

**THE NEW JERSEY SHADE TREE FEDERATION**  
**98<sup>TH</sup> ANNUAL CONFERENCE**

OCTOBER 26-27, 2023 | DOUBLETREE BY HILTON | CHERRY HILL, NJ



# WELCOME TO THE NEW JERSEY SHADE TREE FEDERATION 98<sup>TH</sup> ANNUAL CONFERENCE!

Hello Tree People!

Welcome to the New Jersey Shade Tree Federation's 98<sup>th</sup> Annual Conference! On behalf of the Federation's Executive Director Richard Wolowicz, Membership Outreach Coordinator Emily Farschon, and Board of Directors, I want to thank you for joining us. This year we have excellent speakers, exhibitors, and networking opportunities, so please take advantage of all this conference has to offer!

This was an exciting year for the Federation. Our Membership Outreach Coordinator Emily is now a full-time Federation employee, and she and Rich have been working tirelessly on improvements to the Federation's website, newsletter, mailing and contact lists, in addition to planning this incredible conference. Please say hello to Rich and Emily and tell them what a great job they are doing!

We also continued our virtual forum, "Tree Talk", where we invite you, our membership, to join us via Zoom to discuss topics important to you and your local tree programs. This year's "Tree Talks" hosted some great discussions, with topics centered around planning for tree planting, community outreach and engagement, and ordinance establishment. We also used "Tree Talk" to gather topic and speaker ideas for this conference, so hopefully you will recognize your suggestions in the following presentations. If you haven't joined us for "Tree Talk" yet, you are missing out! It is a great way to network with fellow shade tree people. Stay subscribed to the Federation member email list and keep an eye out for the next "Tree Talk" Zoom link to join us December 6<sup>th</sup>, 7:00-8:30pm.

As for the conference, there are exciting new features! We are holding a "Meet & Mingle" networking event in the Conference Exhibit Hall, Thursday October 26<sup>th</sup>, after the education sessions end. The Meet & Mingle has no entry fee! All are welcome to take full advantage of this excellent opportunity to mingle with speakers, sponsors, exhibitors, and fellow attendees. Through the informal sharing of insights and ideas, we can help each other convert what we learned over the course of the day into actionable ideas for our hometown programs. Please join us Thursday, from 4:30 to 6:00pm, for the new Meet & Mingle!

Also new on Friday October 27<sup>th</sup> in addition to the general education sessions, municipal, and LTE/LTCO tracks, we have a full day Spanish language track. It is our hope that this new track will make our conference more accessible for all the tree people working in New Jersey. With both Spanish and Spanish/English bilingual presentations planned, everyone is welcome to participate!

So, Welcome! ¡Bienvenido!

Visit with old friends, make new ones, learn, share knowledge, and enjoy the conference!

Most sincerely,

Pam Zipse  
Board President 2022-2023  
New Jersey Shade Tree Federation

New to social media! @njshadetreefederation



# THE NEW JERSEY SHADE TREE FEDERATION

A non-profit organization that has been assisting individuals and agencies entrusted with the selection, planting, and care of trees, since 1926.

Our objective is to continually educate our profession and establish relationships between allied associations, federal, state, and municipal levels of government, and businesses who work with trees in order to provide tree-lined streets for future generations.

## EXECUTIVE OFFICERS

President: Pam Zipse  
Vice President: Neil Hendrickson

## FEDERATION STAFF

Executive Director: Richard Wolowicz  
Outreach Coordinator: Emily Farschon

## BOARD OF DIRECTORS

<b>Barbara Ronca</b> <i>Bridgewater Township</i>	<b>Liz Stewart</b> <i>River Edge Shade Tree Comm.</i>	<b>Mary Charlotte Gitlin</b> <i>NYC Parks &amp; Recreation Dept.</i>
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# THE SHADE TREE

A BI-MONTHLY BULLETIN DEVOTED TO NEW JERSEY'S SHADE TREES

*This Issue Presents...* If this heading looks familiar, we are glad you have been enjoying a treasured tradition of our organization. The first issue of The Shade Tree was dated April 1928, which means hundreds of thousands of copies have been sent out into the world since the bulletin's inception.

This year we asked members to opt for paper or digital copies of our newsletter and are pleased to report that The Shade Tree is going strong with an overwhelming majority of readers now requesting digital copies.

SCAN TO READ THE  
LATEST ISSUE



Paper is a renewal and recyclable resource, so we are more than happy to keep printing! But it is our responsibility to ensure that the paper we do use goes into the hands of appreciative people.

Thank you for your help, and happy reading to the screen scrollers and page flippers alike!

# SCHEDULE THURSDAY, OCT 26<sup>TH</sup>

8:00-8:30 Registration & Morning Coffee with Exhibitors

8:30-9:00 **Opening Program** – NJSTF President Pam Zipse & NJ State Forester Todd Wyckoff

## GENERAL EDUCATION SESSION - Grand Ballroom

## NJUCF CORE TRAINING -Crystal Ballroom

9:00-10:00 **How to Read a Tree**  
*Dr. Jason Grabosky, Rutgers Urban Forestry Program*

**NJUCF Community Representative Training-**  
*reserved seating only*

10:00-10:30 Coffee Break with Exhibitors

10:30-11:30 **Trees Do Not Read Textbooks: Woody Stories of Black Swans, Persistence, and Great Longevity**  
*Dr. Neil Pederson, Harvard Forest*

**NJUCF Core Training-**  
*continued*

11:30-1:00 Luncheon with Exhibitors & NJ Shade Tree Federation Awards Presentations

1:00-2:00 **Badass Trees for Piss Poor Places**  
*Scott Beuerlein, Cincinnati Zoo & Botanical Garden*

**NJUCF Core Training-**  
*continued*

2:00-2:30 Coffee Break with Exhibitors

## MUNICIPAL TRACK - Grand Ballroom

## LTE/LTCO TRACK -Terrace Room

## NJUCF CORE TRAINING -Crystal Ballroom

2:30-3:30 **The Role of Trees in Municipal Stormwater Management**  
*Dr. Christopher Obropta, Rutgers Water Resources Program Representative, NJ DEP Municipal Stormwater Regulation Moderator: Mary Charlotte Gitlin*

**Pesticide Regulatory and Safety Update: Storage and Spills**  
*Patricia D. Hastings, NJ Extension Pesticide Safety Education Program Coordinator*

**NJUCF CORE Training -**  
*continued*

3:30-4:30 **Designing Effective Tree Ordinances**  
*Alex Hancock, Plant Geo*

**2023 Dead Tree Review: The View from Rutgers Plant Diagnostic Lab**  
*Dr. Richard Buckley, Rutgers Plant Diagnostic Lab*

**NJUCF Core Training-**  
*continued*

4:30-6:00 **MEET & MINGLE NETWORKING HOUR - NEW FOR 2023!**  
Join us in the Exhibit Hall. We'll snack, sip and chat with fellow attendees, speakers, and exhibitors in this fun, unstructured gathering, before parting ways to make our own dinner arrangements. All Thursday conference registrants may participate with no additional entry fee.

# SCHEDULE FRIDAY, OCT 27<sup>TH</sup>

8:00-8:30 Registration & Morning Coffee with Exhibitors

8:30-9:00 **Opening Program** – NJ Shade Tree Federation Vice President Neil Hendrickson

## GENERAL EDUCATION SESSION

-Grand Ballroom

## CURSO EN ESPAÑOL

-Crystal Ballroom

9:00-10:00 **Smart Tree Planting**  
*Pam Zipse, NJ Tree Foundation*

**Conceptos Básicos Sobre Pesticidas, Parte I**  
*Pedro Perdomo*

10:00-10:30 Coffee Break with Exhibitors | Pausa para el café en la Sala de Exposiciones

10:30-11:30 **Old Growth Forests are so Much More Than Big Trees**  
*Dr. Neil Pederson, Harvard Forest*

**Conceptos Básicos Sobre Pesticidas, Parte II**  
*Pedro Perdomo*

11:30-1:00 Luncheon with Exhibitors & NJUCF Awards Presentations | Almuerzo con Expositores

## MUNICIPAL TRACK

-Grand Ballroom

## LTE/LTCO TRACK

-Terrace Room

## CURSO EN ESPAÑOL

-Crystal Ballroom

1:00-2:00 **NJ Urban & Community Forestry Program (NJUCF) Community Forestry Plan (CFMP) Guidelines**  
*Brian McDonald, NJ Forest Service*

**Soil Health and Carbon Sequestration for Ecosystem Health**  
*Dr. Stephanie Murphy  
Rutgers Soil Testing Laboratory*

**Plantación Adecuada De Árboles - Proper Tree Planting**  
*Lisa Simms, Green Streets, NJ Tree Foundation  
Dr. Raul I. Cabrera, RAREC*

2:00-2:30 Coffee Break with Exhibitors | Pausa para el café en la Sala de Exposiciones

2:30-3:30 **Municipal Case Studies**  
*Paul Novello, Twp of Howell  
Chris Schorr, Friends of Madison Shade Trees  
Liz Stewart, River Edge  
John Linson, The Shade Tree Dept*

**Making Landscapes That Matter**  
*Scott Beuerlein, Cincinnati Zoo & Botanical Gardens*

**Poda De Árboles Jóvenes Para Un Futuro Adecuado - Pruning Young Trees for Proper Future**  
*Gary Lovallo, Chestnut Arboricultural & Forestry Services LLC.  
Henry Navarro, HN Tree Care LLC.*

3:30-4:30 **NJ Urban & Community Forestry Panel of Success Stories and Review**  
*Multi-Speaker Session*

**Diagnostics for Dummies**  
*Mark Ware, Rainbow Ecoscience*

**Gestión Integrada De Plagas En Árboles Y Arbustos**  
*Erika Cherry, Shamrock Pesticide Training*

# CONFERENCE PROGRAM THURSDAY, OCT 26<sup>TH</sup>

## HOW TO READ A TREE – Dr. Jason Grabosky, Rutgers Urban Forestry Program

9:00-10:00am | General Session | Grand Ballroom

“Reading a tree” is shorthand for organized observation for the purpose of explaining or rationalizing some action or reaction. There is no “one correct way” of completing this process. This presentation will outline some organizational considerations. We all do this on some level to better understand the specific landscape tree before crafting the best questions or available responses within industry standards and best management practices. So, it is worth taking a moment to consider this step in a way applicable to the volunteer and the professional alike. Grabosky will divide the tree into health observation then structure. The presentation will emphasize the observation of health/condition with ties to the mechanical since our management tools assume the ability of the tree to have a longevity to provide benefits for the management investment, or lack thereof, when proposing a specific tree management or community forest management response.

**Dr. Jason Grabosky** is a professor within the Ecology, Evolution and Natural Resources program at Rutgers School of Environmental and Biological Sciences // NJ Agricultural Experiment Station. He serves as the John and Eleanor Kuser Endowed Faculty Scholar in Urban and Community Forestry and has been with Rutgers since 2002. He was previously faculty at University of Florida and at Cornell University, where he also did his graduate work. Prior to all of that, he worked in the landscape and nursery industry going back to the very early 1980s. Having maintained those older industry connections, there are still people who knew Dr Grabosky when he still had hair, with only a few in this room who knew Jason in the late 80s, early 1990s after his great follicle exodus. He teaches classes and maintains research efforts broadly defined as within tree biology, tree care, soil management, and forestry-wildlife within developed spaces...excepting when it is about something else.

## TREES DO NOT READ TEXTBOOKS: WOODY STORIES OF BLACK SWANS, PERSISTENCE, AND GREAT LONGEVITY – Dr. Neil Pederson, Harvard Forest

10:30-11:30am | General Session | Grand Ballroom

We are told many stories in our lives. The Moon is made of cheese, for example. Observations, experiments, and studies shows that some of these stories are not based on the best data. The Moon is not, apparently, made of cheese. Since my first classes and some of my last classes on trees and forests, I have learned similar lessons. No, not that the Moon is not made of cheese. More, I have learned that trees and, ultimately, forests do not live and change in ways I was taught in years ago. Many Moons have passed as I have learned from the rings of trees. We have learned that climatic extremes impact our forests in ways I was not fully able to imagine. We have learned that broad generalizations of various species do not fully hold true, particularly in conditions that they can tolerate or in how long they can live. During this talk I will give a range of examples supporting the contention that trees do not read textbooks.

**Dr. Neil Pederson** is a forest ecologist at the Harvard Forest studying the dynamics of old-growth forests from individual trees to regional and subcontinental scale. Neil grew up in rural Volney, NY and in the Adirondack Mountains and earned an associate’s degree at SUNY-Morrisville, a bachelor’s degree at SUNY-

## CONFERENCE PROGRAM THURSDAY, OCT 26<sup>TH</sup>

-ESF, a MS at Auburn University, and a PhD at Columbia University. Before working at the Harvard Forest, Neil was an assistant professor in biology at Eastern Kentucky University and a research professor at Lamont Doherty Earth Observatory. Neil has studied climate change and disturbance ecology in Mongolia, parts of the Middle East Bhutan, Spain, China, and over much of the eastern US. Currently, Neil has grants with the National Science Foundation and US Forest Service to study the impacts of extreme climate on the lives of trees in the Northeastern US and how climate might have shaped the old-growth forests we love today.

### **BADASS TREES FOR PISS POOR PLACES – Scott Beuerlein, Cincinnati Zoo & Botanical Garden**

1:00-2:00pm | General Session | Grand Ballroom

The trees in this talk are survivors. They laugh at incorrect planting technique, scoff at mulch volcanoes, mock bad pruning cuts, and smirk at poor maintenance practices. They ask for poor soil. They taunt droughts. Sure, some of the usual suspects, but also a bunch you probably don't know or didn't realize. But this is not just a typical "list of trees" talk. Some of the suggested trees will prompt siderail conversations into various long-held and sacred tree planting concepts and might just challenge a few of them.

**Scott Beuerlein** is the Manager of Botanical Garden Outreach at the Cincinnati Zoo & Botanical Garden. He runs the Zoo's Botanical Garden educational programs, including three yearly symposiums. He is involved in most of the department's other outreach and with the plant trialing and the pollinator programs. Scott is also a garden writer and horticultural speaker. He has published hundreds of articles and columns in several gardening and green industry publications. He currently pens two columns in each issue of Horticulture Magazine—the (usually, hopefully!) humorous Deep Roots column and the Green Views series of interviews. Scott is a partner in the long running and highly respected Garden Rant blogsite and posts about twice a month, including a spirited and sometimes passive-aggressive sparring of wits with garden writer Marianne Wilburn in a series of letters. Scott is a 1982 graduate of Xavier University, earning a B.A. in Communication Arts. He is an ONLA Certified Landscape Technician and an ISA Certified Arborist.

### **THE ROLE OF TREES IN MUNICIPAL STORMWATER MANAGEMENT – Multi-Speaker Session**

2:30-3:30pm | Municipal Track | Grand Ballroom

Trees provide social, economic, and ecological benefits. This multi-speaker, interactive session explores how trees function as stormwater interceptors and their usefulness as municipal stormwater management tools. We'll learn the latest on how green infrastructure is changing the designs of our cities to capture runoff more efficiently and learn the importance of municipal stormwater management in NJ. The new regulations for municipal separate storm sewers systems (MS4) Tier A permits in NJ require adoption and enforcement of an ordinance to control tree removal and replacement to reduce stormwater runoff and pollutants, and to promote infiltration of rainwater into the soil. With the due date on this requirement rapidly approaching at the end of this year (12 months after the Effect Date of Permit Authorization 01/01/2023), it's important for us to understand how the management of trees and water are intertwined in our NJ municipalities.

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**Dr. Christopher Obropta** is the Extension Specialist in Water Resources with Rutgers Cooperative Extension, and he is a Professor with the Department of Environmental Sciences at the School of Environmental & Biological Sciences, Rutgers University. He has a doctorate in Civil Engineering from Stevens Institute of Technology, an M.S. in Civil Engineering from New Jersey Institute of Technology, and a B.S. in Civil Engineering from New Jersey Institute of Technology. Prior to joining Rutgers, Dr. Obropta was an environmental consultant for 12 years at Omni Environmental Corporation. Dr. Obropta has a background in watershed management, water quality modeling, hydrologic and hydraulic modeling, and coastal engineering. His specific experience includes watershed restoration, onsite wastewater treatment system design and management, wasteload allocations and TMDL studies, stormwater management, wetland design, effluent dilution analyses, longshore sediment transport, computer-aided design, and geographic information systems (GIS). He teaches Bioresource Engineering Design I & II, where he directs student design teams to develop solutions to complex real-life engineering problems. With his extensive and impressive background Dr. Obropta leads his highly specialized team of professional staff who are determined to create innovative solutions to water quality issues in New Jersey.

**The NJ DEP Municipal Stormwater Regulation Program** was developed in response to the U. S. Environmental Protection Agency's (USEPA) Phase II rules published in December 1999. It is the program's goal to work cooperatively with municipal governments, public complexes, highway agencies and citizens of New Jersey to improve water quality through the control of both stormwater quantity and quality. This goal is accomplished through the issuance and enforcement of three statewide general stormwater permits and continued outreach and support provided by the Department.

**Moderator: Mary Charlotte Gitlin**, Shade Tree Federation Board of Directors

### PESTICIDE REGULATORY AND SAFETY UPDATE: STORAGE AND SPILLS

– Patricia D. Hastings, NJ Extension Pesticide Safety Education Program Coordinator

2:30-3:30pm | LTE/LTCO Track | Terrace Room

Planning to have a pesticide spill is the best strategy to avoid them. Storage area design and security will be covered, as well as inspecting for spills waiting to happen. Tips for choosing spill supplies for your operation, and container management in storage and vehicles will be highlighted. All Commercial and Private pesticide applicators licensed in the state of New Jersey must comply with Department of Environmental Protection (NJDEP) regulations for pesticide storage and spills. The session will cover key topics like "reportable spills"; and storage inventory and annual fire department notification; and information required to be reported to NJDEP when a spill is reportable. All attendees will receive a Rutgers "toolkit" of template forms for licensed applicators to use to meet minimum reporting requirements. This includes annual notification inventory and cover letter; and pre-formatted 'spill report cards'.

**Patricia D. Hastings** is the designated Extension Pesticide Safety Education Program Coordinator (PSEP) for New Jersey, specializing in providing outreach and training to pesticide applicators in federal and state pesticide regulations and issues. As the PSEP, she serves as Rutgers Cooperative Extension's liaison with EPA and NJDEP for federal and New Jersey regulatory issues impacting pesticide applicators. Hastings is a nationally recognized expert in the selection and use of personal protective equipment for pesticides. Her other roles include being Rutgers NJ School IPM Outreach Coordinator and the State Lead for Worker Protection Standard.



# CONFERENCE PROGRAM THURSDAY, OCT 26<sup>TH</sup>

## DESIGNING EFFECTIVE TREE ORDINANCES – Alex Hancock, PlanIT Geo

3:30-4:30pm | Municipal Track | Grand Ballroom

Tree ordinances, codes, and policies are tools you can use to help your urban forest thrive, but are you using them to their greatest capacity? As the State of New Jersey updates stormwater and environmental requirements, municipalities are tasked with assessing their existing tree ordinances to see how they measure up, but this is also a great opportunity for an ordinance tune-up. Alex Hancock, Urban Forestry Consultant at PlanIT Geo, will help unravel the red tap around effective, enforceable tree ordinances. Alex will share her team's approach to updating tree ordinances using industry standards, comparable cities, state requirements, and city goals. Learn more about this proven planning framework for managing ordinance reviews and updates to ensure that urban forest policies created today build towards beneficial outcomes for decades to come.

**Alex Hancock** is an ISA Certified Arborist with a background in urban planning, urban forestry, and sustainability. She is experienced in tree canopy cover analysis, climate action planning, zoning and land use planning, and public policy. At PlanIT Geo, Alex works with the Urban Forestry Consulting Services team to create urban forest management plans, set data-driven canopy goals, write and analyze ordinances, and help communities find urban forestry solutions.

## 2023 DEAD TREE REVIEW: THE VIEW FROM RUTGERS PLANT DIAGNOSTIC LAB

- Dr. Richard Buckley, Rutgers Plant Diagnostic Lab

3:30-4:30pm | LTE/LTCO Track | Terrace Room

This one-hour lecture will focus on new and unusual, or otherwise really cool, diseases and insect pests that pose a threat to New Jersey's urban forest. Updates on current invasions and problems coming our way will be included. Each insect or disease will be profiled to include pathogen or pest biology and ecology, symptom diagnosis, scouting and monitoring techniques, and current concepts in integrated control that includes all cultural, biological, and chemical management strategies.

**Dr. Richard Buckley** is the Director of Rutgers Plant Diagnostic Laboratory. He received his BS in Entomology and Plant Pathology from the University of Delaware and an MS in Turfgrass Pathology from Rutgers University. Mr. Buckley's primary responsibility is as a plant problem solver. In his 31-year career, he has evaluated over 60,000 plant samples requiring disease and insect pest diagnosis. Mr. Buckley is an instructor in the Rutgers Professional Golf Turf Management School. He teaches courses in diseases and insect pests of turfgrass and ornamental plants and has over 3000 former students working in the golf turf industry. He also teaches in several undergraduate and graduate courses in the Department of Pathology and Plant Science at Rutgers University. Richard is also an acclaimed lecturer and invited speaker that has presented over 4000 lectures to green industry professionals. His topics include disease and insect pest problems in turf and ornamentals, plant problem solving and diagnostics, pesticides and pesticide use, and integrated pest management techniques.

# CONFERENCE PROGRAM FRIDAY, OCT 27<sup>TH</sup>

## **SMART TREE PLANTING – Pam Zipse, NJ Tree Foundation**

**9:00-10:00am | General Session | Grand Ballroom**

There is a lot of excitement about planting trees to combat climate change these days...but the trees must survive, and grow, in order to serve this purpose. In this session Pam will share some thoughts and insights from the New Jersey Tree Foundation about planting smart, and not getting caught up in chasing money, but planting at a reasonable and measured pace that will help ensure tree establishment and survival.

**Pam Zipse** is the Executive Director of the New Jersey Tree Foundation, a statewide nonprofit organization dedicated to planting trees in New Jersey's most urban neighborhoods, where the need is greatest. She has a degree in Forest Resource Management from SUNY College of Environmental Science and Forestry and is a NJ Licensed Tree Expert. Pam is also the President of the New Jersey Shade Tree Federation this year and serves on the New Jersey Community Forestry Council.

## **OLD GROWTH FORESTS ARE SO MUCH MORE THAN BIG TREES**

– Dr. Neil Pederson, Harvard Forest

**10:30-11:30am | General Session | Grand Ballroom**

When we envision old-growth forests, we likely imagine big trees that overwhelm our notion of being human. Redwoods or Giant Sequoias likely come to mind. While big trees are fascinating and wondrous, they can be, as some would say, a destination rather than the process of being old growth. Old-growth forests represent time. Time immemorial. An amount of time that us humans, even with our extended lifespans, cannot imagine. What happens over these millennia? We are just starting to learn. Much like I alluded to during my previous talk, old trees are more capable than we would suppose. Trees are not humans. With time and that capability, we are learning that old trees form forests that can not only take in atmospheric carbon, but lock it away for centuries. With this talk I will provide a global tour of some of the oldest forests I have been fortunate to visit and study (Do not always expect big trees). I will then give an overview of what we have learned about tree growth and carbon accumulation.

Read Dr. Neil Pederson's bio on page 5

## **NJ URBAN & COMMUNITY FORESTRY PROGRAM GUIDELINES**

– Brian McDonald, NJUCF Program Coordinator, New Jersey Forest Service

**1:00-2:00pm | Municipal Track | Grand Ballroom**

The New Jersey Urban & Community Forestry (NJUCF) Program will provide an overview of the new Community Forestry Management Plan (CFMP) Guidelines and an outline of new requirements.

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## SOIL HEALTH AND CARBON SEQUESTRATION FOR ECOSYSTEM HEALTH

– Dr. Stephanie Murphy, Rutgers Soil Testing Laboratory

1:00-2:00pm | LTE/LTCO Track | Terrace Room

Soils are the basis for terrestrial ecosystems, supporting the primary producers that provide sustenance to the rest of the ecosystem food web. The diversity, vigor, and resiliency of the ecosystem – whether natural or managed - depends to great extent on the condition of the underlying soils. A major factor in establishing a healthy soil is soil organic matter, and humified soil organic matter is a huge reservoir of sequestered carbon, though one that has been depleted through many human practices. Therefore, management practices that reverse that trend and contribute to building soil organic matter not only promote healthier tree growth and health but also serve to draw down carbon dioxide from the atmosphere. Current research and understanding of soil organic matter dynamics and soil health relationships to sustainable ecosystem management will be discussed, and best management practices for sustainable urban forestry emphasized.

**Dr. Stephanie Murphy** is originally from the suburbs of Cincinnati, OH. She attended The Ohio State University to complete a Bachelor of Science Degree in Agronomy. She earned a Master of Science degree at Purdue University with soil management research conducted at the USDA-Agricultural Research Service's Soil Erosion Laboratory. Following an interest in plant roots' effects on soil structure development that developed during that work, she went to Michigan State University's Department of Crop & Soil Sciences to complete a Ph.D. in Soil Biophysics.

After moving to New Jersey, Dr. Murphy was employed in a series of positions at Rutgers University that expanded her soils experience into soil microbiology and soil analysis. Dr. Murphy has led the Rutgers/NJAES Soil Testing Laboratory for over 25 years. This position includes Cooperative Extension, teaching responsibilities, and participation in various soil research projects which help to support the Soil Testing Lab. Teaching duties have included several undergraduate and graduate courses as well as short courses for Rutgers Continuing Professional Education.

Dr. Murphy has represented the Executive Dean of School of Environmental and Biological Sciences on the NJ Department of Agriculture's (NJDA) State Soil Conservation Committee for many years and has also advised the NJDA-State Ag Development Committee, the NJ Department of Environmental Protection, and the NJ Department of Transportation on soil-related matters. She works cooperatively with Soil Scientists and Soil Conservationists of New Jersey's office of the USDA-Natural Resource Conservation Service.

Dr. Murphy is a member of the American Society of Agronomy, the Soil Science Society of America, the Crops Science Society of America, and the Soil & Water Conservation Society. At Rutgers, she participates in the Center for Turfgrass Science, the Equine Science Center, and the Climate Institute. Dr. Murphy was recently tapped to develop Rutgers/Ag Extension Service's Soil Health initiative.

## MUNICIPAL CASE STUDIES: TREE PROGRAMS – Multi-Speaker Session

2:30-3:30pm | Municipal Track | Grand Ballroom

New Jersey is a Home Rule state. Each town is unique, but we hold enough similarities to make understanding how our neighbors operate helpful. In this session we've invited four speakers from different New Jersey communities to explain key components of their town's successful shade tree programs. In a series of back-to-back mini presentations: Liz Stewart gives us tips and tricks on effectively communicating with residents. Howell explains how their dedicated Tree Fund functions. Chris Schorr dives into how the Friends of Madison Shade Trees operates. And John Linson shows us strategies for successful tree/sidewalk-

## CONFERENCE PROGRAM FRIDAY, OCT 27<sup>TH</sup>

- management. Get your notebook ready because we're sure to walk away with ideas we can use to build and strengthen our hometown shade tree programs.

**Friends of Madison Shade Trees** is a registered non-profit volunteer organization established in 1989. Its purpose from the beginning has been to raise funds through donations and grants which are then used to supplement the work of the Shade Tree Board of Madison in caring for the street and canopy trees of our community. FMST functions also as a source of educational materials and programs about the incomparable value of mature native shade trees to every environment. Chris Schorr, the current chair, succeeded founder Judy Mullins in 2013.

**Liz Stewart** is a NJLTE, Community Arborist, NJSTF Board Member, past vice-president and president of NJSTF, and the current chair of the Borough of River Edge Shade Tree Commission.

**Paul Novello** is the Director of Public Works for Howell Township, NJ

**John Linson** served as Millburn Township Forester for 25 years. Subsequent to his retirement, he has provided urban forestry consultation to over 40 municipalities and three counties. He is a past President of the NJ Shade Tree Federation. He is passionate about trees, fishing, hunting, and classic vehicles. NJ Licensed Tree Expert #198.

### **MAKING LANDSCAPES THAT MATTER – Scott Beuerlein, Cincinnati Zoo & Botanical Gardens**

**2:30-3:30pm | LTE/LTCO TRACK | Terrace Room**

Surprisingly off kilter and frequently funny, this talk wanders off on a rambling journey connecting natural history and human nature with the evolution of gardens and landscapes. From that foundation, it then explores how landscapes, and particularly which elements within them, best fulfill basic human needs, thereby creating beautiful and useful spaces which offer maximum comfort and well-being.

Read Scott Beuerlein's bio on page 6.

### **NJ URBAN & COMMUNITY FORESTRY PANEL OF SUCCESS STORIES AND REVIEW**

– Multi-Speaker Session

**3:30-4:30pm | Municipal Track | Grand Ballroom**

The New Jersey Forest Service has a strong commitment to Urban and Community Forestry and has provided millions of dollars in grants to participating municipalities. In this panel discussion, we will hear from NJ Forest Service Rutgers Interns on work they undertook over the summer. They will provide an overview of previous planting projects and we will hear from those municipalities who will share their thoughts, difficulties, successes, and lessons learned in implementing their grant maintenance programs, from implementing an inventory, pruning, removals, and scheduling. These short presentations followed by time for Q&A with the panel will provide attendees with valuable insights on how to enhance their local community forestry programs.

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**DIAGNOSTICS FOR DUMMIES** – Mark Ware, Rainbow Ecoscience

3:30-4:30pm | LTE/LTCO TRACK | Terrace Room

The process of diagnosing diseases of trees can be very bewildering at times, with many outcomes possible. Which is the right one? Diagnostics is much less intimidating if you follow a systematic process, starting from the soil and the base of the tree and work your way upwards. The branching pattern of the tree itself can provide a model you can use to map out all the information about the diseases of trees local to any area of the world you live and work in. Let's get "back to basics" - reinforce and learn the important practice of diagnosis and why it is so critical when attempting management of tree and shrub health.

**Mark Ware** is a Board Certified Master Arborist on the Rainbow Ecoscience team, covering the Northeast and Mid-Atlantic regions. Mark brings over ten years of practical experience in arboriculture, plant health care and ornamental horticulture. Mark is responsible for providing PHC technical and application training to Rainbow's clients and their crews. This includes providing technical support and training in Rainbow PHC protocols, research and development of new products and protocols and in-field training with applicators.

The New Jersey Shade Tree Federation invites you to

# Meet & Mingle

A Networking Happy Hour with  
Exhibitors & Speakers

**Thursday, Oct 26<sup>th</sup> | 4:30-6:00 pm | Exhibit Hall**

Stick around after the education sessions end to make meaningful connections with fellow attendees, speakers, and exhibitors.

# CURSO EN ESPAÑOL, VIERNES 27 DE OCTUBRE

## CONCEPTOS BÁSICOS SOBRE PESTICIDAS, PARTE I – Pedro Perdomo

9:00-10:00am | Spanish Track | Crystal Room

Las presentaciones del día cubrirán los aspectos básicos de la capacitación sobre pesticidas. En primer lugar, hablaremos brevemente de las leyes que rigen el uso de pesticidas como base para comprender el riesgo y los beneficios de los pesticidas. A continuación, pasaremos a la etiqueta y hablaremos de las diferentes secciones y de la información que se puede obtener de la etiqueta, como el uso de equipos de protección fitosanitaria (PPE) para todo tipo de aplicaciones, incluidas la mezcla, la carga, la fumigación y el almacenamiento. También trataremos sobre dónde conseguir la etiqueta y la SDS para obtener información adicional y saber cuáles son las medidas de primeros auxilios que deben tomarse en caso de derrame o contaminación con el producto pesticida.

**Pedro Perdomo** trabajó para la Universidad de Rutgers durante 10 años como agente del condado, donde fue responsable del apoyo a las industrias de césped y ornamentales. Durante su gestión en Rutgers, ofreció muchos temas en español, incluida la identificación de plantas, el manejo de plagas, el idioma español para jardineros paisajistas y capacitación sobre pesticidas. Durante los últimos 15 años o más, ha trabajado para empresas de fabricación de pesticidas, donde su comprensión de las etiquetas de los pesticidas y sus componentes le ha permitido seguir dictando clases en español que abarcan las leyes de los pesticidas, la manipulación y almacenamiento seguros de pesticidas, y cómo leer una etiqueta.

## CONCEPTOS BÁSICOS SOBRE PESTICIDAS, PARTE II – Pedro Perdomo

10:30-11:30am | Spanish Track | Crystal Room

Continuación de la Parte I. Debe asistir a la Parte I y a la Parte II para recibir créditos por esta clase.  
Continuation of Pesticide Basics Part I. You must attend both Part I and Part II of this class for NJ Pesticide credits.

## PLANTACIÓN ADECUADA DE ÁRBOLES | PROPER TREE PLANTING

– Lisa Simms, NJ Tree Foundation, Dr. Raul I. Cabrera, Rutgers University

1:00-2:00pm | Spanish Track | Crystal Room

La arborización no es un deporte cronometrado. Un poco de cuidado durante la plantación contribuirá en gran medida a la supervivencia del árbol. En esta sesión se tratarán los aspectos básicos de la plantación correcta de árboles para garantizar su supervivencia: encontrar el brote de raíces, plantar a la profundidad adecuada, retirar el envoltorio y regar. Analizaremos por qué esto es importante y cómo hacerlo correctamente. Además, trataremos acerca de la elección de especies de árboles urbanos, el cuidado de los árboles por etapas, los diferentes tipos de árboles para plantar y los accesorios para la plantación de árboles.

**Lisa Simms** dirige el Programa Green Streets de la NJ Tree Foundation, un programa de reincorporación que licita para completar contratos municipales y del condado de plantación de árboles, desarrollo de infraestructuras verdes y mantenimiento. Lisa tiene una Licenciatura en Ciencias Ambientales de la Universidad de Rutgers y cuenta con más de 25 años de experiencia en silvicultura urbana y gestión de organizaciones sin fines de lucro.

## CURSO EN ESPAÑOL, VIERNES 27 DE OCTUBRE

**Dr. Raul I. Cabrera** tiene una Licenciatura en Horticultura de la Universidad Agraria “Antonio Narro” (Saltillo, México), una Maestría en Fisiología Vegetal y un Doctorado en Biología Vegetal de la UC-Davis. Ha sido miembro de la facultad de la Universidad A&M de Texas y de la Universidad de Rutgers, donde actualmente se desempeña como Especialista de Extensión en Viveros y Cultivos Especiales, extendiéndose a las actividades relacionadas con el paisajismo y la arboricultura. Trabaja en fisiología aplicada y gestión de cultivos, con un enfoque en la eficiencia general del uso del agua y los fertilizantes en estos productos básicos de la industria verde. También dicta el curso de grado de Producción de Cultivos de Vivero en Rutgers y da conferencias como invitado en otros cursos.

**Proper Tree Planting:** Tree planting is not a timed sport. A little care while planting will go a long way toward tree survival. This bilingual session will cover the critical basics of proper tree planting to ensure survival - finding the root flare, planting at the proper depth, removing the packaging, and watering. We will discuss why this is important and how to do it properly. In addition, we will cover urban tree species choices, caring for staged trees, the different types of trees to plant, and tree planting accessories

**Lisa Simms** runs the NJ Tree Foundation’s Green Streets Program – a re-entry program which bids to complete municipal & county tree planting, green infrastructure development and maintenance contracts. Lisa has a Bachelor’s Degree in Environmental Science from Rutgers University and 25+ years experience in urban forestry and nonprofit management.

**Dr. Raul I. Cabrera** has a BS in Horticulture from Universidad Agraria “Antonio Narro” (Saltillo, México), and MS in Plant Physiology and PhD in Plant Biology from UC-Davis. He has been a faculty member at Texas A&M University and Rutgers University, where he currently serves as Extension Specialist in Nursery & Specialty Crops, extending to the allied landscape and arboriculture activities. He works on applied crop physiology and management, with a focus on the overall use efficiency of water and fertilizers in these green industry commodities. He also teaches the Nursery Crop Production undergraduate course at Rutgers and does guest lecturing in other courses.

### PODA DE ÁRBOLES JÓVENES PARA UN FUTURO ADECUADO

#### PRUNING YOUNG TREES FOR PROPER FUTURE – Gary Lovallo, Henry Navarro

2:30-3:30pm | Spanish Track | Crystal Room

Esta sesión bilingüe se centrará en los conceptos básicos de la poda estructural, comenzando con algunos términos comunes, anatomía básica, poda de árboles jóvenes para lograr una buena estructura, tipos de poda, reparación de existencias en viveros deficientes mediante recuperación y defectos obvios que se deben evitar. El cómo, cuándo, dónde y porqué de la poda profesional de árboles que sentará las bases para el futuro crecimiento y la seguridad de lo que aprenderá. Esta sesión también proporcionará a los asistentes la información necesaria para realizar el examen LTE y LTCO. TODO ÁRBOL COMIENZA EN EL VIVERO.

**Gary Lovallo** LTE, CF, CA, CTSP, NJAF es Director de Chestnut Arboricultural & Forestry Services LLC., ubicado en Old Bridge, NJ, y trabaja en la industria del cuidado de árboles y como consultor forestal desde 1982. Tiene una licenciatura en Gestión de Recursos Naturales de la Universidad de Rutgers, es experto en árboles con licencia de NJ y Silvicultor aprobado por el estado de NJ, Silvicultor certificado por SAF, arbolista certificado por ISA y profesional certificado en seguridad de árboles, con licencia de aplicador y en el negocio de los pesticidas. Expresidente de la Sociedad de Expertos Certificados en Árboles de NJ y de la Sección de NJ de la Sociedad Internacional de Arboricultura (International Society of Arboriculture, ISA), y

## CURSO EN ESPAÑOL, VIERNES 27 DE OCTUBRE

Representante internacional. Fue nombrado por el Gobernador para la Junta de Expertos en Árboles de NJ y es cofundador y director de capacitación del Comité para el Avance de la Arboricultura. Ha trabajado como silvicultor regional de servicios públicos, superintendente de la Comisión de Árboles de Sombra del Condado y silvicultor consultor para varias comunidades. Ha realizado numerosos estudios sobre árboles peligrosos, ha redactado planes de gestión forestal comunitaria, ha redactado ordenanzas de eliminación de árboles respaldadas por la Corte Suprema de NJ y ha formado parte del grupo de trabajo de NJ para la elaboración de ordenanzas modelo, y ha sido asesor de la Junta de Servicios Públicos de NJ en materia de normas de gestión de la vegetación. Es especialista del grupo de trabajo de la FEMA y ha redactado especificaciones de contratos e informes de conservación de árboles para las Juntas de Ajustes locales. Ha dictado conferencias para ASCLA en Atlantic City, la Sociedad de Expertos Arboricultores Certificados de Nueva Jersey (NJSCTE), NJ Shade Tree Federation y otros seminarios y eventos educativos para arbolistas, publica en la revista TCIA y ha testificado en procedimientos judiciales y legislativos y redactado varios informes relativos a evaluaciones, peligros de los árboles y muertes relacionadas con árboles.

**Henry Navarro** tiene 45-años de edad y residente de Flanders, Nueva Jersey., nacido en Costa Rica (Centroamérica) llegué a los Estados Unidos el 17 de septiembre de 1995 con residencia permanente y me hice ciudadano americano 5 años más tarde. Desde muy pequeño trabajé en el campo con mis tíos, donde aprendí mucho viendo con lo que hacían. Una de mis virtudes es aprender hacer labores con solo observando a otra persona como lo hacen. Soy operador de grúa con licencia de Nueva Jersey, experto en árboles de Nueva Jersey y operador de cuidado de árboles con licencia y propietario de Hn Tree Care LLC. Henry se dedica primero a su familia; su esposa, sus tres hijos y 2 perros. Henry es un apasionado de la industria arbolista y le encanta invertir tiempo en dar lo mejor de sí en la primera impresión, lo que ha creado una filosofía "Hacer lo correcto la primera vez" durante la experiencia de su crecimiento como trepador de árboles, 24 años en la industria arbolista. Puedes conectarte con Henry a través de YouTube, @henrynavarrohn, donde continuamente busca publicar mensajes inspiradores y videos de todos los aspectos de su vida.

**Pruning Young Trees For A Proper Future:** This bilingual session will focus on the basics of structural pruning beginning with some common terms, basic anatomy, young tree pruning for good structure, pruning types, repairing poor nursery stock by salvaging and obvious defects to avoid. The how, when, where, & why of professional pruning of trees which will set the stage for the future growth and safety of what you will learn. This session will also provide the attendees with information needed when taking the LTE & LTCO exam. EVERY TREE STARTS AT THE NURSERY.

**Gary Lovallo** LTE, CF, CA, CTSP, NJAF is Principle of Chestnut Arboricultural & Forestry Services LLC., located in Old Bridge, NJ and has been in the tree care industry and a consulting forester since 1982. He has a B.S. in Natural Resource Management from Rutgers University, is a NJ Licensed Tree Expert, NJ State Approved Forester, SAF Certified Forester, ISA Certified Arborist, Certified Tree Safety Professional, and maintains a pesticide business and applicator license. Lovallo is Past president of the NJ Society of Certified Tree Experts, the NJ Chapter of ISA, and an ISA International Representative. He was appointed by the Governor to the NJ Board of Tree Experts and is a co-founder and Director of Training for the Committee for the Advancement of Arboriculture. Has worked as the utility Regional Forester, Superintendent of County Shade Tree Commission, and as consulting forester for several communities. Has completed numerous hazard tree surveys, written Community Forestry Management Plans, drafted tree removal ordinances upheld by the NJ Supreme court, and served on the NJ Task force for model ordinance development as an advisor to the NJ Board of Public Utilities Vegetation Management Standards. He is a FEMA task force specialist and has



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written contract specifications and tree preservation reports for local Boards of Adjustments. Lovallo has lectured for ASCLA in Atlantic City, NJSCTE, NJ Shade Tree Federation, and various arborists' seminars and educational events. He has been published in TCIA magazine, has testified in court and legislative proceedings, and written various reports related to appraisals, tree hazards and tree related fatalities.

**Henry Navarro** is a 45-year-old resident of Flanders, New Jersey. Born in Costa Rica (Central America), I arrived in the United States on September 17, 1995 with permanent residence and became an American citizen 5 years later. From a very young age I worked in the fields with my uncles, where I learned a lot by seeing what they did. One of my virtues is learning to do tasks just by observing another person how they do it. I am a New Jersey Licensed Crane Operator, New Jersey Tree Expert and Licensed Tree Care Operator and owner of Hn Tree Care LLC. Henry dedicates himself first to his family; his wife, his three children and 2 dogs. Henry is passionate about the arborist industry and loves to invest time in putting his best foot forward in the first impression, which has created a "Do the right thing the first time" philosophy throughout his experience growing up as a tree climber, 24 years in the arborist industry. You can connect with Henry through YouTube, @henrynavarrohn, where he continually seeks to post inspiring messages and videos from all aspects of his life.

### GESTIÓN INTEGRADA DE PLAGAS EN ÁRBOLES Y ARBUSTOS – Erika Cherry

3:30-4:30pm | Spanish Track | Crystal Room

En esta charla de una hora, Erika analiza la pregunta “¿Qué es la gestión integrada de plagas?” y nos lleva a través de los componentes de los programas de esta práctica, incluida la identificación y los síntomas de plagas, el monitoreo, las pautas y los umbrales de acción, además de los métodos de gestión. Esta charla se centra en las enfermedades de árboles y arbustos y las plagas de insectos. Obtendremos una base para la comprensión de los trastornos abióticos y bióticos, el triángulo de las enfermedades y una descripción general de las enfermedades e insectos comunes en árboles y arbustos para que podamos identificar y abordar de manera eficaz los problemas de árboles y arbustos a través de estrategias de control adecuadas. **Erika Cherry** es Licenciada en Diseño Gráfico con más de 9 años de experiencia en el diseño y desarrollo de materiales educativos. El país natal de Erika es México. Sus excelentes habilidades de comunicación bilingüe le han permitido traducir el material de capacitación pertinente sobre pesticidas al español, donde capacita a los estudiantes en su lengua materna. Se ha capacitado y certificado satisfactoriamente y realiza cursos prácticos de capacitación sobre pesticidas, lo que brinda a sus estudiantes una manera más cómoda y fácil de aprender el material necesario. Las sólidas habilidades organizativas de Erika, junto con su sentido agudo y detallismo, le dan la oportunidad de conectarse con los estudiantes de un modo que simplifica y facilita la comprensión de los temas. Este enfoque dinámico y personal fomenta la confianza en quienes participan en las clases de Erika y les da una perspectiva más clara sobre el uso general y la seguridad de las aplicaciones de pesticidas.

# EXHIBITOR DIRECTORY



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Host: Tom Polizos

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Hosts: Michael Errico, Gus Alonso



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[tyler@cerbogreenhouse.com](mailto:tyler@cerbogreenhouse.com)

Hosts: Tyler Cerbo, Anthony Cerbo, Chris Pollison, Jeremy Cerbo



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45 Route 206  
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[brendan@plantdetectives.com](mailto:brendan@plantdetectives.com)

Hosts: Brendan Perlee, Emily Och



**PlanIT Geo**

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[katherinecurtis@planitgeo.com](mailto:katherinecurtis@planitgeo.com)  
Hosts: Alex Hancock, Michael Martini



**Rainbow Ecoscience**

Since 1976, Rainbow has been a leader in the Green Industry, advancing the science and understanding of plant healthcare through research and the development of predictable management protocols. As one of the nation's largest independent tree service companies, Rainbow brings unmatched knowledge in both the science and the daily operations of plant healthcare. We are passionate about serving you.  
11571 K-tel Drive  
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215-205-8674  
[bdolan@rainbowecoscience.com](mailto:bdolan@rainbowecoscience.com)  
Hosts: Bob Dolan, Mark Ware



**RichView Consulting**

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Arboricultural & Forestry Services.  
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Hackettstown, NJ 07840  
973-220-6797  
[Rich@richviewconsulting.com](mailto:Rich@richviewconsulting.com)  
Hosts: Tom Purtell, Tina Gardner, Richard Wolowicz



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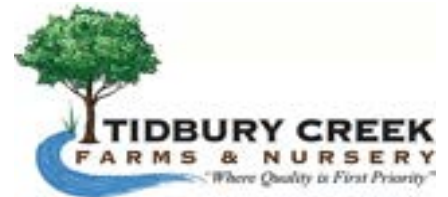
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Hosts: Myles Caracciolo, Taylor Caracciolo



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Hosts: Peter Szymanski, Danielle Kasyjanski



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Hosts: Joe Mlinarevich, Carolyn Vazquez

## NON-PROFIT EXHIBITORS



**NJ Urban & Community Forestry Program – CONFERENCE PARTNER**  
The New Jersey Forest Service – Urban and Community Forestry

Program (NJUCF) ensures more livable communities by providing local governments with educational, technical, and financial assistance for the planting, care, and management of trees and forests. Proper management of the urban and community forest resource yields environmental, economic, and social benefits vital to the well-being of the most densely populated and urbanized state in the nation.

PO Box 420, Trenton, NJ 08625-0420  
609-292-2532, [Communityforestry@dep.nj.gov](mailto:Communityforestry@dep.nj.gov)  
Hosts: Terri Slack, Patricia Shapella, Gail Harrie



**NJ Tree Foundation – CONFERENCE PARTNER**  
The NJ Tree Foundation is a statewide nonprofit organization dedicated to planting trees in

New Jersey's most urban neighborhoods, where the need is greatest. Through tree planting, volunteerism, and partnerships, we assist numerous communities in improving their environment and quality of life.

Website: [njtrees.org](http://njtrees.org)  
Hosts: Pam Zipse, Elena Messina, Nicole Castillo, Crystal Wessel



**Sustainable Jersey**  
Sustainable Jersey is a network and movement of municipalities, schools and school districts working collectively to bring about

a sustainable New Jersey. Acting with state agencies, non-profit organizations, foundations, academia and industry, Sustainable Jersey researches best practices for what communities could and should do to contribute to a sustainable future.

Sustainable Jersey at the Sustainable Institute, The College of New Jersey  
200 Pennington Rd. Forcina Hall, 3<sup>rd</sup> Floor  
PO Box 7718, Ewing, NJ 0862-0718  
607-7712-2836, [mcdermom@tcnj.edu](mailto:mcdermom@tcnj.edu)  
Host: Melanie McDermott



**NJ Arborists Chapter of the ISA CONFERENCE PARTNER**  
The NJ Arborists Chapter of the International Society of Arboriculture

PO Box 674, Moorestown, NJ 08057  
609-665-9696, [jgreipp@njisa.com](mailto:jgreipp@njisa.com)  
Host: Joe Greipp



**ANJEC, The Association of New Jersey Environmental Commissions**  
For 50 years, The Association of New

Jersey Environmental Commissions has been a statewide organization that provides leadership, education, and support for environmental commissions and other local boards and public officials, and partners with other organizations to advocate for strong state and regional environmental policy.

PO Box 157, Mendham, NJ 07945  
973-713-7143, [sbakergujral@anjec.org](mailto:sbakergujral@anjec.org)  
Host: Sheila Baker Gujral



**Rutgers Urban Forestry Program – CONFERENCE PARTNER**

The Rutgers Urban Forestry Program offers a major option in Urban Forestry, and is a partner in several graduate program and

post-doctoral research projects. In addition, the program works with partners in industry and government to provide outreach and education in Urban Forestry throughout New Jersey and beyond. The Urban Forestry program is part of the Rutgers Department of Ecology, Evolution, and Natural Resources. If you have any questions, or think you may be interested in urban/community forestry as a career, please contact us.

Waller Hall, 59 Lipman Drive  
New Brunswick NJ 08901  
848-932-0050, [grabosky@sebs.rutgers.edu](mailto:grabosky@sebs.rutgers.edu)  
Host: Roslyn Dvorin, Dr. Jason Grabosky

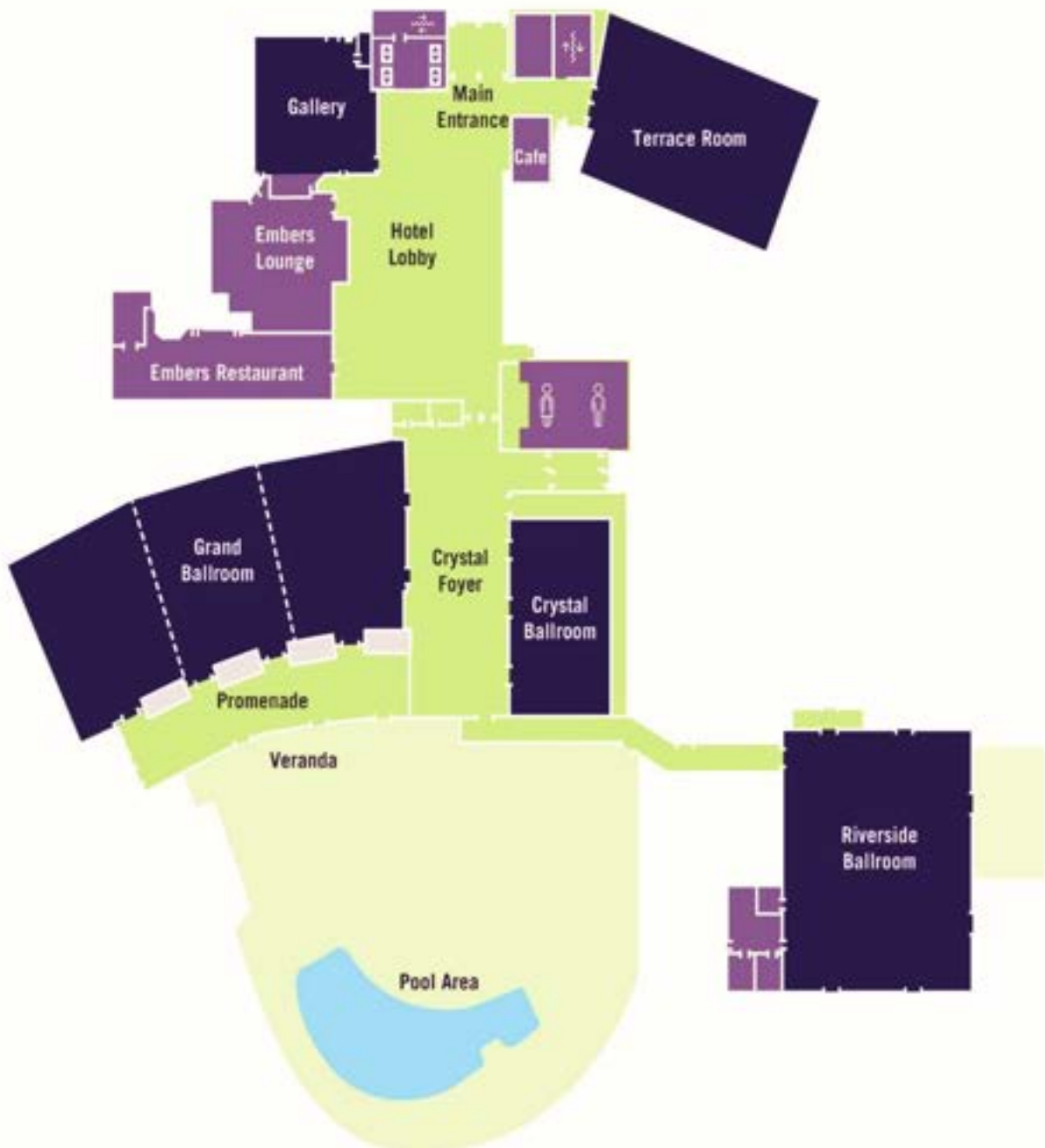
**NOTES**

Lined area for taking notes, consisting of multiple horizontal lines.

# Lobby Level

## Floor Map Key

- Meeting/Conference Rooms
- Amenities/Service Areas
- Entrance Hall/Public Space
- Pool
- Outdoor Space



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