and tools to properly install interlocking concrete paving systems. In addition, participants have the opportunity to pursue certification at the end of the workshop, as well as potential industry recognition in the future.

WORKSHOP G / January 8
Turf and Landscape Weed ID and Control
Aaron Patton and Kyle Daniel, Purdue University
1:00 – 4:00 pm
CCH = 3a: 3/0 3b: 3.0/ 6: 3.0/RT: 3.0
Weed identification is crucial to proper control with herbicides. Join Dr. Patton and Kyle Daniel in this workshop and learn how to identify 50 common turf and landscape weeds and how to control these pests. This will be a hands-on workshop with live samples of most (if not all) of these common weeds. Participants will be given time to review live samples in addition to the presentation on tips for identifying the various growth stages (vegetative and flowering) of these weeds. Whether you are an expert or a beginner, this workshop will provide a lot of good information.

WORKSHOP H / January 8
Critical Management Strategies for Your Putting Greens
Bruce Martin, Clemson University
1:00 – 4:00 pm • CCH = 3b: 3.0/RT: 3.0
Creeping bentgrass management in heat stress environments is a challenge. In this workshop, the ‘top ten’ important considerations and management suggestions will be covered, with emphasis on disease management and strategies for fungicide use.

WORKSHOP I / January 8
Indiana Accredited Horticulturist (IAH) Review and Exam
Jim Messmer, Vincennes University, retired
1:00 – 5:00 pm
1:00 – 3:00 pm: IAH Review (additional fee)
3:00 – 5:00 pm: IAH Exam
As an educator and experienced IAH facilitator, Jim will aid you in preparing for the afternoon exam. There will be ample time for questions and individual attention. The review is also a great refresher for those already certified — earn IAH CEUs by attending.
Contact the INLA (800-443-7336) for program materials which are an additional fee.

WORKSHOP J / January 9 / FREE
Tier 4 Diesel Engine Emissions Technology (FREE WORKSHOP)
Eric Baumeister, The Toro Company
8:00 – 11:00 am
Join Eric Baumeister from the Toro Company for a deeper dive into the effects of Tier 4 emission requirements (pertaining to Turf industry) and how it affects manufacturers and ultimately the end-user. We will look at the pros and cons of the resultant Tier 4 regulations and how to adapt to the new breed of products.

WORKSHOP K / January 10
NCMA Segmental Retaining Wall Installer Course
Wade Locklear, Stringline Consulting
8:00 am – 4:00 pm, Hyatt Hotel
The one-day Segmental Retaining Wall (SRW) Installer Course teaches installers fundamental SRW installation guidelines, material and system component properties, soils and compaction, the effect of water, and site practices. The Certified SRW Installer (CSRWI) Program is also available to each candidate who completes the SRW Installer Course and passes a written examination is certified as a Certified SRW Installer (CSRWI). This credential is highly valued by consumers.

Thursday, January 9, 2014

**IGE OPENING SESSION**

8:00 – 8:30 am  Welcome to the Indiana Green Expo  
Aaron Patton and Greg Shaffer, MRTF  
Kyle Daniel and Rich Blankenship, INLA

8:30 – 9:20 am  Starting with an Open Hand – Severe Drought: Lessons Learned in Dealing with Legislators and Regulators  
Mark Esoda, CGCS, Atlanta Country Club • CCH= 3a: 1.0/3b: 1.0/RT: 1.0

9:20 – 10:15 am  Hot Issues for the Green Industry: Final Imprelis Update, Bees and Insecticides, Landscape Pests Invade  
Aaron Patton, Doug Richmond, Adam Witte, and Janna Beckerman, Purdue University • CCH= 2: 1.0/3a: 1.0/3b: 1.0/RT: 1.0

**LAWN CARE TRACK**

1:00 – 1:45 pm  Calibrating Ride-On Sprayers: Part 1  
Fred Whitford and Aaron Patton, Purdue University • CCH= 3b: 0.75/RT: 0.75

1:45 – 2:30 pm  Calibrating Ride-On Sprayers: Part 2  
Fred Whitford and Aaron Patton, Purdue University • CCH= 3b: 0.75/RT: 0.75

2:30 – 3:00 pm  Break

3:00 – 4:00 pm  Macronutrients for Lawns – Not!  
Kevin Frank, Michigan State University • CCH= 3b: 1.0/RT: 1.0

4:00 – 4:45 pm  Adjuvants  
Fred Whitford, Purdue University • CCH= 3b: 0.75/RT: 0.75

4:45 – 5:00 pm  Presentation of the MRTF Green Award  
Fred Whitford and Tom List, MRTF • CCH= 3b: 0.75/RT: 0.75

**SPORTS TURF TRACK**

1:00 – 2:00 pm  Improving Native Soils for Athletic Fields  
Pamela Sherratt, The Ohio State University • CCH= 3b: 1.0/RT: 1.0

2:00 – 2:45 pm  Tips on Maintaining High Traffic Fields  
Andrew Gossel, Covenant Christian High School • CCH= 3b: 0.75/RT: 0.75

2:45 – 3:00 pm  Presentation of the MRTF Green Award  
Randy Brehmer and Jamie Mehringer, MRTF • CCH= 3b: 0.75/RT: 1.0

3:00 – 4:00 pm  Using PGRs on Athletic Fields  
Pamela Sherratt, The Ohio State University • CCH= 3b: 1.0/RT: 1.0

**PLANT MATERIALS**

10:30 – 11:30 am  Climbing the Walls: Old, Forgotten, and New Vines for the Landscape  
Bill Hendricks, Klyn Nurseries • CCH= 3b: 1.0/RT: 1.0

11:30 am – 1:00 pm  Break & Lunch

1:00 – 2:00 pm  Anatomy of a Tree Conflict  
Judi Scott, Vine and Branch

2:00 – 3:00 pm  Proven Landscape Color: Looking for Products That Will Deliver the Expected  
Jerry Gorchels, PanAmerican Seed Co. • CCH= 3b: 1.0/RT: 1.0

3:00 – 4:00 pm  Diversity: Preventing Monocultures in the Urban Landscape  
Bill Hendricks, Klyn Nurseries • CCH= 3a: 1.0/3b: 1.0/RT: 1.0

**HARDCOMPANY TRACK**

11:30 am – 1:00 pm  Climbing the Walls: Old, Forgotten, and New Vines for the Landscape  
Bill Hendricks, Klyn Nurseries • CCH= 3b: 1.0/RT: 1.0

11:30 am – 1:00 pm  Break & Lunch

1:00 – 2:00 pm  Anatomy of a Tree Conflict  
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3:00 – 4:00 pm  Diversity: Preventing Monocultures in the Urban Landscape  
Bill Hendricks, Klyn Nurseries • CCH= 3a: 1.0/3b: 1.0/RT: 1.0

**BUSINESS TRACK**

11:00 am – 12:00 pm  Design, Install, and Maintenance of Water Features  
David Lafara, Tiffany Lawn and Garden Supply

2:00 – 3:00 pm  7 Things That Have Changed in Landscape Lighting That You Should Know  
Mike Myers, Kenney Outdoor Solutions

3:00 – 4:00 pm  Break

4:00 – 5:00 pm  Hot Hardscapes: Tips for Building Outdoor Fireplaces and Fire Pits, Robert Johnstone, Fireboulder

**INSTALLATION/MAINTENANCE**

11:00 am – 12:00 pm  CRUD: Compaction and Remediation of Urban Dirt  
Bryant Scharenbroch, Morton Arboretum • CCH= 3a: 1.0/3b: 1.0/RT: 1.0

1:00 – 2:00 pm  Effective Fungicides for Common Landscape Diseases  
Janna Beckerman, Purdue University • CCH= 2: 1.0/3a: 1.0/RT: 1.0

2:00 – 3:00 pm  ArborChar – Arboriculture and Biochar  
Bryant Scharenbroch, Morton Arboretum • CCH= 2: 1.0/3a: 1.0/RT: 1.0

3:00 – 4:00 pm  Tips for Efficient Landscape Irrigation  
Scott Knowles, Wolf Creek Company • CCH= 3a: 1.0/3b: 1.0/RT: 1.0

4:00 – 5:00 pm  An Overview of Tier 4 Diesel Engines  
Eric Baumeister, The Toro Company

**DONT MISS EVENTS**

**LUNCH ON THE TRADE SHOW FLOOR**

$10 Pre-purchased/$15 at show  
Add tickets to your registration!

**LANDSCAPE CHALLENGE**

Competition: 10:30 am – 2:30 pm  
Voting 2:30 – 5:00 pm
### THURSDAY’S SPECIAL EVENTS

**2nd Annual Landscape Challenge:**
10:30 am – 2:30 pm, Trade Show Floor
Landscape teams compete to build a 300 sq. foot landscape/garden project in 4 hours with products from participating exhibitors! Attendees and Judging Committee will vote on the winners. The winning team will earn the prestigious title of “Masters of the 2014 Landscape Challenge,” a plaque, plus team cash prize! Registration on page 11.

**Indiana Green Expo 2014 Opening Session**

Welcome to the Indiana Green Expo
Starting with an Open Hand – Severe Drought: Lessons Learned in Dealing with Legislators and Regulators
Mark Esoda, CGCS, Atlanta Country Club
Hot Issues for the Green Industry

**Thursday Lunch at the Trade Show for $10 (pre-purchased)!**
A great bargain which allows you more time to spend checking out new products! Save $5 on pre-purchased lunch tickets. See registration form.

**MRTF Awards Ceremony:**
5:00 – 7:00 pm, Convention Center
Join us for presentation of scholarship and award winners. We will be honoring Bob Brame with the 2013 MRTF Distinguished Service Award.

**InLA Scholarship Silent Auction:**
10:00 am – 5:00 pm, Convention Center
Auction closes Friday at 12 noon. All proceeds benefit the InLA Scholarship Fund (INEF)

**InLA Annual Meeting and Awards Reception:**
5:00 – 7:00 pm, Convention Center • Features landscape and special achievement awards.
A don’t miss event for InLA members! Landscape Challenge Winner announced PLUS an auction of challenge product

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### THURSDAY JANUARY 9

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**InLA Scholarship Silent Auction:**

$10 Pre-purchased /$15 at show • Add tickets to your registration!
FULL CONFERENCE SCHEDULE

Friday, January 10

**LAWN CARE TRACK**

8:00 – 8:45 am  Maximizing Your Insect Control & Minimizing Costs!  
David Stetler, The Ohio State University  
CCH= 3a: 0.75/3b: 0.75/RT: 0.75

8:45 – 9:30 am  Become Mobile and App-ficient – Integrating Mobile Devices and Their Apps for Lawn Care Professionals  
William Brown, CGCS, Turf Republic  
CCH= 3b: 0.75/RT: 0.75

9:30 – 10:00 am  Break

10:00 – 11:00 am  Reel After Mowing Appearance: Understanding What Occurs and What You Can Do to Improve It  
Eric Baumheister, The Toro Company

11:00 am – 12:00 pm  Update from the Indiana State Chemist’s Office  
Joe Becovitz, Office of the Indiana State Chemist  
CCH= 2: 1.0/3a: 1.0/3b: 1.0/5: 1.0/6: 1.0/7A: 1.0/RT: 1.0

12:00 – 1:00 pm  Lunch

1:00 – 2:00 pm  The New Bentgrasses: Stronger, Denser, Faster?  
Cale Bigelow, Purdue University  
CCH= 3b: 1.0/RT: 1.0

2:00 – 2:30 pm  Update from the Indiana State Chemist’s Office  
Joe Becovitz, Office of the Indiana State Chemist  
CCH= 2: 1.0/3a: 1.0/3b: 1.0/5: 1.0/6: 1.0/7A: 1.0/RT: 1.0

2:30 – 3:00 pm  How Turf Selection Influences Your Mowing  
Quincy Law, Purdue University  
CCH= 3b: 0.5/RT: 0.5

3:00 – 4:00 pm  Alternative Lawn Fertilization Strategies to Maximize Health  
Cale Bigelow, Purdue University  
CCH= 3b: 1.0/RT: 1.0

**NORTHERN GOLF TRACK**

8:00 – 8:45 am  Nematodes – Everything You Wanted to Know and More!  
Rob Golembiewski, Bayer Environmental Science  
CCH= 3b: 0.75/RT: 0.75

8:45 – 9:30 am  Insect Update  
Doug Richmond, Purdue University  
CCH= 3b: 0.75/RT: 0.75

9:30 – 10:00 am  Break

10:00 – 11:00 am  Foliar Fertilization – What Happens to Soil Nutrients?  
Kevin Frank, Michigan State University  
CCH= 3b: 1.0/RT: 1.0

11:00 am – 12:00 pm  Rolling for Dollars: Creeping Bentgrass Management Under Heat Stress  
John Sorochan, University of Tennessee  
CCH= 3b: 1.0/RT: 1.0

12:00 – 1:00 pm  Lunch

1:00 – 2:00 pm  The New Bentgrasses: Stronger, Denser, Faster?  
Cale Bigelow, Purdue University  
CCH= 3b: 1.0/RT: 1.0

2:00 – 2:30 pm  Update from the Indiana State Chemist’s Office  
Joe Becovitz, Office of the Indiana State Chemist  
CCH= 2: 1.0/3a: 1.0/3b: 1.0/5: 1.0/6: 1.0/7A: 1.0/RT: 1.0

2:30 – 3:00 pm  How Turf Selection Influences Your Mowing  
Quincy Law, Purdue University  
CCH= 3b: 0.5/RT: 0.5

3:00 – 4:00 pm  USGA Green Section, North Central: Year in Review  
Keith Hopp, USGA Green Section

CCH= 3b: 1.0/RT: 1.0

**PLANT MATERIALS**

8:00 – 9:00 am  Plants for Storm Water Plantings  
Mark O’Brien and Drew Bender, Cardno JFNew  
CCH= 3a: 1.0/3b: 1.0/RT: 1.0

9:00 – 10:00 am  Break

10:00 – 11:00 am  Great Perennials for Great Landscapes  
Kate Jones, Blue Moon Farm

11:00 am – 12:00 pm  Nurseries, Natives, and Invasives  
Mark Gilson, Gilson Gardens, Inc.

12:00 – 1:00 pm  Lunch

1:00 – 2:00 pm  Answering Common Homeowner Plant Questions  
Rosie Lerner, Purdue University

2:00 – 3:00 pm  Cute Puppies to Big, Ugly Dogs: Proper Plant Selection  
George Brenn, Four seasons Landscaping Nursery  
CCH= 2: 1.0/3a: 1.0/RT: 1.0

3:00 – 4:00 pm  Super Succulents  
Mark Gilson, Gilson Gardens, Inc.

**SPORTS TURF TRACK**

8:00 – 9:00 am  Sports Turf Research focusing on Athlete Safety & Performance  
John Sorochan, University of Tennessee  
CCH= 3b: 1.0/RT: 1.0

9:00 – 10:00 am  Billbugs, Grubs and Ants! Short-term and Long-term Management Strategies  
David Stetler, The Ohio State University  
CCH= 3b: 1.0/RT: 1.0

10:00 am – 1:00 pm  Break & Lunch

1:00 – 2:00 pm  Predicting & Diagnosing Turf Problems  
Pamela Sherratt, The Ohio State University  
CCH= 3b: 1.0/RT: 1.0

2:00 – 3:00 pm  Selecting, Purchasing, and Maintaining Synthetic Turf  
John Sorochan, University of Tennessee  
CCH= 3b: 1.0/RT: 1.0

3:00 – 4:00 pm  Indiana Chapter of the STMA – Business Meeting  
Joey Stevenson, Indianapolis Indians

**SOUTHERN GOLF TRACK**

8:00 – 9:00 am  Zoysiagrass Research at Purdue University  
Aaron Patton, Purdue University  
CCH= 3b: 1.0/RT: 1.0

9:00 – 10:00 am  Considering Bermudagrass on Your Golf Course? Cultivar Selection and Management  
Cale Bigelow, Purdue University  
CCH= 3b: 1.0/RT: 1.0

10:00 am – 1:00 pm  Break & Lunch

1:00 – 2:00 pm  Managing Diseases in Warm-Season Grasses  
Rick Latin, Purdue University  
CCH= 3b: 1.0/RT: 1.0

2:00 – 3:00 pm  Bermudagrass and Zoysia Fertilization: What’s the Latest Scoop  
Jon Trappe, Purdue University  
CCH= 3b: 1.0/RT: 1.0

**INSTALLATION/MAINTENANCE**

8:00 – 9:00 am  This Isn’t Your Parents’ Product: Glyphosate Effects on Woody Plants, Kyle Daniel, Purdue University  
CCH= 2: 1.0/3a: 1.0/RT: 1.0

9:00 – 10:00 am  Installing and Troubleshooting Landscape Lighting  
Mike Myers Kenney Outdoor Solutions

10:00-11:00 am  Managing Calico Scale: A Surging Pest of Indiana Adam Witte, Purdue University  
CCH= 2: 1.0/3a: 1.0/RT: 1.0

11:00 am – 1:00 pm  Break & Lunch

1:00 – 2:00 pm  What Do Trees Think About Pruning? Response and Recovery  
Lindsey Purcell, Purdue University  
CCH= 2: 1.0/3a: 1.0/RT: 1.0

3:00 – 4:00 pm  Update from the Indiana State Chemist’s Office  
Joe Becovitz, Office of the Indiana State Chemist  
CCH= 2: 1.0/3a: 1.0/3b: 1.0/5: 1.0/6: 1.0/7A: 1.0/RT: 1.0

**CAREER DEVELOPMENT**

8:00 – 9:00 am  Becoming a Turfgrass Turfgrass Technician  
Hannah Sokol, The Ohio State University

9:00 – 10:00 am  Troubleshooting Turfgrass Problems  
Dave Helms, The Ohio State University

10:00 – 11:00 am  The Role of the Turfgrass Manager  
David Stetler, The Ohio State University

11:00 am – 12:00 pm  World Class Turfgrass Professionals  
Joe Becovitz, Office of the Indiana State Chemist

12:00 – 1:00 pm  Lunch

1:00 – 2:00 pm  What Can You Do with a Turfgrass Degree?  
David Stetler, The Ohio State University
FRIDAY'S SPECIAL EVENTS

Trade Show Open: 9:00 am – 1:00 pm
Refreshments available in the new IGE trade show lounge!

INLA Scholarship Silent Auction:
9:00 am – 12:00 pm, Convention Center
All proceeds benefit the INLA Scholarship Fund (INEF).

<table>
<thead>
<tr>
<th>LANDSCAPE DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 – 10:00 am</td>
</tr>
<tr>
<td>The Design Puzzle: Landscape and Garden Design, Three Pieces, C.O.B.</td>
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<tr>
<td>Greg Pierceall, Purdue University, Professor Emeritus</td>
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<tr>
<td>10:00 – 11:00 am</td>
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<tr>
<td>Urban Design With Ecology in Mind: The Second Chapter</td>
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<tr>
<td>David Barbarash, Purdue University</td>
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<tr>
<td>11:00 am – 12:00 pm</td>
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<tr>
<td>Design Local: Inspiration from Indiana</td>
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<tr>
<td>Sean Rotar, Purdue University</td>
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<tr>
<td>12:00 – 1:00 pm</td>
</tr>
<tr>
<td>Lunch</td>
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<tr>
<td>1:00 – 2:00 pm</td>
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<tr>
<td>Storm Water Design</td>
</tr>
<tr>
<td>Drew Bender, Cardno JFNew</td>
</tr>
<tr>
<td>2:00 – 3:00 pm</td>
</tr>
<tr>
<td>Back to the Future: The Importance and Methods of Preserving Historical Landscapes</td>
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<tr>
<td>Robert Baas, Ball State University</td>
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</table>

FRIDAY JANUARY 10

<table>
<thead>
<tr>
<th>LAWN CARE</th>
<th>NORTHERN GOLF</th>
<th>SOUTHERN GOLF</th>
<th>SPORTS TURF</th>
<th>PLANT MATERIALS</th>
<th>INSTALLATION/MAINTENANCE</th>
<th>LANDSCAPE DESIGN</th>
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<tbody>
<tr>
<td>Trade Show Hours</td>
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<tr>
<td>8:00–8:30 am</td>
<td>Maximizing Your Insect Control &amp; Minimizing Costs!</td>
<td>Nematodes – Everything You Wanted to Know</td>
<td>Zoysia Grass Research at Purdue University</td>
<td>Sports Turf Research focusing on Athlete Safety &amp; Performance</td>
<td>Plants for Storm Water Plantings</td>
<td>Glyphosate Effects on Woody Plants</td>
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<tr>
<td>8:30–9:00 am</td>
<td>Become Mobile and App-licit</td>
<td>Insect Update</td>
<td>Considering Bermudagrass – Cultivar Selection and Management</td>
<td>Billbugs, Grubs and Ants Management Strategies</td>
<td>Installing and Troubleshooting Landscape Lighting</td>
<td>The Design Puzzle: Landscape and Garden Design, Three Pieces, C.O.B.</td>
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<td>9:00–9:30 am</td>
<td>Reel After Mowing Appearance</td>
<td>Foliar Fertilization – What Happens to Soil Nutrients?</td>
<td>Great Perennials for Great Landscapes</td>
<td>Managing Calico Scale: A Surging Pest of Indiana</td>
<td>Design Local: Inspiration from Indiana</td>
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<td>9:30–10:00 am</td>
<td>Update from the Indiana State Chemist’s Office</td>
<td>Creeping Bentgrass Management Under Heat Stress</td>
<td>Urban Design With Ecology in Mind: The Second Chapter</td>
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<tr>
<td>10:30–11:00 am</td>
<td>Postemergence Herbicides</td>
<td>Turf Detective: Solve Turf Mysteries</td>
<td>Update/Indiana State Chemist’s Office</td>
<td>Bermudagrass and Zoysia Grass Fertilization</td>
<td>Selecting, Purchasing, and Maintaining Synthetic Turf</td>
<td>What Do Trees Think About Pruning? Response and Recovery</td>
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<td>11:00–11:30 am</td>
<td>Storm Water Design</td>
<td>How Turf Selection Influences Mowing</td>
<td>USGA Green Section, North Central, Year in Review</td>
<td>Indiana Chapter of the STMA – Business Meeting</td>
<td>Super Succulents</td>
<td>Importance and Methods of Preserving Historical Landscapes</td>
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Exhibitors

AAT Direct Solutions ......................... 219-313-5545
Advanced Turf Solutions ................. 317-842-1088
AgFuel Energy Systems ..................... 417-440-2091
Aquatic Control, Inc ......................... 812-497-2410
Automatic Irrigation Supply .............. 317-842-3123
Bailey Nurseries, Inc ......................... 573-910-3266
BASF .............................................. 937-431-3318
Bay ............................................... 630-215-6110
Belgard Hardscapes ......................... 317-787-3201
BFG Supply Company ....................... 440-498-8337
Biodyne Midwest ............................... 260-414-5902
Blue Grass Farms .............................. 765-649-1012
Brehob Nursery, Inc ......................... 317-783-3233
C.M. Hobbs, Inc ............................... 317-837-8301
Cardno JFNew .................................. 574-586-2412
Caudill Seed Co. .............................. 502-431-8202
CISCO Companies, The .................... 317-357-7013
CountryMark ..................................... 317-238-8218
Dow AgroSciences ............................ 317-727-2241
Drainage Solutions, Inc ..................... 317-346-4110
Eason Horticultural Resources .......... 859-578-3555
Eby’s Evergreen Plantation, Inc ....... 574-848-4520
Everss ............................................. 513-300-0033
Eo1 .................................................. 317-750-7384
Forest Commodities, Inc ................. 765-349-3291
Forrest Keeling Nursery .................... 573-895-9571
GrassMasters Sod Farm ..................... 812-779-5468
Greencycle ..................................... 317-773-3350
Grendell Mulch & Mix ...................... 317-996-2826
Greenleaf Nursery ............................ 800-331-2982
Grigg Brothers ................................ 260-450-4772
Harrell’s LLC .................................. 863-687-2774
Heartland Growers ......................... 317-896-9355
Horttech, Inc .................................. 616-842-1392
Indiana 811 ....................................... 317-893-1404
Indiana DNR, Div. of Entomology ................................. 317-232-4123
Indiana Flower & Patio Show ............. 317-576-9393
Indiana Mulch & Stone LLC .............. 317-638-8334
Indiana Nursery & Landscape Association ........................................... 317-889-2382
IPLLA ............................................. 317-575-9010
J. Frank Schmidt & Son ..................... 800-825-8202
John Deere Landscapes .................... 317-535-7891
Kankakee Nursery Co ...................... 815-937-9358
Kenney Machinery Corp .................... 317-872-4793
Knox Fertilizer Company .................. 219-871-4076
Kuert Supply Center ......................... 574-232-9911
L.T. Rich Products ............................ 765-482-2040
La Crosse Forage & Turf Seed .......... 765-557-4545
LaPorte County Nursery ................... 219-785-2891
Lastec .......................................... 317-892-4444
Lebanon Fertilizer and Seed .......... 517-339-1987
Links Aeration Plus ......................... 317-627-4368
Locke De-Icing Solutions ................. 317-443-3527
MacAllister Machinery Co ............... 317-788-4624
Midwest Golf & Turf ....................... 765-461-9026
Midwest Groundcovers .................... 847-742-1790
Midwest Regional Turf Foundation ..... 765-494-8039
Millcreek Gardens LLC .................... 740-666-7125
MJ Schuetz Insurance Services ........ 317-639-5679
Mower Shop, The ............................. 317-849-9500
National Nursery Products .............. 317-652-5927
Natural Stone and Tile .................... 317-863-5926
NewPro Containers ......................... 317-733-8499
Northland Farms ............................ 616-846-1477
Perennials Plus ............................... 317-867-5514
Price Nurseries .............................. 574-936-4459
Professional Golfcar ....................... 812-322-5168
Purdue Extension – The Education Store ........................................ 765-496-6398
Reading Rock, Inc ......................... 317-417-6027
Residex LLC .................................. 248-881-2411
Reynolds Farm Equipment ............... 317-757-9766
SePro Corporation ......................... 317-580-8282
Shade Trees Unlimited, Inc .......... 260-248-2733
SpinalCare ...................................... 317-272-4100
Studebaker Nurseries ..................... 937-405-5588
Syngenta ...................................... 317-431-3318
Tenbarge Seed & Turfgrass Supplies ............. 812-768-6157
Tiffany Lawn & Garden .................... 317-654-5105
Turf Fuel ....................................... 248-881-2411
Twixwood Nursery, LLC ................. 269-471-7408
Unilock ........................................... 630-892-9191
Vine & Branch .................................. 317-846-3778
Wehrkamp Enterprises ................. 419-678-8666
Wolf Creek Company ...................... 937-470-2799
Woody Warehouse Nursery .......... 317-994-5487

Sponsors – we thank you!

Corporate Sponsor
Blue Grass Farms
Farms of Indiana

Signage Sponsor
Brehob Nursery, Inc.

IGE Thanks The Engledow Group for the Trade Show Lounge furnishings.

Conference Hotel

Hyatt Regency Hotel
One S. Capital Avenue
Indianapolis, IN 46204
1-800-233-1234 or 317-632-1234

- Rate: $105 Single / Double plus estimated taxes of 17%
- Reservation Deadline: 12/10/13
- Ask for “Indiana Green Expo”

Parking

- Street Meters are available up to 2 hours for $2. Meters now take credit cards, however they have new restrictions.

- Or visit the following websites for downtown parking maps. Parking prices vary from $10 to $26 per day. Websites: www.visitindy.com or www.icclos.com

Trade Show Schedule

SET UP
Wednesday, January 8
10:00 am – 5:00 pm
Late arrivals must register with IGE office (317-889-2382) prior to move in.

Thursday, January 9
7:00 am – 9:00 am

SHOW HOURS
Thursday, January 9
10:00 am – 5:00 pm

Friday, January 10
9:00 am – 1:00 pm

REGISTER TODAY! Visit wwwIndianaGreenExpo.com
Please complete the items below by typing or printing neatly.

Company: ____________________________________________________________

Address: ____________________________________________________________

City__________________________State_________Zip Code_________________

Phone__________________Fax__________________

Membership (check all that apply): □ INLA □ MRTF □ None

Pre-registration deadline: December 20, 2013

Must be postmarked by this date to receive reduced rates.

Rates after 12/20/13: Members: $130 / Nonmember: $170

Full Registration

<table>
<thead>
<tr>
<th>Attendee Name</th>
<th>1-Day Registration</th>
<th>Trade Show Only</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
<td>Both days of education plus Show</td>
<td>One-day Educ. &amp; Show. Mark day.</td>
<td>Both days of Show only</td>
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<td>Nonmember</td>
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<tr>
<td>1. Email:</td>
<td>$99</td>
<td>$139</td>
<td>$5</td>
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<td>2. Email:</td>
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<tr>
<td>5. Email:</td>
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<td>$139</td>
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Additional Costs:

Workshop A: Turf 101 (Wed. am) $60 $90
Workshop B: Everything Water (Wed. am) $60 $90
Workshop C: CLT Review & Exam (Wed. am)* $20 $40
Workshop D: Building Pondless Water Features (Wed. am) $60 $90
Workshop E: Pesticide Applicator Training & Exam (Wed. am & pm) $315 (ICPI Member $280) $350
Workshop F: ICPI Concrete Paver Installer Course (Jan 8 & 9)
NOTE: Price changed as of 12/6/13 and special pricing for ICPI members.
Workshop G: Turf/Landscape Weed ID & Control (Wed. pm) $60 $90
Workshop H: Mgmt. Strategies for Putting Greens (Wed. pm) $60 $90
Workshop I: IAH Review & Exam (Wed. pm)* $20 $40
Workshop J: Tier 4 Diesel Engine Emissions Technology (Thu. am) FREE FREE
Workshop K: NCMA - SRW Installer Course (Fri. am & pm) $200 $250
Lunch at Thursday’s Trade Show (save $5 now – $15 on site) $10 $10
INLA Reception (Thu., 5:00 pm, Convention Center) FREE FREE
MRTF Reception (Thu., 5:00 pm, Convention Center) FREE FREE

INLA/MRTF Membership

Complete application on back of this page

Total Amount Due $  

Make checks payable to Indiana Green Expo or: □ MasterCard □ Visa □ Discover

Card Number__________________________________ Expires __________ 3 digit security code ________

Billing Address ____________________________________________________________________________

City: ________________________________________ State ___________ Zip ________________________

Authorized Signature ____________________________________________________________

REGISTRATION ALSO AVAILABLE AT: www.IndianaGreenExpo.com

Office Use:
Date Rcvd: ____________________________ Check/PO#: ________________
S Amt.: ____________________________

* Contact INLA office for certification program registrations at an additional cost – 800-443-7336.
Membership

Not a member? Become one now! Here’s an opportunity to get member pricing for the Indiana Green Expo by joining one of these organizations. Simply fill out the appropriate section for the INLA or MRTF and include it with your program registration payment.

Add your membership fee to the registration form on the other side.
Include this application along with payment and your completed Indiana Green Expo registration form to:
Indiana Green Expo, PO Box 2285, West Lafayette, IN 47996-2285

INDIANA NURSERY AND LANDSCAPE ASSOCIATION (INLA) MEMBERSHIP

Active Member: Any individual, partnership or corporation engaged in a business or profession closely allied to the nursery industry or who is actively engaged in a wholesale/retail nursery business or actively engaged in a landscape/maintenance business who majority of business is nursery related within the state of Indiana.

Associate Member: Any individual, partnership or corporation engaged in a business or profession closely allied to the nursery industry or any individual, partnership or corporation based outside the state of Indiana who is engaged in the nursery industry.

Affiliate Member: Any individual who is not directly engaged in the nursery industry but who holds a position in education, research, literature, public office or civil service or community group engaged in horticulture activities or any retired active members.

Active Member Schedule of Dues (Based on the volume of business done in the previous year.)
Class A: $1,000,000 plus $340.00
Class B: $500,000 to $1,000,000 $275.00
Class C: $250,000 to $500,000 $210.00
Class D: $0 to $250,000 $175.00

Associate Member $175.00
Affiliate Member $55.00

To download the complete application visit www.inla1.org or contact them at:
Indiana Nursery and Landscape Association
7915 S. Emerson Ave., #247, Indianapolis, IN 46237
Ph: 800-443-7336

MIDWEST REGIONAL TURF FOUNDATION (MRTF) MEMBERSHIP

MRTF is a 501(C)3 non-profit committed to the support of turfgrass research and education at Purdue University for the betterment of the turf industry in Indiana, the Midwest, and the nation. Sign up my company for:
MRTF Membership $125

To download the complete application, visit www.mrtf.org or contact MRTF at:
Midwest Regional Turf Foundation
PO Box 2285, West Lafayette, IN 47996
Ph: 765-494-8039

Please complete the following and PRINT CLEARLY.
For more than one new member, please make copies of this form.

Name ____________________________________________________________
Company __________________________________________________________
Address __________________________________________________________
City ______________________________________________________________
State ____________________________________________________________
Zip ______________________________________________________________
Phone (_____ ) __________________________
Fax (_____ ) ______________________________
Email ____________________________________________________________
Amount enclosed $___________

Education Credits

All programs are eligible for Indiana Accredited Horticulturist (IAH) and Landscape Industry Certified (CLT-E) continuing education units (CEUs).

Other continuing education units requested from this program include:
• Golf Course Superintendents Association of America (GCSSA)
• Interlocking Concrete Pavement Institute (ICPI)
• National Concrete Masonry Association (NCMA)
• American Society of Landscape Architects (ASLA)
• Master Gardener
• Pesticide Recertification Credits for Michigan, Ohio, and Kentucky can be made available by advanced request. Call 765-494-8039.

Show schedule presented in this brochure is subject to minor changes prior to show. Any changes will be posted on www.IndianaGreenExpo.com

Total CCH’s requested from the Office of the Indiana State Chemist

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<th>Sessions Attended</th>
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* CCH totals include attendance at the Opening Session from 8:00-10:15 am on Thursday, January 9, 2014
Advertise in the Indiana Green Expo Show Program

Get noticed at the trade show and all year round with an ad in the Indiana Green Expo show program. Attendees frequently use the show program throughout the year as a buyer’s guide.

Reasonably-priced color and black/white ad options available.

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* full-page ads only

To reserve your ad space in the Indiana Green Expo show program, visit www.indianagreenexpo.com and download an ad contract or call Mary Breidenbach at 317-205-9635 or email mary@ecumulus.com.

Landscape Challenge!
Benefits the INLA Scholarship Fund!

Guidelines and Registration Form

Questions? Contact dsheets@inla1.org
Entry form due December 3

• LIMITED to the first 3 teams that register.
• Each team consists of up to 5 individuals and will pay a registration fee of $250. All proceeds go to fund green industry scholarships. (We have one team already signed up.)
• Contest is open to INLA & MRTF members.
• Each team will have the same amount of space to complete the Challenge. Contest space is limited to 300 sq. ft. (15’ x 20’ area)—finished landscapes that exceed 300 sq. ft. will be disqualified.
• Each team will receive the same amount of hardscape, green goods, and other landscape materials placed in/near their designated area. Teams will not be able to see these materials until the Challenge begins.
• Each team is allowed to bring a feature item which MUST fit in a single wheelbarrow (Maximum size wheelbarrow – 8 cubic feet) single trip only. Water features must be displayed dry. No water, ice or propane is allowed in the space.
• Each team must bring their tools and miscellaneous construction supplies. Construction supplies and tools cannot be used as elements in the landscape. Battery-powered hand tools can be used. No electric or gas equipment can be used. NO MACHINERY
• We plan to introduce all teams on the first day of the 2014 Indiana Green Expo prior to the Build to be held on Thursday, January 9 beginning at 10:15 am.
• The Challenge begins on Thursday, January 9 at 10:30 a.m. when the Trade Show opens. Landscapes must be complete by 2:30 p.m. on Thursday.
• Voting takes place on Thursday, January 9 from 2:30 p.m. – 5:00 p.m.
• The winner of the Landscape Challenge is decided by popular vote of the IGE attendees. The winning team will receive a cash award of $500 and the honor of carrying the title of “Masters of the 2014 Landscape Challenge.”

Entry Fee of $250 must accompany this Registration Form. Please make checks payable to INLA and mail to 7915 S. Emerson Ave., Ste 247, Indianapolis, IN 46237.

Landscape Challenge Team Registration Form (due 12/3/13)

Team Name ________________________________
Name of Team Captain ________________________________
Cell Phone and Email of Team Captain ________________________________
Names of Team Members (up to 5)
1) ________________________________
2) ________________________________
3) ________________________________
4) ________________________________
5) ________________________________

www.indianagreenexpo.com
January 8–10, 2014
Indiana Convention Center, Indianapolis, IN

Who Should Attend?

- Business Leaders
- Garden Centers
- Landscape Management Companies
- Golf Course Superintendents
- Turf Managers
- Grounds Managers
- Lawn Care Professionals
- Arborists
- Landscape Architects
- Designers
- Wholesale Growers
- Greenhouse Growers
- Educators
- Turf Producers
- Extension Agents
- College & High School Students Interested in the Green Industry
- Master Gardeners
- Garden Clubs
- Pesticide Applicators
- Government Agencies

REGISTER BY DECEMBER 20 AND SAVE!

IndianaGreenExpo.com