



NEW JERSEY
TURFGRASS
ASSOCIATION

clippings

Issue 2 • 2016 | VOL 92

Registration Open!

GREEN EXPO

TURF & LANDSCAPE

Tuesday, December 8 — Thursday, December 10, 2016

Science-Based Education • Credits Trade Show • Fellowship

Business Contacts • Silent Auction • Networking

REGISTRATION INFORMATION

WWW.NJTURFGRASS.ORG



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President's Message: Dennis DeSanctis Jr.

*Dennis DeSanctis, Jr.
NJTA President*



Congratulations!

You just survived the hottest summer ever!

Hopefully most of your grass did too

I usually get tired of talking about the weather, the standard 'small chat' go-to, but this year truly warrants mention of the records that were set. Each of the first six months of 2016 set a record as the warmest respective month globally in the modern temperature record, which dates to 1880, according to scientists at NASA. For the third year in a row, Earth also set its record hottest summer (June-August 2016), according to NOAA. In fact, August 2016 was the hottest month measured since contemporary records began, according to NASA. It was not only the hottest August ever, but many sources say it ties July 2016 as the hottest month ever—an extraordinary occurrence.

As for New Jersey, August 2016 was the second hottest August on record, and the meteorological summer (June 1 through Aug. 31) was the fourth hottest, according to temperature data compiled by New Jersey State Climatologist David Robinson at Rutgers University. These facts are nothing to sneeze at when you're managing high quality turfgrass surfaces. In fact, this weather was downright painful for turfgrass managers – mentally, emotionally, and physically.

As the year over year weather trend seems to get more severe, we rely not only on our personal experience, but also on University research and education to help expedite industry innovations and turfgrass management techniques. This is why your membership and participation at association events are as important as ever – our associations help support this research and innovation. The 2016 Rutgers Turfgrass Field Days are a perfect example: not only were the research findings and overall education outstanding, the association proceeds help financially support this high quality research.

Thanks to you, the NJTA and NJTF have recently been able to commit substantial financial support to numerous Rutgers University Turfgrass research initiatives and projects. The list of these initiatives and projects is long and you will surely hear about them in future *Clippings* issues and at events such as the upcoming Green Expo in Atlantic City.

As for Expo, if you are a practitioner, you're definitely going to enjoy another outstanding educational schedule created by hours of hard work by our Expo committee. If you are a commercial member, we strongly encourage you to purchase a trade show booth – be seen and support your association – please.

Wishing everyone a happy and healthy autumn!

Dennis DeSanctis, Jr.

Dennis DeSanctis, Jr.

Dennis DeSanctis, Jr.
NJTA President



NEW JERSEY
TURFGRASS
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UPDATE YOUR MEMBER INFORMATION at

www.njturfgrass.org

Sign in with your email and create a password.

Check out the Member Directory.

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Many hands make it happen

by Cece Peabody, MAT, CMP,
NJTA Executive Director



It takes a village to make it happen -- you've heard this phrase in relation to raising a child, but probably have not heard it about preparing for an event. But it takes a board of directors and lots of volunteers and staff to make it happen. There are lots of people involved, lots of moving pieces, and tons of logistics in putting together an event as big

as the Green Expo.

Actually, the Expo committee started three years ago finding the new venue, the hotel. When we moved from the Taj Mahal to the Borgata, we knew we had a winner, but we wanted our attendees and business partners/exhibitors to feel the same way. When they agreed, we put our future in the Borgata and made plans to stay with them for another couple of years. The first year, we reached out to our exhibitors before the Expo was completed and gave them the opportunity to renew their same booth location first. Many did and they felt comfortable knowing they had 'taken care of business' before the holidays. We felt great knowing they wanted to return to the Borgata too.

In January, the committee chair *Chris Carson*, and Co-Chair, *Keith Kubik*, set up a series of meetings to determine the focus and theme ideas for the upcoming year's education program, which then drives the names of speakers and educational topics. Allied association representatives are all involved in this process to give Expo a variety of topics and an overview of the industry from every viewpoint. A preliminary educational program is outlined and the first round of speakers are contacted by committee members. Additional committee meetings are held to review the progress, and to select new topics and speakers as needed. The educational program is ideally completed by March or April.

Your Executive Director (me) is concurrently mailing, calling, and emailing exhibiting companies to sign up for the new year's Expo, and contacting previous sponsors to return, and setting up all the logistics on the website. Early Registration forms are redesigned and placed on the website, and registrations start to come in and are processed.

Speakers will then be contacted, the detailed Schedule breakdown will be created, and the session descriptions are written so Credits from the various states can be applied for. The new Registration Brochure will be designed and the schedule will be placed in it once finalized. Sponsors are also contacted to be included in the brochure.

There are so many more tasks and logistics too numerous to mention in this short column that go into making the Green Expo an event that you definitely want to attend. Each person who has a hand in making this happen is so important to the overall success. A huge thank you to all who are part of this process, both before and during and even after.

We hope that when you get to the Borgata that it runs as seamlessly as we planned it to, and that you get out of Expo what you have expected year after year...credits, networking, fun, education, friends... and so much more.

New Jersey Rutgers Turfgrass Field Days 2016 Wrap-Up

by Pedro Perdomo

Well, well, well, it seems like Rutgers faculty, staff, and industry volunteers put on a great show for the turf community, and I would rank it as one of the best in the past several years. The program speakers, topics, and demonstrations were impressive. And to cap it all off, the weather was perfect. Even with the nice weather, the events still saw more than 750 attend and they were in for a great couple of days. And right on schedule, the hordes of hungry-for-knowledge attendees took to the plots.

As always, the volunteers were ready bright and early to help with coordination of parking, and it seems like no matter how many cars come on the farms, they always find room for all of us. The flag bearers helped move the attendees along to each stop. I was blue, which one were you? And then there were the ice and water carts that drive around all day to ensure that we are all properly hydrated, although this year that was less of a problem. Thank you to Sam's Club for supporting the event by donating the water. *Ed Potosnak* and *Tracy Wadhams* were your water cart drivers for the day -- thanks for volunteering to do this again.

The program has calculated the amount of water to have on hand to cover all the attendees, but even with all the walking at Adelphia, we did not lose anyone due to heat or rain, and still had plenty of water for the days.

What about the stops? Anything new or exciting? It depends on who you are, but let's just say that there is a group of 20 turf industry visitors that come every year from Canada, because this is the field day to visit. That is a long way to come to see the Rutgers plots, but well worth it. *Pat Hastings of Rutgers* also did a unique Core talk looking at PPE and it was well received by the group. *Dr. Bruce Clarke of Rutgers*, had a humongous smile on his face, so that means that there were plenty of spots and patches to show the attendees. *Drs Bill Meyer, Stacy Bonos, and Jim Murphy of Rutgers* were among some of the other faculty members who displayed plots and offered tips on growing better bent, Kentucky bluegrass, perennial ryegrass, and tall fescue. We were even treated to a short introduction to the new weed science specialist at Rutgers, *Matt Elmore*. He spoke about some of the key summer weeds in New Jersey as well as invited comments on what the industry felt were the critical weeds. He will be starting later this year at Rutgers University so expect to see him in full force next year.

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Rutgers Turfgrass Research FIELD DAYS

The Foundation silent auction had a new 'sheriff' this year. *Matt Lindner*, new Silent Auction chair, felt that the field days silent auction needed some new excitement. So a sub-committee was put together headed by Matt, with assistance from *Jeff Weld*. New colorful yellow canopies with event logos were purchased to highlight the auction area. Different types of donations were solicited through Amazon, and Matt began to do his thing. Both field days were able to bring in more than double the normal donations from previous years. Donations from the Silent Auction benefit the scholarships and projects of the New Jersey Turfgrass Foundation. Thanks to all who purchased. Nice job Matt and the full silent auction sub-committee for the hard work putting all this together!

And what about that survey? This year the field day survey was offered online and we had 63 attendees (<10%) respond, but we got lots of good critiquing of the event and many tips for next year. The survey is your way to give comments about the field days, and yes we read each one of them and are willing to make changes in the set-up and roll out of the days, but we need to hear from you. So next time, click on the survey and take a few minutes to help us offer you the best field days possible.

Thanks to the Rutgers faculty and staff, graduate students, farm staff, industry volunteers, and lastly, the field day committee for putting on a great show.

Oh, did I forget anyone? Why yes, thank all of you for attending. Without you the day would not be the same.

See you next year!!

Expo 2016: Education, Relaxation, Camaraderie... and Business Opportunities

by Chris Carson, Green Expo Chairman

After a long summer of oven-baked turf and grounds maintenance, it's time to reflect on what went well and on the things we can do better... and there is no better place to do that than at the Green Expo at the Borgata Hotel from December 6-8. Presented by the New Jersey Turfgrass Association in partnership with a number of other associations, over 1200 green industry professionals will be there to refresh their education "batteries," relax with old and new friends, and celebrate making it through another difficult year in the green industry.

The Expo Committee has been hard at work making sure that the very best speakers will be present to offer cutting-edge science, practical solutions to your problems, and helpful tips that you can immediately incorporate into your operation. And when the formal education is over, there will be plenty of chances to relax and discuss what you've learned. Whether you have a quiet conversation with one of our outstanding speakers or a quick hallway chat with a colleague, Expo provides the critical mass of landscape and turf professionals that makes for an environment of learning everywhere you turn.

Need credits? NJDEP Pesticide Applicator and Pro-FACT fertilizer applicator credits are available in abundance, all at a low cost-per-credit that makes Expo a superb value.

The trade show is Tuesday and Wednesday, and our Business Partners have been actively preparing to welcome you there: you can expect a collection of booths that highlight solutions you can use to perform better or more efficiently. Our many sponsors have made sure that you have a good time by providing outstanding food and drink that help make it a festive atmosphere, and we hope that you will help us make the event even better with your attendance. And don't forget the NJ Green Industry Council's silent auction, which will again present a wide variety of fun and useful items for sale. Proceeds help the GIC continue their important work on behalf of all of us.

We've negotiated a low cost for hotel rooms at the Borgata and The Water Club. Please note that rooms sold out completely in each of the last two years, so we suggest that you act fast to make sure you won't be disappointed with accommodations.

So, please take a look at the Expo brochure and write Expo into your calendars on December 6-8.

Your friends will be there to greet you, world-class scientists will be there to teach you, and business partners will be there to support you. It's truly a fantastic show at a premium facility, and your presence is requested!



NJ EAB Task Force Recommendations

*Pam Zipse and Jason Grabosky with Rich Buckley,
Mark Mayer, Nick Polanin and Rosa Yoo for the NJ EAB Task Force*

Emerald Ash Borer is here, there's no avoiding it. As shade tree program representatives you have no doubt been bombarded with information – pest alerts, fact sheets, reports, tool kits – all helpful, all overwhelming. You know that you need an inventory of your ash resource – and congratulations to the many municipalities that have already achieved this critical step. You know that there are several treatment options if you start early, and you know that “do nothing” is really not an option for your shade trees, as over 99% of untreated ash trees in the landscape will eventually become infested and die from EAB.

The NJ EAB Task Force, comprised of representatives from the NJ Department of Agriculture, NJ State Forest Service, USDA APHIS, Rutgers University, and USDA FS, have been monitoring the spread of EAB through NJ again this year, and are grateful to the municipalities that are participating in the trapping program or have called to report signs of EAB. We will continue to update the EAB Task Force website (www.emeraldashborer.nj.gov) with new information and resources, and encourage you to check the site often.

The Task Force would like to take this opportunity to call your attention to the outreach and education needs of your municipal EAB plan. Emerald Ash Borer is relatively new to New Jersey, and represents a new and potentially frenzied market in tree work. **Unfortunately, we have already seen examples of misidentification and misleading treatment advice.** We encourage you to arm yourselves with information, and to help the residents of your communities to do the same! Remember that an enormous piece of the financial burden of EAB will fall to the homeowners who have ash trees on their properties. Make sure that money spent is spent well. This is an opportunity for you as knowledgeable shade tree stewards to provide a very visible, tangible service to the community, and possibly an avenue to drive community participation in future tree issues.

Learn how to identify ash trees. Pay close attention to the branching structure and to other compound leaf
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species that look similar, and become proficient at telling them apart. Work with your management plan consultant or other NJ Certified Tree Expert to make sure you are correct. Then you can offer this as a service to your residents, or hold a workshop to teach your residents how to do it themselves. EAB only kills true ash (*Fraxinus*) species. Identification, just to the genus level, is the first step. The insecticides used against EAB are not specific to EAB; you want to avoid unnecessary treatment of non-host tree species that will have an adverse effect on non-target insects, waste a lot of money, and add unnecessary chemicals into the growing environment of these trees.

Learn about the other factors that kill ash trees. There are a lot of them, and the symptoms can look very similar to some of the symptoms of EAB. There are several other borers that will infest ash, and there are diseases that cause severe decline and death in ash as well. This is important to consider because treatment for EAB is only worthwhile if the tree is going to survive through the length of the infestation, which could be 20 years or more. If the tree is in poor condition or dying of ash yellows, there is no point in treating it for EAB. You want to consider the current health, structural stability, and suitability to location when making the decision whether or not to treat for EAB. Encourage residents to work with a competent and experienced NJ Certified Tree Expert to evaluate the condition of their ash trees, and to contract with a NJ Certified Pesticide Applicator for all chemical treatments. Chemical treatments must be applied properly and skillfully in order to be fully effective, and must be applied in strict adherence with the label instructions.

Study the treatment research. At the very least become informed on the many approaches which are currently available, and stay up to date as there are several research teams across the US working on new tools and alternatives for dealing with EAB. The treatment and pest timelines suggest that we will be treating for at least the next decade or two, and there will be treatment advances.

Continued on page 10



2016 Rutgers Turfgrass Research FIELD DAYS





Pictures Courtesy of Matt Sweatlock, NJTA Director



NJ EAB Task Force

Continued from page 7

The publication that the NJ EAB Task Force and the Rutgers Plant Diagnostic Lab use as a reference for EAB treatment recommendations is the bulletin "Insecticide Options for Protecting Ash Trees from Emerald Ash Borer." This document is a product of the Cooperative Emerald Ash Borer Program and summarizes the research findings of experts from The Ohio State University, Michigan State University, Purdue Extension, and Colorado State University Extension. It is a must read. You can find a link to this bulletin on the NJ EAB Task Force website. Copy this link and post it on your own municipal website and encourage your residents to read it too. Use this information to protect your community against bad advice.

Get organized. Work with residents and neighboring communities to schedule treatments and removals in bulk. Get quotes from several reputable tree care experts and ask about the possibility of reduced pricing for a combined contract. This should help to significantly reduce the cost to the individual homeowner for treatments and removals. Make sure the treatment options recommended match up with the research to ensure the best possible results. Triage your ash resource and spread removals out over the next several years to help avoid a glut in the market as well as a shortage of professionals to perform the work. Prioritize and pace yourselves. This is going to be a long process, and we have barely just begun.

Finally, if you are a tree care professional, realize that you are assumed to be an informed expert. Please be careful not to bundle other services and business plans into a larger program; be clear as to what is, and what is not, part of an EAB response. Be the expert, and stay on top of the research and product advances. For the collective good of the industry and its status as a professional career, it is better to deploy the best tools than to sell false solutions. Know the signs and symptoms of EAB, and how to distinguish them from other borers and diseases of ash. If you are not sure, contact the Task Force for help. Stay informed with the latest research, technologies, and strategies for managing EAB. Work with communities to schedule bulk treatments and removals, and find creative outlets for wood utilization. Be a resource for ash identification and management decision making. Provide quality advice for the good of the profession.

We wish you all the best of luck in the difficult times ahead. Please stay in contact with the NJ EAB Task Force. Continue to report sightings of EAB, and share your struggles, victories, questions, and ideas. We will do our best to help, and will keep you informed through our website (www.emeraldashborer.nj.gov), which contains information and links to help with all the recommendations listed above. Please visit our booth at the NJ Shade Tree Federation annual meeting in Atlantic City this October. We look forward to seeing you there!

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GOLF PROGRAM

TUESDAY, DECEMBER 6, 2016

CORE SESSION 9:00 - 11:30 AM & LUNCH

5 Credits Core

- 9:00 - 9:30 Update on Pollinators and Pesticide Use and Safety *Tim Schuler, NJ State Apiarist*
 9:30 - 10:30 Pesticide Toxicology "Pick Your Poison" *Mike Reed, Synatek*
 10:30 - 11:30 NJDEP Update *Stephen Bross, NJ DEP*

9:00 - 12:00 CONCURRENT SESSION - GCSANJ Seminar Technology in Turf

William Brown, CGCS Founder & CEO, Turf Republic

- 10:00-12:00 GCSANJ Superintendent Panel Discussion: "What's Different, What's the Same?"
 Innovation, Ideas and Inspiration from 4 Superintendents
 GCSANJ has brought together four superintendents from different kinds of clubs to discuss the differences between operations, the ways they are the same, and the lessons they've learned at their clubs. Come prepared with your questions and for animated conversation, and maybe you will discover a few insights that you will be able to use at your golf course next season.

Jason Pierce, Heron Glen Golf Course • Chris Carson, Echo Lake Country Club
 Jeremy Hreben, Indian Springs Country Club • Mark Kuhns, Baltusrol Golf Club



11:30 - 1:00

ALL ATTENDEES LUNCH

Sponsored by STORR TRACTOR COMPANY NJTA's loyal friend, Mary Lou DesChamps, sponsors lunch. We thank her for all she does for the industry!



Storr Tractor



WEDNESDAY, DECEMBER 7, 2016

GOLF 8:30 - 11:30 AM

8:30 - 11:30 AM: 3 Credits - 3B, 6B, 8C, PP2; 1 ProFACT

- 7:00-8:30 Rutgers Turfgrass Advisory Board Breakfast - BY INVITE -
 8:30-9:15 How PGR & Fertilizer Programs Influence Poa Populations *Dr. Cale Bigelow, Purdue University*
 9:15 - 10:00 The Growing Problem of Herbicide Resistance in Turfgrass *Dr. Scott McElroy, Auburn University*
 10:00 - 10:30 Zika Virus: What New Jersey Needs to Know *Dr. Randy Gaugler, Rutgers University*
 10:30 - 11:30 Preparation and Presentation of the 2016 PGA Championship at Baltusrol *Mark Kuhns, Dan Kilpatrick, Jim Devaney - Baltusrol Golf Club*

THURSDAY, DECEMBER 8, 2016

GOLF SESSIONS 8:00 AM - NOON

8 AM to NOON: 5 Credits: 3B, 6B, 8C, PP2

- 8:00-12:00 Rutgers Golf Seminar
 8:00 - 8:30 History of the Rutgers Turfgrass Program *Dr. Bruce Clarke, Rutgers University*
 8:30 - 9:00 Monitoring and Forecasting Annual Bluegrass Weevil Populations *Dr. Albrecht Koppenhöfer, Rutgers University*
 9:00 - 9:30 Pathology Meteorology: Forecasting Outbreaks in Turfgrass *Dr. Joseph Roberts, University of Maryland*
 9:30 - 10:00 Using Bentgrass Tolerance, Disease Predictive Models and Fungicide Timing to Control Dollar Spot on Fairway Turf *James Hempfling, Rutgers University*
 10:00 - 10:30 Timing PGRs Based on Growing Degree Day Models *Dr. Matthew Elmore, Rutgers University*
 10:30 - 11:00 Fairway Bentgrasses and Divot Recovery *Dr. Stacy Bonos, Rutgers University*
 11:00 - 11:30 Plant Activators and Turfgrass Health: Impact on Heat and Drought Tolerance *Dr. Bingru Huang, Rutgers University*
 11:30 - 12:00 Topdressing Sand: How Fine is Too Fine? *Dr. Jim Murphy, Rutgers University*

NOTE: Credits lists are anticipated BUT NOT CONFIRMED at print.

GOLF SESSIONS 1:00 - 4:00 PM

1-4 PM: 1 Credit - 3B, 6B, 8C, PP2

- 1:00 - 1:45 USGA Year in Review *Dave Oatis, USGA*
 1:45 - 2:15 Designing Maintenance Buildings *Tony Panza, AIA, James G Rogers Architects*
 2:15 - 2:45 25 Years of the Plant Diagnostic Laboratory at Rutgers: Trends in Turf Disease Diagnosis *Rich Buckley, Rutgers University*
 2:45 - 3:15 Updates on Brown Ring Patch Control: Field Observations and Research Results *Steve McDonald, Turfgrass Disease Solutions*
 3:15 - 4:00 Oakmont: Preparing a Legend *Elliot Dowling, USGA*



4:00 - 8:00 TRADE SHOW and DINNER - DAY 1

Grand Opening - Sponsored by SYNGENTA
 "Dine Around" the Trade Show - Sponsored by BASF
 Beverages - Sponsored by LA BAR GOLF RENOVATIONS

TRADE SHOW LEARNING SESSIONS

- 5:00 - 5:30 Not EAB: Other New and Destructive Insect Pests to Keep an Eye On. (1-3A Credit) *Sabrina Tirpak, Rutgers University*
 6:30 - 7:00 Sustainable and Pesticide Free: Rain Gardens with Curb Appeal! (1-3A Credit) *Michele Bakacs, RCE of Middlesex County*

GOLF SESSIONS 2:30 - 5:00 PM

2:30-5:00 PM: 3 Credits - 3B, 6B, 8C, PP2

- 11:30 - 2:30 TRADE SHOW and LUNCH - DAY 2
 12:00 - 12:30 TRADE SHOW LEARNING SESSIONS
 12:00 - 12:30 Not Boxwood Blight: Other New and Destructive Diseases that Might be Coming Your Way (1-3A Credit) *Rich Buckley, Rutgers University*
 1:30 - 2:00 Rust Never Sleeps: Common Springtime (Tree) Diseases in the Landscape (1-3A Credit) *Nick Polanin, RCE of Somerset County*
 2:30 - 3:00 Understanding Cultivation Technique Options *Adam Moeller, USGA*
 3:00 - 3:30 Removing Bermuda and Poa from Bentgrass Turf *Dr. Scott McElroy, Auburn University*
 3:30 - 4:30 Bugs in a Jug: New Insight on Turfgrass Microbiology *Dr. Joseph Roberts, University of Maryland*
 4:30 - 5:00 Weed and Density Management in Fine Fescue Native Areas *Steve McDonald, Turfgrass Disease Solutions*



CORE 1:00-3:00 PM • ProFACT Session 1:00-4:00 PM

- 1:00 - 3:00 CORE Session 4 CORE Credits
 Protective Equipment for Pesticides: Don't Get Caught Exposing Yourself...
Pat Hastings, Rutgers University
 (See description on page 5)
 1:00 - 2:30 OPTIONAL
 ProFACT Training (2 separate rooms)
 SPANISH & ENGLISH: Prepare for the ProFACT Fertilizer applicator's test.
 Presentation in Spanish by Dr. Raul Cabrera.
 Presentation in English by Dr. Jim Murphy.
 2:30 - 4:00 ProFACT Exam (2 separate rooms)
 SPANISH & ENGLISH: English or Spanish Written Exam Available
 (Separate \$75 Exam fee required)
Dr. Jim Murphy, Rutgers University and Dr. Raul Cabrera, Rutgers University

LAWN & LANDSCAPE PROGRAM

TUESDAY, DECEMBER 6, 2016

CORE SESSION 9:00 - 11:30 AM & LUNCH

5 Credits Core

- 9:00 - 9:30 Update on Pollinators and Pesticide Use and Safety *Tim Schuler, NJ State Apiarist*
- 9:30 - 10:30 Pesticide Toxicology "Pick Your Poison" *Mike Reed, Synatek*
- 10:30 - 11:30 NJDEP Update *Stephen Bross, NJ DEP*
- 11:30 - 1:00 **ALL ATTENDEES LUNCH**

Sponsored by STORR TRACTOR COMPANY NJTA's loyal friend, Mary Lou DesChamps, sponsors lunch. We thank her for all she does for the industry!



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WEDNESDAY, DECEMBER 7, 2016

L & L SESSIONS 8:30 - 11:30 AM

8:30 - 11:30 AM: 4 Credits - 3B, 6B, 8C, PP2

- 8:30 - 9:00 Fundamental of Herbicides *Dr. Matt Elmore, Rutgers University*
- 9:00 - 9:30 Zika Virus: What New Jersey Needs to Know *Dr. Randy Gaugler, Rutgers University*
- 9:30 - 10:00 Irrigation: Use or Abuse *Dr. Jim Murphy, Rutgers University*
- 10:00 - 11:00 Overview of the Important Insects that Plague Landscape Turf, and Their Control *Dr. Albrecht Koppenhöfer, Rutgers University 2-3B*
- 11:00 - 11:30 Alternatives to 2,4D and Other Auxin Herbicides in the Landscape *Dr. Scott McElroy, Auburn University*

THURSDAY, DECEMBER 8, 2016

BUCKLEY'S BOOT CAMP 8:00-12:00 AM

- 8:00 - 9:30 Killers and Zombies: Predators and Parasitoids in the Landscape (AKA: Biocontrol!) *Sabrina Tirpak, Rutgers University 3-3A*
- 9:30 - 10:00 Credits, Break and Questions
- 10:00 - 11:00 Buckwheat and the Land Shrimp 2-3B *Rich Buckley, Rutgers University*
- 11:00 - 12:00 If It's Summer, Must Be Summer Patch 2-3B *Rich Buckley, Rutgers University*
- 12:00 - 1:00 Lunch on your own

NOTE: Credits lists are anticipated
BUT NOT CONFIRMED at print.

L & L SESSIONS 1:00 - 4:00 PM

1-4 PM: 4 Credits - 3B, 6B, 8C, PP2; 2 Credits - 3A

- 1:00 - 2:00 The ABC's of Tree Pest Management in the Landscape - Abiotic, Biotic, and Clients 2-3A *Nick Polanin, RCE of Somerset County*
- 2:00 - 3:00 The Basidiomycota in Turf: Fairy Ring, Thatch Collapse, and Other Minor Mushroom Diseases in Turfgrass Systems 2-3B *Rich Buckley, Rutgers University*
- 3:00 - 4:00 Organic Land Care: What Does it Mean for You and Your Client? 2-3A *Michele Bakacs, RCE of Middlesex County*

4:00 - 8:00 **TRADE SHOW and DINNER - DAY 1**
Grand Opening - Sponsored by SYNGENTA
"Dine Around" the Trade Show - Sponsored by BASF
Beverages - Sponsored by LA BAR GOLF RENOVATIONS

TRADE SHOW LEARNING SESSIONS

- 5:00 - 5:30 Not EAB: Other New and Destructive Insect Pests to Keep an Eye On (1-3A Credit) *Sabrina Tirpak, Rutgers University*
- 6:30 - 7:00 Sustainable and Pesticide Free: Rain Gardens with Curb Appeal! (1-3A Credit) *Michele Bakacs, RCE of Middlesex County*

L & L SESSIONS 2:30-4:00 PM

2:30-5:30 PM: 2 Credits - 3B, 6B, 8C, PP2 + 1 ProFACT

11:30 - 2:30 TRADE SHOW and LUNCH - DAY 2

TRADE SHOW LEARNING SESSIONS

- 12:00 - 12:30 Not Boxwood Blight: Other New and Destructive Diseases that Might be Coming Your Way. (1-3A Credit) *Rich Buckley, Rutgers University*
- 1:30 - 2:00 Rust Never Sleeps: Common Springtime (Tree) Diseases in the Landscape. (1-3A Credit) *Nick Polanin, RCE of Somerset County*
- 2:30 - 3:00 Emerging Organic Trends for Managing Home Lawns *Dr. Joseph Roberts, University of Maryland*
- 3:00 - 3:30 Understanding the Role of Phosphorus in Lawn Fertilization *Dr. Cale Bigelow, Purdue University*
- 3:30 - 4:00 Selecting Rutgers Turfgrass Varieties for Pesticide Resistance *Dr. Bill Meyer, Rutgers University*
- Sports Fields and Lawn & Landscape Joint Session: 2 ProFACT**
- 4:15 - 5:15 Fertilizer Selection and Programming for Sports Fields, Lawns and Grounds *Dr. Cale Bigelow, Purdue University*

CORE 1:00-3:00 PM • ProFACT Session 1:00-4:00 PM

- 1:00 - 3:00 **CORE Session 4 CORE Credits**
Protective Equipment for Pesticides: Don't Get Caught Exposing Yourself... *Pat Hastings, Rutgers University*
(See Description on page 5)
- 1:00 - 2:30 **OPTIONAL**
ProFACT Training (2 separate rooms)
SPANISH & ENGLISH: Prepare for the ProFACT Fertilizer applicator's test.
Presentation in Spanish by Dr. Raul Cabrera.
Presentation in English by Dr. Jim Murphy.
- 2:30 - 4:00 **ProFACT Exam (2 separate rooms)**
SPANISH & ENGLISH: English or Spanish
Written Exam Available
(Separate \$75 Exam fee required)
Dr. Jim Murphy, Rutgers University and Dr. Raul Cabrera, Rutgers University

SPORTS FIELDS PROGRAM

TUESDAY, DECEMBER 6, 2016

CORE SESSION 9:00 - 11:30 AM & LUNCH

5 Credits Core

- 9:00 - 9:30 Update on Pollinators and Pesticide Use and Safety *Tim Schuler, NJ State Apiarist*
- 9:30 - 10:30 Pesticide Toxicology "Pick Your Poison" *Mike Reed, Synatek*
- 10:30 - 11:30 NJDEP Update *Stephen Bross, NJ DEP*
- 11:30 - 1:00 **ALL ATTENDEES LUNCH**

Sponsored by STORR TRACTOR COMPANY NJTA's loyal friend, Mary Lou DesChamps, sponsors lunch. We thank her for all she does for the industry!



TORO
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NOTE: Credits listed are anticipated
BUT NOT CONFIRMED at print.

NOTE: Credits lists are anticipated
BUT NOT CONFIRMED at print.

SPORTS FIELDS SESSION 1:00 - 4:00 PM

1-4 PM: 4 Credits - 3B, 6B, 8C, PP2; 4 Credits - 13

- 1:00 - 2:00 NJDEP School IPM Program Update
Stephen Bross, NJ DEP
- 2:00 - 3:00 Developing Sports Field Specifications
Michael Boekholder, Philadelphia Phillies
- 3:00 - 4:00 Turfgrass IPM on Sports Fields and Grounds at Central Park
Gary Gentilucci, Central Park Conservancy

- 4:00 - 8:00 **TRADE SHOW and DINNER - DAY 1**
Grand Opening - Sponsored by SYNGENTA
"Dine Around" the Trade Show - Sponsored by BASF
Beverages - Sponsored by LA BAR GOLF RENOVATIONS

TRADE SHOW LEARNING SESSIONS

- 5:00 - 5:30 Not EAB: Other New and Destructive Insect Pests to Keep an Eye On
(1-3A Credit) *Sabrina Tirpak, Rutgers University*
- 6:30 - 7:00 Sustainable and Pesticide Free: Rain Gardens with Curb Appeal!
(1-3A Credit) *Michele Bakacs, RCE of Middlesex County*

WEDNESDAY, DECEMBER 7, 2016

SPORTS FIELDS SESSION 7:30 - 11:30 AM

- 7:30 - 8:30 Early Bird Sports Field Managers Networking Roundtable
- 8:30 - 9:00 Annual Business Meeting & Awards Presentation
- 9:00 - 9:30 The Year in Review
Brad Park, Rutgers University
- 9:30 - 10:30 Is Your Facility Safe?
Scott Bills, CSFM, Sports Fields Solutions
- 10:30 - 11:30 Turf and Skin Surface Care at Toms River Public Schools
Keith Fisher, Toms River Public Schools

11:30 - 2:30 TRADE SHOW 3A On The Floor

TRADE SHOW LEARNING SESSIONS

- 12:00 - 12:30 Not Boxwood Blight: Other New and Destructive Diseases that Might be Coming Your Way
(1-3A Credit) *Rich Buckley, Rutgers University*
- 1:30 - 2:00 Rust Never Sleeps: Common Springtime (Tree) Diseases in the Landscape
(1-3A Credit) *Nick Polanin, RCE of Somerset County*

SPORTS FIELDS SESSION 2:30 - 4:00 PM

2:30-5:00 PM: 1 Credit - 3B, 6B, 8C, PP2; 1 Credit - 13

- 2:30 - 3:30 Developing Sports Field Expectations, IPM and Budgeting through GIS
Kevin Mercer, Lawrenceville School
- 3:30 - 4:00 Minimizing Herbicide Applications Made to School Sports Fields and Grounds
Dr. Matt Elmore, Rutgers University

Sports Fields and Lawn & Landscape Joint Session: 2 ProFACT

- 4:15 - 5:15 Fertilizer Selection and Programming for Sports Fields, Lawns and Grounds
Dr. Cale Bigelow, Purdue University



THURSDAY, DECEMBER 8, 2016

CORE 1:00 - 3:00 PM

- 12:00 - 1:00 LUNCH ON YOUR OWN
- 1:00 - 3:00 **CORE Session 4 CORE Credits**
Protective Equipment for Pesticides: Don't Get Caught Exposing Yourself...
Pat Hastings, Rutgers University
- Personal Protective Equipment (PPE) is the weakest link in protecting yourself from pesticide exposure. This presentation will address interpreting pesticide label language for personal protective equipment, especially gloves and respirators. It will also address best management practices for proper selection and use of PPE.

ProFACT SESSION 1:00 - 4:00 PM

- 1:00 - 2:30 **OPTIONAL**
ProFACT Training (2 separate rooms)
SPANISH & ENGLISH: Prepare for the ProFACT Fertilizer applicator's test.
Presentation in Spanish by Dr. Raul Cabrera.
Presentation in English by Dr. Jim Murphy.
- 2:30 - 4:00 **ProFACT Exam (2 separate rooms)**
SPANISH & ENGLISH: English or Spanish Written Exam Available
(Separate \$75 Exam fee required)
Dr. Jim Murphy, Rutgers University and
Dr. Raul Cabrera, Rutgers University



2016 GREEN EXPO SPONSORSHIP OPPORTUNITIES

Sponsorship Opportunities have been well received by past Business Partners. We appreciate your consideration to promote your company. Sponsorships are available on a first come, first reserve basis. Previous sponsors have the first opportunity to renew at the prior level.

PLEASE MAKE YOUR SELECTION AND FAX TO: (973) 812-6529.

DATE: _____ CONTACT NAME: _____

COMPANY NAME: _____

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| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> PLATINUM TITLE SPONSOR (Exclusive) | \$12,000 | INCLUDES: • Sponsor Poster at all Events • Recognition during Awards Lunch & Opening Session & Trade Show floor • Name and Logo on Website and E-blasts • Company Services & Information Flyer in Attendee Packets. • 6 Complimentary Full Registrations |
| <input type="checkbox"/> MIX & MINGLE RECEPTION WEDNESDAY (Exclusive) RESERVED! GRASS ROOTS | \$10,000 | INCLUDES: • Sponsor Poster at events • Recognition during Awards Lunch & Opening Session & Trade Show floor • Recognition in printed programs • Name/Logo on Website and E-blasts. • 5 Complimentary Registrations |
| <input type="checkbox"/> GOLD SPONSOR (Exclusive) | \$7,500 | INCLUDES: Sponsor Poster at Events • Recognition during Awards Lunch & Opening Session & Trade Show floor • Recognition in printed programs • Name on Website and E-blasts • Company Services & Information Flyer in Attendee Packets. • 4 Complimentary Registrations |
| <input type="checkbox"/> SILVER SPONSOR (Multiples) – Beverages in the Trade Show RESERVED! LA BAR GOLF RENOVATIONS | \$5,000 | INCLUDES: Recognition on Posters & in Trade Show & in printed programs • Name on Website and E-blasts. • 3 Complimentary Registrations |
| <input type="checkbox"/> WELCOME LUNCH (Exclusive) RESERVED! STORR TRACTOR CO. | \$3,500 | INCLUDES: Recognition during Opening Session • Sponsor Poster displayed at Events • Recognition in printed Expo programs • Name on Website and E-blasts. • 2 Complimentary Registrations |
| <input type="checkbox"/> DINNER at TRADE SHOW TUESDAY (Multiples) RESERVED! BASF | \$2,750 | INCLUDES: Recognition during Opening Session • Sponsor Poster displayed at Events • Recognition in printed Expo programs • Name on Website and E-blasts • 2 Complimentary Registrations |
| <input type="checkbox"/> LUNCH in TRADE SHOW WEDNESDAY (Multiples) | \$2,500 | INCLUDES: Recognition during Trade Show • Signage & in printed programs • Name on Website and E-blasts. |
| <input type="checkbox"/> TRADE SHOW GRAND OPENING (Exclusive) RESERVED! SYNGENTA | \$2,500 | INCLUDES: Ribbon Cutting at Trade Show Entrance with Photo opportunities • Recognition on Signage & in printed programs • Name on Website & E-blasts. |
| <input type="checkbox"/> NOTE PADS (Exclusive) RESERVED! BAYER | \$2,250 | Promote Your Company Name & Logo on Notepads for every attendee packet. INCLUDES: • Company name on Signage & printed programs. • Name on Website and E-blasts. |
| <input type="checkbox"/> BREAKFAST or LUNCH THURSDAY (Multiples) | \$2,000 | INCLUDES: Recognition during our General Session • Signage • Recognition in printed programs • Name on Website and E-blasts |
| <input type="checkbox"/> CHARGING STATION (Exclusive) | \$1250 | INCLUDES: Recognition during our General Session • Signage • In printed programs • Name on Website and E-blasts. |
| <input type="checkbox"/> COFFEE BREAKS (Multiples) (Tuesday, Wednesday, Thursday) RESERVED! DOW AGROSCIENCES (Tues, GCSANJ Session) | \$850 | INCLUDES: Company name on Signage • Recognition in printed programs • Name on Website and E-blasts. SELECT BELOW: ____ TUES: Core Session • ____ WEDS: Education Sessions • ____ THURS: Education Sessions |
| <input type="checkbox"/> EDUCATION SESSIONS (Multiples) Golf -- Sports Field -- Lawn & Landscape) (Tuesday, Wednesday, Thursday) | \$750 | INCLUDES: Company name on Signage • Recognition in printed programs • Name on Website and E-blasts. WHICH DAY? ____ TUES ____ WEDS ____ THURS WHICH TRACT? ____ GOLF ____ SPORTS F ____ L & L |
| <input type="checkbox"/> FLYER INSERT (Multiples) Closing Date to mail to NJTA office: Nov 1, 2016 | \$700 | Send us 1200 flyers or brochures and we'll insert them in the attendee onsite packet. INCLUDES: Company name on Signage • Recognition in printed Expo programs |
| <input type="checkbox"/> GENERAL EVENT (Multiples) | \$550 | Want to support the GREEN EXPO but not sure how? Take a General Event sponsorship. INCLUDES: Company name on Signage • Recognition in Expo programs |



Green Expo 2016

New Jersey Turfgrass Association (NJTA) proudly presents the New Jersey GREEN EXPO Turf & Landscape Conference, in partnership with the Golf Course Superintendents Association of NJ (GCSANJ), in cooperation with Rutgers University/School of Environmental and Biological Sciences (SEBS), Sports Field Managers Association of NJ (SFMANJ), and NJ Green

ATTENDEE REGISTRATION • Tues, December 6–Thurs, December 8, 2016 • The BORGATA Hotel • Atlantic City, NJ

ATTENDEE INFORMATION. USE FOR ONE (1) ATTENDEE. PRINT CLEARLY. DUPLICATE FOR MORE ATTENDEES.

Today's Date _____ **Confirmation will be sent by E-mail**
 Name _____ E-mail _____
 Company Name _____
 Mailing Address _____
 City _____ State _____ Zip Code _____
 Ph # _____ Fax# _____

EARLY REGISTRATION FEES & CHOICES

CUT OFF DATE: Monday, November 14, 2016

After this date, OnSite Registration Available Only with Increased Prices.

First time attendee • NO Trade Show on Thursday

Member of: ☐ NJTA ☐ GCSANJ ☐ SFMANJ ☐ NJLCA

2016 MEMBERSHIP WILL BE VERIFIED

Join NJTA today and pay Member Rate.

| | NJTA • GCSANJ • SFMANJ • NJLCA Member Rate | Non-Member Rate | TOTAL FEE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------|-----------|
| THREE (3) DAYS: Education, Trade Show, Food Tuesday, Wednesday, and Thursday (*Non-Member Rate includes (1) INDIVIDUAL Membership for 2017) | \$ 225 | \$ 325* | \$ _____ |
| TWO (2) DAYS: Education, Trade Show, Food Circle Days: TUES WEDS THURS (No Trade Show) (*Non-Member Rate includes (1) INDIVIDUAL Membership for 2017) | \$ 175 | \$ 275* | \$ _____ |
| ONE (1) DAY: Education, Trade Show, Food Circle Day: TUES WEDS THURS (No Trade Show) | \$ 125 | \$ 175 | \$ _____ |
| SPOUSE BADGE: (Entire Event - No Education) Spouse Name: _____ | \$ 85 | \$ 115 | \$ _____ |
| TRADE SHOW ONLY: (Includes Food & Education Sessions on Trade Show Floor) | | | |
| Attendees BOTH TUESDAY AND WEDNESDAY | \$ 105 | \$ 125 | \$ _____ |
| Attendees TUESDAY OR WEDNESDAY | \$ 85 | \$ 105 | \$ _____ |
| Circle Day: TUES WEDS | | | |
| OPTIONAL: Thursday Afternoon 1:00 - 4:00 PM FERTILIZATION CERTIFICATION Training (N/C) & Exam: | \$ 75 | | \$ _____ |
| REGISTRATION Subtotal \$ _____ | | | |

TOTALS: REGISTRATIONS & MEMBERSHIP

REGISTRATIONS \$ _____
 MEMBERSHIPS \$ _____
TOTAL DUE \$ _____

Payment Information: Please Print Clearly

Check. Check Number # _____
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 *Payment cannot be processed without these security code numbers.
 Billing Address (# only if different) _____ Zip _____
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2017 NJTA MEMBERSHIP

____ Renewal ____ New Membership Year: January 1, 2017 - December 31, 2017

Join NJTA today and pay Member Rate.

- ☐ **Individual Member** (Included in 2 or 3 day Non-Member rate) **\$ 80.00**
☐ **BUSINESS Partners** (Mfg/Suppliers/Sod Producers) (Up to 4) **\$275.00**
☐ **TURFGRASS Partners** (Golf, Lawn, Landscaper) (Up to 3) **\$210.00**
☐ **Addl Partners** (Business or Turfgrass) **\$ 65.00 ea**

1 - NAME _____
 1 - Email _____
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 2 - Email _____
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 4 - Email _____

Tell us what category BEST fits your business:

- TURFGRASS:** ☐ Golf Course ☐ Lawn Care Applicator
☐ Landscape/Lawn Maintenance ☐ Cemetery ☐ Irrigation
☐ Parks & Recreation ☐ Schools & Athletic Fields
☐ Landscape Designer
BUSINESS: ☐ Manufacturer or Supplier ☐ Sod Producer

MEMBERSHIP Subtotal \$ _____

CHECK: Make Payable to NJTA • CREDIT CARD: Fax, Online, or Mail

NEW JERSEY TURFGRASS ASSOCIATION

25 US Hwy 46 W, Wayne, New Jersey 07470-6801

Phone: (973) 812-6467 • Fax: (973) 812-6529

F.E.I.N #: 23-7453656

Web: www.njturfgrass.org • Email: execdirector@njturfgrass.org

Registration form at: www.njturfgrass.org

Call 609-317-1000 for HOTEL RESERVATIONS

• **\$99.00 plus taxes Room Rate at The Borgata Hotel –**
 Use Group Code **GBJT16** for Borgata Classic Rooms.

• **\$119.00 plus taxes Room Rate at The Water Club –**
 Use Group Code **GTWCA16** for The Water Club Rooms.

Cut-off date: Monday, November 14, 2016.

Reservations made after this date are based on space availability and prevailing hotel rates.

Final Deadline Date for EARLY Registration fees is November 14, 2016. After this date, ONSITE Registration fees apply. Cancellations must be in writing and received prior to November 14, 2016, and will be assessed a \$50 cancellation/processing fee. NO REFUNDS will be granted after November 14, 2016. As of 9/1/16

Register ONLINE: www.njturfgrass.org • MAIL/FAX TOP COPY: to GREEN EXPO Office • Keep Second Copy • Date Recd _____

Field Days Silent Auction - A Winner!

The New Jersey Turfgrass Foundation Silent Auction, held in conjunction with the Rutgers Turfgrass Research Field Days on August 2 and 3, 2016, was another success that surpassed previous years.

We first want to thank the many business partners and individuals listed below who gave of their time, talents and products to make the auction a success:

Aquatrols, Kevin Collins; Rutgers Diagnostic Lab, Rich Buckley; PBI Gordon, John Patten; Sea Glass Fine Art Photography, Thomas Fallon; NJ Studios, Kramer Portraits; Bradford Renaissance Portraits; BASF, Dave Schell; BAYER, Jeff Weld; Grigg Brothers, John Wiblishauser; Syngenta, Lee Kozey and Dennis DeSanctis, Jr; Coombs Sod Farms, Kevin Coombs; FMC; and Tera Vita, Jay Turchi.

A big thanks to Mike Reed and the SynaTek team, along with Tom Armstrong and the SavaLawn team, who assisted with the set-up and the operations of the booths on both days. Many hands make the work easier. Your support was really appreciated!

We also want to thank the successful bidders; obviously without you, the Foundation would not be the beneficiary of your generosity. The total raised for both days was \$7435!

New canopies were used to separate and highlight the Silent Auction area. These brightly colored, logoed, canopies allowed the Silent Auction to “stand out” and “get noticed”. Thanks to the NJTA for purchasing the canopies, which will be used throughout the various NJTA/NJTF events in the coming years.

Lastly, many thanks to Jeff Weld for his hard work in setting up and monitoring the new option for purchasing products to be donated to the Silent Auction. Though Jeff’s work, anyone was able to visit Amazon.com, where from a suggested list of products, items could be purchased and donated to the Silent Auction.

by Matt Lindner, Field Day Silent Auction Chair

The first year of trying something new often can be a learning curve with this new way of purchasing products for donation. However, all of the items donated through the Amazon.com website did sell at the Silent Auction. That shows us that our members were engaged with this new method.

The use of Amazon.com for such events will continue to grow as a great provider of additional fun items such as games, coolers, cigar thermadors, gift baskets, and more to add to the traditional industry products and services that have always been a part of each day’s Silent Auction.

Thanks again to our sponsors, our buyers, and our committee for their hard work...it certainly all paid off for a successful Foundation Silent Auction 2016!



Meet a Board Member: **ROB JOHNSON**

Rob Johnson joined the New Jersey Turfgrass Association board in 2015, and GCSANJ Board of Directors as an Affiliate in December of 2012. Rob and his wife, Missi, reside in Coopersburg, Pennsylvania, with their seven-year-old daughter, *Riley*, three-year-old daughter, *Piper*, and four-month-old daughter, *Sage*.

Rob grew up in a golf oriented family that spans back five generations of Superintendents and Golf Professionals in this industry. He started his career working for his father in Philadelphia and pursued his Turf degree at Rutgers University. Following school, he spent five years as an Assistant Superintendent at Hamilton Farm Golf Club in Gladstone, New Jersey.

Opportunity brought Rob back as the Superintendent of the Militia Hill Golf Course at The Philadelphia Cricket Club where he was fortunate to stay for over five years before ultimately accepting the position as North Jersey Sales Consultant at Fisher and Son Company. He has enjoyed the past seven years at Fisher and is looking forward to what the future has to offer.

Rob is honored to be able to serve on this Board, and is looking forward to continuing to serve the New Jersey Turfgrass Association for many years to come.



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LET'S MAKE (A DEAL)

**2016 NJGIC
Silent Auction**
December 6-7 at Green Expo

Let's make a Deal at this annual fundraiser which supports the industry advocacy efforts of the New Jersey Green Industry Council!

The *Mighty* Oak? ‘Tis the Season for Bacterial Leaf Scorch (BLS)

By Nick Polanic
Rutgers Cooperative Extension of Somerset County
NJTA Board Member



Hiding in plain sight. So often Mother Nature can play tricks on us as land managers, tree experts, nursery and landscape specialists, and especially homeowners. The late summer / early fall seasonal browning of tree canopies is often attributed to drought conditions, or extremely hot weather, or even just the normal changes in leaf coloration as trees approach winter. But this is where and when we who should know better need to identify the ‘usual’ from the ‘unusual’ and target our efforts on controlling or at least minimizing the effects of Bacterial Leaf Scorch on our prized possessions – oaks.

Bacterial Leaf Scorch (BLS), caused by the bacterium *Xylella fastidiosa*, clogs the xylem, the cells that transport water between the roots and the leaves of a tree and causes the leaves to scorch, which leads to branch dieback. The overall decline of an affected tree can last for several years, but the tree will eventually die. This slow killer can almost be called the “Dutch Elm Disease of Oaks” since just like DED of elms, it will clog the “plumbing” in the tree to the point of no return and the tree in question will have to be taken down. BLS is spread tree to tree aerially by leaf hoppers that are so numerous in a single tree that any pesticide intervention is unrealistic, and there is some conjecture that underground root grafts may also play a role in disease transmission tree to tree.


Our over-reliance on oaks as a popular street tree in NJ has been repeated over the years in our landscapes and golf courses, as seen above. A tree can harbor a BLS infection and re-foliate for several years, but eventually the stress of the disease and the resulting branch dieback will make the tree more susceptible to other pathogens and insects which will speed the tree’s decline. Currently, there is no known cure for BLS. Injecting diseased trees with antibiotics can suppress symptom development, but cannot eliminate the bacteria. The injections are expensive, must be repeated annually, put additional stress on affected trees, and result in only marginal success.

The New Jersey Forest Service recommends that affected trees be watered and affected branches pruned off well below the symptomatic leaves. As older or severely declining oaks are being taken down along our streets and golf courses, attention to disease resistant alternative plantings should be a priority.

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 @SyngentaTurf #Time4Velista



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Phone: 973.812.6467 • Fax: 973.812.6529

New Jersey Turfgrass Association MEMBERSHIP APPLICATION

Membership shall be open to all interested in the development and maintenance of turf.
It shall represent all facets of the turf industry, including persons or organizations
that grow or manage turf, or supply materials and services to the Green Industry.

JOIN ONLINE: www.njturfgrass.org

• BENEFITS OF MEMBERSHIP •

- Savings on Green Expo & Field Days Registration fees
- Opportunities to earn Pesticide Applicator License Credits
- *Clippings* Quarterly Magazine
- Membership Directory
- Outreach & Education impact in Trenton
- Support of Rutgers University's Turf Research and turf programs
- Marketing opportunities in NJTA publications
- Participation in events that raise scholarships for the NJ Turfgrass Foundation
- Website: www.njturfgrass.org

Membership Category Types (Annual Dues based on calendar year: January 1 – December 31)

All members receive separate mailings of NJTA publications and meeting notices.

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <input type="checkbox"/> BUSINESS PARTNER (Manufacturer/Supplier or Sod Producer) <i>UP TO FOUR individuals covered in this membership fee.</i> | \$275.00 |
| <input type="checkbox"/> ADDITIONAL BUSINESS PARTNER (5 or more) | \$65.00 each |
| <input type="checkbox"/> TURFGRASS PARTNER (Golf Course, Lawn Care, Landscaper) <i>UP TO THREE individuals covered in this membership fee.</i> | \$210.00 |
| <input type="checkbox"/> ADDITIONAL TURFGRASS PARTNER (4 or more) | \$65.00 each |
| <input type="checkbox"/> INDIVIDUAL MEMBER (ONE Business or Turfgrass Partner) | \$80.00 |
| <input type="checkbox"/> STUDENT MEMBER (Those enrolled in turf-related educational programs.) | \$20.00 |

Member Information

Name # 1 _____ Title _____
Association/Company _____
Address _____
Is Address? _____ Business _____ Home _____
City _____ State _____ Zip _____
Phone _____ Fax _____
Email _____ Website _____

Name # 2 _____ Title _____
Association/Company _____
Address _____
Is Address? _____ Business _____ Home _____
City _____ State _____ Zip _____
Phone _____ Fax _____
Email _____ Website _____



25 US Highway 46 West • Wayne NJ 07470
Phone: 973.812.6467 • Fax: 973.812.6529

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It shall represent all facets of the turf industry, including persons or organizations
that grow or manage turf, or supply materials and services to the Green Industry.

JOIN ONLINE: www.njturfgrass.org

| | |
|---------------------------------------------|-----------------------|
| Name # 3 _____ | Title _____ |
| Association/Company _____ | |
| Address _____ | |
| Is Address? _____ Business _____ Home _____ | |
| City _____ | State _____ Zip _____ |
| Phone _____ | Fax _____ |
| Email _____ | Website _____ |

| | |
|---------------------------------------------|-----------------------|
| Name # 4 _____ | Title _____ |
| Association/Company _____ | |
| Address _____ | |
| Is Address? _____ Business _____ Home _____ | |
| City _____ | State _____ Zip _____ |
| Phone _____ | Fax _____ |
| Email _____ | Website _____ |

Select Business Category that Best Describes Your Business/Profession

| | |
|-----------------------------------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/> Manufacturer/Supplier • BUSINESS | <input type="checkbox"/> Sod Producer • BUSINESS |
| <input type="checkbox"/> Golf Course • TURFGRASS | <input type="checkbox"/> Lawn Care Applicator • TURFGRASS |
| <input type="checkbox"/> Landscape/Lawn Maintenance • TURFGRASS | <input type="checkbox"/> Cemetery • TURFGRASS |
| <input type="checkbox"/> Irrigation Installation • TURFGRASS | <input type="checkbox"/> Parks and Recreation • TURFGRASS |
| <input type="checkbox"/> Schools & Athletic Fields • TURFGRASS | <input type="checkbox"/> Architect • TURFGRASS |
| <input type="checkbox"/> Student – IN TURF RELATED PROGRAM | <input type="checkbox"/> Professionals, University, Ext Offices • HONORARY |

Payment Information (Required) •

MAIL OR FAX TO NJTA Office

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Type of Credit Card: | SIGNATURE: |
| Card Number: | Name on Card: |
| Expiration Date: (MM/YY) | Street Address: |
| 3 Digit Security Code: | City/State/Zip: |
| Check By Mail: (Payable to NJTA) | PURCHASE ORDER #: |
| TOTAL MEMBERSHIP AMOUNT: | \$ _____ |
| NJ TURFGRASS FOUNDATION CONTRIBUTION: (This portion is tax-deductible) Contributions support Turfgrass Research & Scholarships | \$ _____ |
| TOTAL AMOUNT DUE: | \$ _____ |

*Since 1970, New Jersey Turfgrass Association's (NJTA) Mission is to promote the Turfgrass Industry
and enhance the environment through education, professionalism, leadership,
and our partnership with Rutgers, The State University of New Jersey.*

2016 C A L E N D A R

**Tuesday - Thursday,
December 6 - 8, 2016
GREEN EXPO
Borgata Hotel, Atlantic City NJ**

2017 C A L E N D A R

**Monday, May 8, 2017
Rutgers Turfgrass Research
GOLF CLASSIC
Fiddler's Elbow Country Club
Bedminster, NJ**

**Tuesday, July 25, 2017
Rutgers Turfgrass Research Field Day 1
Golf & Fine Turf
Hort Farm 2, N. Brunswick NJ**

**Wednesday, July 26, 2017
Rutgers Turfgrass Research Field Day 2
Lawn, Landscape & Sports Fields
Adelphia Farm, Freehold NJ**

**Tuesday - Thursday
December 5 - 7, 2017
GREEN EXPO
Borgata Hotel, Atlantic City NJ**

Rutgers Extension Offices & Numbers

| | |
|--------------------------|----------------|
| RCE of Atlantic County | (609) 625-0056 |
| RCE of Bergen County | (201) 336-6780 |
| RCE of Burlington County | (609) 265-5050 |
| RCE of Camden County | (856) 216-7130 |
| RCE of Cape May County | (609) 465-5115 |
| RCE of Cumberland County | (856) 451-2800 |
| RCE of Essex County | (973) 228-3179 |
| RCE of Gloucester County | (856) 307-6450 |
| RCE of Hudson County | (973) 353-5525 |
| RCE of Hunterdon County | (908) 788-1339 |
| RCE of Mercer County | (609) 989-6830 |
| RCE of Middlesex County | (732) 398-5262 |
| RCE of Monmouth County | (732) 431-7260 |
| RCE of Morris County | (973) 285-8304 |
| RCE of Ocean County | (732) 349-1246 |
| RCE of Passaic County | (973) 305-5740 |
| RCE of Salem County | (856) 769-0090 |
| RCE of Somerset County | (908) 526-6293 |
| RCE of Sussex County | (973) 948-3040 |
| RCE of Union County | (908) 654-9854 |
| RCE of Warren County | (908) 475-6505 |

*Please notify the NJTA office if any of the
above numbers have changed. Thank you.
973-812-6467 • execdirector@njturfgrass.org*



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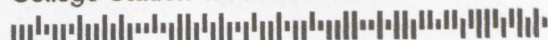
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The Rutgers Plant Diagnostic Lab

provides accurate and timely diagnoses of plant problems:

- ◆ Disease and Insect Pest Diagnosis
- ◆ Plant and Weed Identification
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RUTGERS

New Jersey Agricultural
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1766-2016

RUTGERS 250

The Rutgers Soil Testing Lab

performs chemical and mechanical analyses of soils:

- ◆ Landscape - fertility, suitability, topsoil evaluation
- ◆ Farm - fertility, pre-sidedress nitrate, full farm
- ◆ Organic Media - greenhouse, soilless, compost
- ◆ Sports Turf - fertility, sand-based root zone
- ◆ Technical - permeability and ecological
- ◆ Individual / Specialized Tests
- ◆ Irrigation Water - pH, salts, nitrate-nitrogen, phosphorus, iron

<http://njaes.rutgers.edu/soiltestinglab/> or call 848-932-9295 or email soiltest@njaes.rutgers.edu for more details.