

new jersey turfgrass association

Green
World

clippings



Issue 3: 2015 | VOL 90

Registration Open!

GREEN EXPO Turf & Landscape

Tuesday, December 8 – Thursday, December 10, 2015

Science-Based Education • Credits • Trade Show

Fellowship • Business Contacts

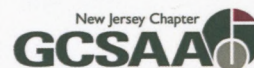
Silent Auction • Networking

Registration Information

WWW.NJTURFGRASS.ORG



RUTGERS
New Jersey Agricultural
Experiment Station



2015 Patron Directory

BASF

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David.Schell@basf.com

BAYER

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West Milford, NJ 07480
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jeff.weld@bayer.com

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SYNGENTA

Dennis E. DeSanctis Jr.
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Plant Protectants
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Dennis.DeSanctis@syngenta.com

President's Message

Don't miss the forest for the trees (or the lawn for the turf blade)

As I near the last yearly quarter of my tenureship of service on the Executive Board of the Association, I am looking back over the past couple of years to gauge the direction we have come from and to help continue a seamless transition to the future. When we are working day in and day out, it's all too easy to overlook all of the collective accomplishments. There is always the next goal to achieve, next task to accomplish, or the next direction to steer. But when we do take some time to reflect, it's quite impressive to see everything that has been done over the past several years.

To name a few: we now have a solid investment policy to ensure that the funds entrusted to the Association are directed to meeting the mission of the Association; we now have a strategy to ensure we effectively meet our mission; we have reached attendance goals at the 3 main events each year; we have reached significant donation records to the Rutgers Turfgrass Science Department; we have established a very healthy corpus for future offerings; we have successfully moved our ever popular Green Expo to a great venue; and we have reached anniversary milestones with the Rutgers Field Days, Rutgers Golf Classic and the NJ Green Expo. The list goes on much longer and we have mentioned several key milestones quite a bit over the past several years.

Putting together a list of successes is always great to do every now and then; the sense of accomplishment that comes from such lists is always a great way to reinvigorate drive. However, that doesn't really do justice to what these "success lists" signify.

When we take a look at all of these accomplishments from a higher viewpoint, we see how they intertwine and are met at various spots along a roadway. Membership goals are needed to truly encompass the collective voice of the industry. Funding and donation goals are necessary to ensure that the Association accomplishes its mission. But more important than these individual successes, the combination of a well rounded voice of the industry along with mission accomplishment allows the Association to meet the needs of its membership and drive educational and research needs of the industry; all while creating top-of-the-line, powerful networks between industry professionals

Shannon Sked, NJTA President



throughout. After all, that is where value is created by the NJTA.

And it's in the "value" that organizations find themselves well established. The deeper, underlying reason for any organization can be found in the value it creates. So we have to ask ourselves; are we, as a collective of the Association, creating meaningful value for the industry? And that can be answered by witnessing the events that unfold where we gather. I would argue that the NJTA affords its membership one of the best series of educational and networking venues available. We also have fostered a strong partnership with Rutgers, so we can help drive applicable research. And we have solidified a great working collaboration with our Allied Associations to ensure that we are a part of the greater industry support cause. Together, these values in education, research, networking, and common cause, create a high-return deliverable to each member.

So where do we go from here? Well, there is always the next goal to reach - membership goals, financial and giving goals, event goals, etc. But from a higher perspective, I see an organization which has positioned itself to be a necessary part of the industry as a whole; one that can address the needs of the collective membership with dedication, drive and dignity. The NJTA is here because of each and every one of its members, and it exists to ensure it creates value to those same members it needs. Because of that, wherever we go from here, NJTA's direction is destined to be for the good of the industry and the membership as a whole - and that is more of a success than any individual goal attained.

*Shannon Leif Sked: BCE, SQF
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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..

NJTA
25 US Highway 46 West
Wayne NJ 07470-6801
(973) 812-6467
execdirector@njturfgrass.org

STEPPING INTO EMPTY SPACE

*by Cece Peabody, MAT, CMP,
NJTA Executive Director*



If I could stand in an open airplane doorway three miles above the ground and step into empty space, then I could do almost anything. I did one of the most daring (some called me 'nuts' and 'crazy') things in my life and went skydiving with my son. It actually was a surprisingly safe process -- waiting, watching, training, an airplane ride, and then the diving.

Thinking back on this recent adventure, I can break the experience down into four phases. First, there is anticipation: riding up into the sky in a small plane, sitting on the bench with others, and waiting my turn. The second phase is the actual jump: the fear of stepping out into the sky and letting go of the plane. Third, after the anticipation of the jump, the slight jolt of the jump and the relieving tug of an opening parachute, comes the wait. This is the most peaceful part of the jump. I remember feeling like I was floating in the air, like I was being buoyed by the force of the wind from below, and thinking, "Wow, the world looks amazing from up here, and this is totally awesome!" You can toggle left or right, maybe do a little circle or whirlingig, but you really just wait, watch the earth views, and keep your eyes on the landing ground. Finally, fourth and last, comes the landing. After a seemingly endless time of sitting on top of the world, you focus and prepare for the landing. If you have a good instructor with you (and I did, thank you James), you'll pretty much glide to the ground and then hit the ground running with your parachute before you sit.

I anticipated big things with the dive, I calmed the nerves and gathered the courage to let go of the plane, and I felt a tug of assurance at my back, with the opening of a canopy above. I was trying not to let my impatience ruin the view before focusing on landing, hoping it wouldn't come too quickly or too abruptly. And when the landing did come....I hit the ground running.

I can look at life in a similar way: that we're never too old to learn or try something new, to step out of an airplane and know that the anticipation and the jump are well worth the landing. Once you've conquered that -- then you can keep running for the next adventure.

William Feather says it well: "*One way to get the most out of life is to look upon it as an adventure.*"

Summer Rutgers Field Days - Changes for Success

by Craig Tolley, County College of Morris

As the days are starting to cool off and the nights are growing longer, I have time to look back and reflect on this year's summer field days. First off, the NJTA would like to thank the Rutgers Master Gardeners for helping out this year serving as our field guides and filling in when needed to help keep each day running smoothly. The weather was very hot and humid, but dry giving us a wonderful day to view the research plots; it was great weather for pathogens.

Even with the heat and humidity there was a great turn out. We are proud to have set a new record for combined attendance, 849 people over the two days, drawing attendees from 21 states and 2 countries. We had individuals come in from as far away as California, Canada, and Switzerland. The far reach and draw of our field days sends a clear statement to the reputation and high standing of the Rutgers Turfgrass Research Center (as well as the quality of the field day itself).

The field days allow for a great opportunity to get to meet the professors and get their first hand observations and advice. This year we had the chance to once again listen to Rutgers professors, graduate students, and staff discuss their current research, which is pertinent to growing turfgrass in New Jersey and the surrounding states. Wear on various species of turf is a regular at these field days and it was nice to see the detail taken by Rutgers to produce a realistic traffic simulation on the plots, using two different types of machines to produce real world results. The turfgrass mix studies were also interesting to see, such as how a small amount of bluegrass can take over a mix so quickly.

This year, with the site improvements completed, we were able to return the Rutgers Adelphia farm for the Lawn, Landscape, and Sports Field day thus allowing all that attended on the 29th to return to this farm for the first time in two years. Back at the 'old' site there was space for an expanded Trade Show (held by the Sport Field Managers Association of New Jersey) and equipment demonstrations incorporated in the field tours.

Attendees were provided the opportunity to not only learn about the latest research updates, but also get to view some of the newest equipment available for turf maintenance.

Rutgers Turfgrass Research Field Days

The field day committee would like to extend our deepest appreciation and sincerest gratitude to all the sponsors who helped support the field days. We would also like to extend our thanks to everyone who

took part in the silent auction, those who donated goods and the bidders. The proceeds of the auction all go to directly support the NJ Turfgrass Foundation which in turn helps support research at the Rutgers Turfgrass Center. Finally I would like to thank all those that filled out our survey during lunch, to help us further improve the future field days. We are already working on next year, and looking forward to seeing everyone again (let's see if we can break that attendance record!!)

Mark your calendars the 40th Green Expo is coming soon (December 8 -10, 2015) back at The Borgata in Atlantic City, NJ.



Applied Turfgrass Research from Rutgers, the State University, and the New Jersey Turfgrass Association

Global climate change is a complex phenomenon characterized by wide-spread changes in weather patterns the world over. Seasonal temperature extremes as well as precipitation events have changed considerably since the pre-industrial era. Many researchers agree that a primary driving force contributing to climate change is the steady increase in atmospheric carbon dioxide (CO₂) concentrations, currently at unprecedented levels. There has been considerable progress made over the past half-century regarding the response of agronomic and forest plant species to elevated CO₂ concentrations, whereas minimal efforts have focused on turfgrass species. Moreover, the interactive effects of elevated CO₂ concentrations and abiotic stresses (drought, heat, salinity...etc.) on various aspects of turfgrass management remain largely unknown and deserve further investigation. Our lab has recently investigated the interaction of elevated CO₂ and several major abiotic stresses (heat, drought, and salinity) to determine whether elevated CO₂ is detrimental or beneficial for plant tolerance to those stress factors. Results which detail the wide array of turfgrass physiological responses to elevated CO₂ under various stress conditions are beginning to suggest potential implications for future generations of turfgrass managers.

One of the most consistent responses of cool-season turfgrass species exposed to elevated CO₂ concentrations is a substantial increase in overall growth rates and net accumulation of root and shoot biomass. There are several mechanisms by which elevated CO₂ stimulates plant growth, the most well-known mechanism being enhanced photosynthetic rates driven by the abundant carbon supply. The greatest enhancement of photosynthesis by elevated CO₂ is typically noted in young, actively-growing leaves of seedlings or in new leaves formed following reversal of plant dormancy, whereas the promotive effects of elevated CO₂ tend

Turfgrass Stress Tolerance and Management in Response to Elevated Atmospheric Carbon Dioxide

Patrick Burgess (Ph.D. candidate) and Bingru Huang (Distinguished professor)

*Department of Plant Biology and Pathology,
Rutgers University*

to diminish as leaves mature and approach natural senescence. Therefore, we can hypothesize that an elevated CO₂ environment may promote faster stand establishment or accelerate regrowth of plants following episodes of stress, though both of these hypotheses still need to be empirically confirmed. Maintaining adequate photosynthetic rates is a key component of stress tolerance and serves to delay the visual decline in turfgrass stands commonly noted during summer months. Our research in controlled-climate settings has shown that CO₂-enrichment effectively mitigates photosynthetic inhibition preempting the visual decline of various turfgrass species during prolonged heat, drought, and salinity stress. Elevated CO₂ promotes drought tolerance in various turfgrass species, such as creeping bentgrass and kentucky bluegrass, through changes to water relations and rooting depth, as well as induction of stomatal closure for water conservation. Increasing leaf photosynthetic rates in conjunction with decreased water loss makes turfgrass plants more water-use efficient at elevated CO₂ concentrations during drought periods.

Furthermore, it is a well-known fact that certain turfgrass species shift resources from shoot to root growth as soil moisture becomes limited, which effectively enhances rooting depth to seek out water deeper in the profile. Elevated CO₂ enhances this drought response and significantly increases the proportion of roots to a greater extent than plants at ambient CO₂ concentrations, thereby exploiting a larger soil volume for water acquisition during drought periods. . There are also many CO₂-induced changes at the biochemical level which delay stress symptoms in turfgrass including heightened antioxidant capacity to mitigate cellular oxidative damages and increased abundance of stress-protective proteins which serve to maintain proper protein function.

Continued on next page



Applied Turfgrass Research from Rutgers, the State University, and the New Jersey Turfgrass Association

Our most recent research also suggests effects of elevated CO₂ on the growth habits of turfgrass plants. Creeping bentgrass grown at elevated CO₂ concentrations displayed increased tillering and decreased stolon count per plant, though individual stolons were significantly longer contributing to greater canopy density as compared to plants at ambient CO₂ concentrations. Canopy density is among the most important visual characteristics of managed turfgrass stands, along with color and uniformity, and increased density by elevated CO₂ may improve performance during game play or enhance recuperative ability following physical damage (i.e. divots). Alternatively, increased density may imply potentially faster rate of thatch accumulation, thereby requiring more frequent or aggressive thatch control to maintain high-quality playing conditions, though this is a hypothesis which needs to be confirmed through a series of experiments.

Global climate change will undoubtedly redefine most aspects of life on this planet with no exception being spared towards future generations of turfgrass managers. Despite the abundant knowledge regarding CO₂-response of agronomic and forest species, there is limited information which can be readily applied to the unique growing system of managed turfgrass. The early phases of research, though still in infancy, have provided valuable insights into the interactions between elevated CO₂ concentrations and turfgrass responses to abiotic stresses. As research progresses forward, shedding light on the true nature of turfgrass response to elevated CO₂, we may soon realize that turfgrass management of the future will be very different than that of what we know today.

Sources:

Burgess, P. and B. Huang, 2014. Growth and physiological responses of creeping bentgrass (*Agrostis stolonifera*) to elevated carbon dioxide

www.njturfgrass.org

Turfgrass Stress Tolerance and Management in Response to Elevated Atmospheric Carbon Dioxide

Patrick Burgess (Ph.D. candidate) and Bingru Huang (Distinguished professor)

Department of Plant Biology and Pathology,
Rutgers University

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Huang, B and Y. Xu. 2015. Cellular and molecular mechanisms for elevated CO₂-regulation of plant growth and stress adaptation. Crop Sci. 55:1405-1425. doi:10.2135/cropsci2014.07.0508

IPCC, 2007. Climate change: Fourth assessment report of the intergovernmental panel on climate change. Cambridge University Press, London. doi:10.5860/choice.45-5006

Yu, J., Z. Yang, D. Jespersen, and B. Huang. 2014. Photosynthesis and protein metabolism associated with elevated CO₂-mitigation of heat stress damages in tall fescue. Environ. Exp. Bot. 99:75-85. doi:10.1016/j.envexpbot.2013.09.007



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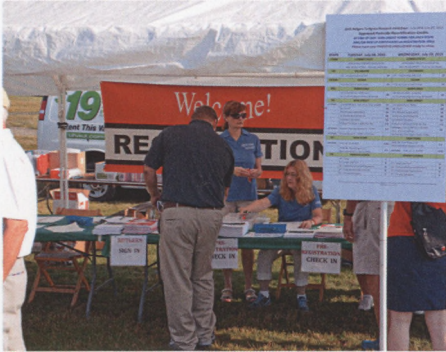
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2015 Turfgrass Research Field Days





Pictures Courtesy of Matt Sweatlock, NJTA Past President





**The New Jersey
Green Industry Council
hosts a fabulous
Silent Auction on both days during
the Trade Show at the GREEN EXPO
in Atlantic City.**

*Be the highest bidder and win memorabilia, great gifts,
and enjoy knowing you are helping this umbrella
organization whose efforts help everyone
in the turfgrass industry.*

Be a bidder! Be a Winner!

**2015 NJGIC
Silent Auction
December 8-9 at Green Expo**

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

Expo Returns to Borgata!

by Chris Carson, Expo Chairman

Mark December 8-10 on your calendar, and plan on joining your green industry friends at the Borgata Hotel in Atlantic City for the **40th Annual Green Expo**. After a move last year to this extraordinary facility, and upon reviewing the many positive comments we received about this move, we have signed a contract that makes Borgata our new home... and the program is more exciting than ever!

The education program is filled with speakers of the highest quality, who will be presenting information that will be immediately valuable to all of the turf and green industry disciplines. Whether you are new to the business or a seasoned veteran, there will be speakers and topics that will be of great interest to you.

Need credits? We've designed our sessions to provide a wide array of pesticide applicator recertification credits, and fertilizer application credits will be available as well. In fact, if you work out the price per credit as a value proposition, you will find that our show is just about the least expensive way to maintain your credentials.

Don't forget that our show is much more than great education... we offer many fun networking and social opportunities as well, from the show floor festivities to the hospitality suites and several private gatherings, there will be plenty for you to enjoy at this first class facility. And to make the event as affordable as possible, we have negotiated a low \$89 per night room rate. Please pay attention to the cutoff dates for rooms, as last year we had a number of people who attempted to register past that date and were disappointed.

New this year for our golf attendees is a special seminar on Tuesday morning by internationally known Henry DeLozier, who will be focusing on the business side of golf. We have some terrific superintendent speakers as well, including Steve Rabideau from Winged Foot and Bill Spence from The Country Club, who will share important lessons they've learned in their careers.

The Sports Field Managers will be well represented as always, as will our friends in the lawn and landscape field, and we encourage you to take a good look at the brochure so that you can plan your visit, ensure that you make it to the sessions that most interest you, and collect the valuable recertification credits you need.

Many have shared with us that the lunches and dinner on the show floor -and various other refreshments- offer fantastic added value, and the hallway conversations and idea-sharing are sometimes where the best new initiatives are discovered for your operation.

We have many sponsors lined up to help us defray the cost of running this large event. Without their help, your cost to attend would be much higher, so please thank them when you get the opportunity. They are truly the unsung heroes of our profession.

So look for the program brochure in your mail soon, or find it online at www.njturfgrass.org, and come join more than a thousand of your friends at the Borgata in Atlantic City. We look forward to seeing you there!



GOLF PROGRAM

TUESDAY, DECEMBER 8, 2015

CORE SESSION 9 - 11:30 AM & LUNCH

- 9:00 - 11:30 AM CORE SESSION** 5 Credits Core
- 9:00 - 9:30 **The Bees, The Turf, and The Rules of the Game**
Dominick Mondy, Exec Director, NJ Green Industry Cncl
- 9:30 - 10:30 **NJDEP Pesticide Control Program Update**
Stephen Bross, NJ DEP
- 10:30 - 11:30 **What Went Wrong in my Spray Tank?** *Dr. Mike Agnew, Syngenta*

11:30 AM - 1:00 PM ATTENDEES LUNCH

Sponsored by
STORR TRACTOR COMPANY

We thank NJTA's loyal friend, **Mary Lou DesChamps** for sponsoring Lunch. We thank her for all she does for the industry!



NEW!
8:00 - Noon
GCSANJ
Session
The Business
of Golf!
Henry DeLozier
This is a Must
Attend for ALL
Superintendents!

NOTE: Credits listed next to all sessions are anticipated BUT NOT CONFIRMED at print.

GOLF SESSIONS 1-4 PM

- 1-4 PM: 2 Credits - 3B, 6B, 8C, PP2 • 1-3A**
- 1:00 - 2:00 **Using Wetting Agents on the Golf Course**
Dr. Keith Karnok, University of Georgia, Emeritus
- 2:00 - 2:30 **GCSANJ Awards & Chapter News!**
- 2:30 - 3:00 **Adapting to Your Changing Membership: 31 Years at The Country Club** *Bill Spence, The Country Club*
- 3:00 - 3:30 **Emerald Ash Borer and Other Pest Issues on Trees**
Dr. Jason Grabosky, Rutgers University
- 3:30 - 4:00 **Insecticide Resistance in ABW: How to Avoid It and How to Deal With It** *Dr. Albrecht Koppenhöfer, Rutgers*
- 4:00 - 8:00 PM TRADE SHOW and DINNER - DAY 1**
Grand Opening - Sponsored by **SYNGENTA**
"Dine Around" the Trade Show - Sponsored by **BASF**
Beverages - Sponsored by **LaBar Golf Renovations**
TRADE SHOW LEARNING CENTER:
- 5:00 - 5:30 PM **Boxwood Blight Revisited** *Rich Buckley, Rutgers (1-3A)*
- 6:30 - 7:00 PM **Green & Brown of Sunscreen** *Jennifer Wignall, Organic Bronzing*
- 8:00 PM - 12:00 AM Hospitality Suite - Immersion Spa, Water Club**
Sponsored by **Seeton Turf Warehouse**

WEDNESDAY, DECEMBER 9, 2015

GOLF SESSIONS 9 - 11:30 AM

- 9 - 11:30 AM: 1 Credit - 3B, 6B, 8C, PP2**
- 8:30 - 9:00 **Cold Temperature Injury: A Loaded Deck** *Jim Skorulski, USGA*
- 9:00 - 10:45 **Green Reconstruction Panel - Followed by Q & A**
• **The Winged Foot GC Greens Rebuild Project**, *Steve Rabideau, Jr.*
• **Rebuilding Greens After a Devastating Winter**, *Keith Bartlett, St. Georges CC*
• **How to Take Your Greens Off of Life Support**, *Dave Oatis, USGA*
• **How to Select the Best Bentgrass for Your Application**, *Dr. Stacy Bonos, Rutgers University*
- 10:45 - 11:30 **Tournament Preparation Through the Years**
Bill Spence, The Country Club
- 11:30 - 2:30 TRADE SHOW and LUNCH - DAY 2**
TRADE SHOW LEARNING CENTER:
- 12:00 - 12:30 **Sun Safety...** *Jennifer Wignall, Organic Bronzing*
- 12:45 - 1:15 **Emerald Ash Borer and NJ: Perfect Together**
(3A - 2 Credits) Rich Buckley, Rutgers University
- 1:45 - 2:15 **Core and ProFact - 1 each: Select the Right Tool for the Job** *Joe Clark, Rutgers University*

GOLF SESSIONS 2:30 - 5 PM

- 2:30 - 5:00 PM: 3 Credits - 3B, 6B, 8C, PP2 • 1 Core**
- 2:30 - 3:00 **Emerging Technology In Golf Course Management** *Dana Lonn, Toro Corporation*
- 3:00 - 3:30 **Bunker Construction: Methods, Costs, and Expectations** *Adam Moeller, USGA*
- 3:30 - 4:00 **Reduced Risk Disease Control: How to Do It and Why It's Important** *Dr. Paul Koch, U of WI, Madison*
- 4:00 - 4:30 **New Herbicide Options for Golf Course Turf**
Steve McDonald, Turfgrass Disease Solutions
- 4:30 - 4:35 **GCSAA Update** *John O'Keefe, President, GCSAA*
- 4:35 - 5:00 **Aerification, Grooming, Organic Matter Management and Surface Conditioning: Why, How, and When** *Dr. Jim Murphy, Rutgers University*
- 5:00 - 7:00 PM **MIX & MINGLE Reception** *28 West, Casino Level*
Sponsored by **GRASS ROOTS**
- 8:00 - 11:00 PM **GCSANJ SOCIAL** *The Water Club, Indoor Pool*

THURSDAY, DECEMBER 10, 2015

GOLF SESSIONS 8 AM - NOON

- 8 AM - NOON: Part 1: 3 - 3B, 6B, 8C, PP2 • Part 2: 4 - 3B • 1 ProFACT**
- 8:00 - 9:45 AM RUTGERS SEMINARS -- PART 1 (3 - 3B Credits)**
Come to Part 1 or Part 2 or BOTH for the most credits!
- 8:00 - 8:45 **Snow Mold Control: What Works and Why**
Dr. Paul Koch, University of Wisconsin, Madison
- 8:45 - 9:15 **The Importance of Potassium in Turf Disease Control**
Chas Schmid, Rutgers University
- 9:15 - 9:45 **How the Turfgrass Industry Has Changed, and What to Expect in the Future** *Dr. Bill Meyer, Rutgers University*
- 9:45 - 10:00 **BREAK**
- 10:00 - 12:00 PM PART 2 (4 - 3B Credits)**
- 10:00 - 10:40 **Troublesome Disease Review: Pythium and Other Difficult to Control Diseases** *Steve McDonald, Turfgrass Disease Solutions*
- 10:40 - 11:20 **BMPs for Anthracnose on Annual Bluegrass Greens: What 12 Years of Rutgers Research Have Taught Us**
James Hempfling, Rutgers University
- 11:20 - 12:00 **What's New on the Horizon: Recently and Soon To Be Released Fungicides for Use on Golf Courses**
Dr. Bruce Clarke, Rutgers University
- 12:00 - 1:00 **LUNCH ON YOUR OWN**

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

- 1:00 - 3:00 PM **CORE Session** 4 Credits Core
- Core Jeopardy Game Show** *Joe Clark, Rutgers Univ*
Joe Clark from Rutgers will present his popular, interactive core information in a game show format. Joe's use of technology to allow audience participation has consistently created a positive buzz in the room, while also delivering important information that all commercial pesticide applicators need to maintain licenses and to perform applications safely.
- OPTIONAL SPANISH ONLY**
- 1:00 - 2:30 **ProFACT - Training for Professional Fertilizer Applicators.** Here's a chance to prepare your Spanish speaking employees for the ProFACT Fertilizer applicator's test. Presented in **Spanish only**, the session ends with taking the test itself. Training qualifies professionals to take certification exam. **Certified Fertilizer Applicators earn 3 ProFACT credits for sitting in on this training.**
Drs. Jim Murphy and Raul Cabrera, Rutgers University
- 2:30 - 4:00 **SPANISH & ENGLISH ProFACT Exam for Certified Fertilizer Applicators (Separate \$75 Exam fee required)**
Drs. Jim Murphy and Raul Cabrera, Rutgers University

LAWN & LANDSCAPE PROGRAM

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Dr. Mike Agnew, Syngenta

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Sponsored by **STORR TRACTOR COMPANY**

NJTA's loyal friend, **Mary Lou DesChamps** sponsors lunch. We thank her for all she does for the industry!



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

L & L SESSIONS 1 - 4 PM

- 1:00 - 4:00 PM: 3 Credits - 3B, 6B, 8C, PP2; 2 Credits - 3A**
 1:00 - 1:30 **Irrigation Water Quality and its Effects on Managed Landscape Plantings' IPM Demands**
Raul Cabrera, Rutgers University
 1:30 - 2:15 **Major Diseases You Need to be Concerned About on Landscape Turf** *Dr. Bruce Clarke, Rutgers University*
 2:15 - 3:00 **Recognizing Chemical Injury in the Landscape**
Rich Buckley, Rutgers University
 3:00 - 4:00 **Understanding Biostimulants** *Dr. Keith Karnok, University of Georgia, Emeritus*
4:00 - 8:00 PM TRADE SHOW and DINNER - DAY 1
 Grand Opening - **Sponsored by SYNGENTA**
 "Dine Around" the Trade Show - **Sponsored by BASF**
 Beverages - **Sponsored by LaBar Golf Renovations**
TRADE SHOW LEARNING CENTER:
 5:00 - 5:30 PM **Boxwood Blight Revisited** *Rich Buckley, Rutgers (1-3A)*
 6:30 - 7:00 PM **Green & Brown of Sunscreen** *Jennifer Wignall, Organic Bronzing*
8:00 PM - 12:00 AM Hospitality Suite - Immersion Spa, Water Club
Sponsored by Seeton Turf Warehouse

WEDNESDAY, DECEMBER 9, 2015

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

- 8:30 - 11:30 AM: 1 Credit - 3A, 6B, 8C, PP2; 4 - 3B • 2 ProFact**
 8:30 - 9:30 **Fertilizer Programming**
Dr. Beth Guertal, Auburn University
 9:30 - 10:00 **Choosing Trees for year 2070 - How Changes in the Environment Influences Future IPM Demands**
Dr. Jason Grabosky, Rutgers University
 10:00 - 10:45 **What's New on the Horizon: Recently and Soon to be Released Fungicides for Use on Landscape Turf**
Dr. Bruce Clarke, Rutgers University
 10:45 - 11:30 **Developing Your Weed Control Program**
Dr. James Murphy and Carrie Mansue, Rutgers University
11:30 - 2:30 TRADE SHOW and LUNCH - DAY 2
TRADE SHOW LEARNING CENTER:
 12:00 - 12:30 **Sun Safety...** *Jennifer Wignall, Organic Bronzing*
 12:45 - 1:15 **Emerald Ash Borer and NJ: Perfect Together (3A - 2 Credits)** *Rich Buckley, Rutgers*
 1:45 - 2:15 **Core and ProFact - 1 each: Select the Right Tool for the Job** *Joe Clark, Rutgers University*

L & L SESSIONS 2:30 - 5 PM

- 2:30 - 5:00 PM: 3 Credit - 3B, 6B, 8C, PP2;**
 2:30 - 3:15 **Reduced Risk Pest Management: How to Do It and Why It's Important** *Dr. Paul Koch, University of Wisconsin, Madison*
 3:15 - 4:00 **A Review of the "Fantastic Four": White Grubs, Chinch Bugs, Billbugs, and Sod Webworms**
Dr. Albrecht Koppenhöfer, Rutgers University
JOINT SESSION: SPORTS AND LAWN AND LANDSCAPE
 The final session of the day will bring together our Sports and Lawn & Landscape groups for a joint seminar, presented by nationally known Dr. Beth Guertal. In addition to reviewing important testing and selection procedures, this session will award two ProFACT credits!
 4:15 - 5:15 **Soil Testing and Fertilizer Selection (2 ProFACT Credits)**
Dr. Beth Guertal, Auburn University
 5:00 - 7:00 PM **MIX & MINGLE Reception** *28 West, Casino Level*
Sponsored by GRASS ROOTS

THURSDAY, DECEMBER 10, 2015

BUCKLEY'S BOOT CAMP 8 AM - NOON

- 8 AM - NOON: Part 1: 3 Credits - 3A, 6B, 8C, PP2; Part 2: 4 Credits - 3B**
8:00 - 12:00 PM BUCKLEY'S BOOT CAMP --
Lawn & Landscape - Attend one or both sessions
Rich Buckley and Sabrina Tirpak, Rutgers Plant Diagnostic Laboratory
 8:00 - 9:45 **3A (3 Credits): Diseases and Insect Pests of Bedding Plants, Perennials, and Small Woody Ornamentals**
Sabrina Tirpak, Rutgers University
 9:45 - 10:00 **Break and Credit SignUps for morning 3A session**
 10:00 - 12:00 **3B (4 Credits): Back to Basic Training: Common Turf Diseases in NJ Landscapes** *Rich Buckley, Rutgers Univ*
 12:00 **Credit SignUps following 3B session**
 12:00 - 1:00 **LUNCH ON YOUR OWN**

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

- 1:00 - 3:00 PM CORE Session** *4 Credits Core*
Core Jeopardy Game Show *Joe Clark, Rutgers Univ*
 Joe Clark from Rutgers will present his popular, interactive core information in a game show format. Joe's use of technology to allow audience participation has consistently created a positive buzz in the room, while delivering important information that all commercial pesticide applicator need to maintain their licenses and to perform applications safely.
OPTIONAL SPANISH ONLY
ProFACT - Training for Professional Fertilizer Applicators.
 Here's a chance to prepare your Spanish speaking employees for the ProFACT Fertilizer applicator's test. **Presented in Spanish only**, the session ends with taking the test itself. Training qualifies professionals to take certification exam. **Certified Fertilizer Applicators earn 3 ProFACT credits for sitting in on this training.** *Drs. Jim Murphy and Raul Cabrera, Rutgers*
SPANISH & ENGLISH ProFACT Exam for Certified Fertilizer Applicators (Separate \$75 Exam fee required)
Drs. Jim Murphy and Raul Cabrera, Rutgers University

SPORTS FIELDS PROGRAM

TUESDAY, DECEMBER 8, 2015

CORE SESSION 9- 11:30 AM & LUNCH

- 9:00 - 11:30 AM CORE SESSION** *5 Credits Core*
- 9:00 - 9:30 **The Bees, The Turf, and The Rules of the Game**
Dominick Mondì, Exec Director, NJGIC
- 9:30 - 10:30 **NJDEP Pesticide Control Program Update**
Stephen Bross, NJ DEP
- 10:30 - 11:30 **What Went Wrong in my Spray Tank?**
Dr. Mike Agnew, Syngenta

11:30 AM - 1:00 PM 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!



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

SPORTS FIELD SESSIONS 1 - 4 PM

1- 4 PM: 2 Credits - 3B, 6B, 8C, PP2; 6 Credits - 13

- 1:00 - 2:00 **MLB Tips for School and Municipal Ball Fields**
Bill Deacon, New York Mets - Citi Field
- 2:00 - 3:00 **Turf IPM and Communicating Pesticide Use**
Jerad Minnick, Natural Grass Advisor
- 3:00 - 4:00 **NJ DEP School IPM Program Update**
Amanda Lotto, NJ DEP

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

Grand Opening - **Sponsored by SYNGENTA**

"Dine Around" the Trade Show - **Sponsored by BASF**

Beverages - **Sponsored by LaBar Golf Renovations**

TRADE SHOW LEARNING CENTER:

- 5:00 - 5:30 PM **Boxwood Blight Revisited** *Rich Buckley, Rutgers (1-3A)*
- 6:30 - 7:00 PM **Green & Brown of Sunscreen** *Jennifer Wignall, Organic Bronzing*
- 8:00 PM - 12:00 AM **Hospitality Suite** - *Signature Room, Casino Level*
Sponsored by Seeton Turf Warehouse

WEDNESDAY, DECEMBER 9, 2015

SPORTS FIELD SESSIONS 7:30 - 11:30 AM

- 7:30 - 8:30 **Early Bird Sports Field Managers**
Networking Roundtable
- 8:30 - 9:00 **Annual Business Meeting**
- 9:00 - 9:30 **The Year in Review: Turf Selection to Reduce Pesticide Inputs on School Grounds**
Brad Park, Rutgers University
- 9:30 - 10:15 **#grasscantakemore**
Jerad Minnick, Natural Grass Advisor
- 10:15 - 11:00 **Preparing a Baseball Field for Play in April**
Bill Deacon, New York Mets
- 11:00 - 11:30 **Sports Field Management at Cinnaminson High School** *Jeff Schofield, Board of Education Cinnaminson*
- 11:30 - 2:30 TRADE SHOW and LUNCH - DAY 2**
TRADE SHOW LEARNING CENTER:
- 12:00 - 12:30 **Sun Safety** *Jennifer Wignall, Organic Bronzing*
- 12:45 - 1:15 **Emerald Ash Borer and NJ: Perfect Together**
(3A - 2 Credits) Rich Buckley, Rutgers University
- 1:45 - 2:15 **Core and ProFact - 1 each: Select the Right Tool for the Job** *Joe Clark, Rutgers University*

SPORTS FIELD SESSIONS 2:30 - 5 PM

- 2:30 - 5:00 PM: 2 Credit - 3B, 6B, 8C, PP2; 2 Credit - 13*
- 2:30 - 3:00 **Integrated Pest Management: Can We Minimize the Potential for Resistance to Insecticides Applied on Sports Fields and Grounds** *Dr. Albrecht Koppenhöfer*
- 3:00 - 3:30 **Strategies to Minimize Herbicide Applications Made to School Sports Fields and Grounds**
Steve McDonald, Turfgrass Disease Solutions
- 3:30 - 4:00 **Emerging Technology in Sports Field Management**
Dana Lonn, Toro Corporation

JOINT SESSION: SPORTS AND LAWN AND LANDSCAPE

- 4:15 - 5:15 **Soil Testing and Fertilizer Selection (2 ProFact Credits)**
Dr. Beth Guertal, Auburn University
- 5:00 - 7:00 PM **MIX & MINGLE Reception** *28 West, Casino Level*
Sponsored by GRASS ROOTS

THURSDAY, DECEMBER 10, 2015

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

- 12:00 - 1:00 **LUNCH ON YOUR OWN**
- 1:00 - 3:00 PM **CORE Session** *4 Credits Core*
Core Jeopardy Game Show *Joe Clark, Rutgers Univ*
Joe Clark from Rutgers will present his popular, interactive core information in a game show format. Joe's use of technology to allow audience participation has consistently created a positive buzz in the room, while delivering important information that all commercial pesticide applicators need to maintain their licenses and to perform applications safely.

- OPTIONAL SPANISH ONLY**
- 1:00 - 2:30 **ProFACT - Training for Professional Fertilizer Applicators.**
Here's a chance to prepare your Spanish speaking employees for the ProFACT Fertilizer applicator's test. **Presented in Spanish only**, the session ends with taking the test itself. Training qualifies professionals to take certification exam. **Certified Fertilizer Applicators earn 3 ProFACT credits for sitting in on this training.** *Drs. Jim Murphy and Raul Cabrera, Rutgers U*
- 2:30 - 4:00 **SPANISH & ENGLISH ProFACT Exam for Certified Fertilizer Applicators (Separate \$75 Exam fee required)**
Drs. Jim Murphy and Raul Cabrera, Rutgers University

TRADE SHOW HOURS

4:00 PM - 8:00 PM: Tuesday, December 8, 2015

Grand Opening **Sponsored by SYNGENTA**

"Dine Around" the Trade Show **Sponsored by BASF**

Beverages **Sponsored by LaBar Golf Renovations**

[See Inset on page 2 for Learning Sessions Titles]

11:30 AM - 2:30 PM: Wednesday, December 9, 2015

Lunch on Trade Show Floor

Beverages **Sponsored by LaBar Golf Renovations**

[See Inset on page 2 for Learning Sessions Titles]

GREEN EXPO 2015



ATTENDEE REGISTRATION

December 8, 9, 10, 2015

The BORGATA Hotel • Atlantic City, NJ

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 Industry Council (NJGIC).

— ATTENDEE INFORMATION —

Use this form for 2 Attendees and 2 Spouses. Duplicate form for more registrants.

Provide complete information. Thank you. Download forms at www.njturfgrass.org.

Today's DATE _____

Name 1 (PRINT CLEARLY) _____

E-mail _____
Confirmation sent via email

Name 2 (PRINT CLEARLY) _____

E-mail _____
Confirmation sent via email

Company Name _____

Mailing Address _____

City _____ State _____ Zip Code _____

Ph # _____ Fax # _____

Spouse 1: (PRINT CLEARLY) _____

Spouse 2: (PRINT CLEARLY) _____

— HOTEL RESERVATIONS —

\$89.00 Room Rates at The Borgata Hotel & Casino

Make Hotel Reservations by calling The BORGATA directly or booking online yourself. Call 1-(609) 317-1000 and provide GROUP Code GBNJ15.

Cut-off date for discounted rates is Thursday, November 19, 2015

Reservations made after this date are based on space availability and prevailing hotel rates. Make Hotel reservations online using the link below:

Go to www.theborgata.com, reference Group Code: GBNJ15

— 2016 NJTA MEMBERSHIP —

____ Renewal ____ New Membership Year: January 1, 2016 - December 31, 2016

- ☐ Individual Member \$ 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 _____

2 - NAME _____

2 - Email _____

3 - NAME _____

3 - Email _____

4 - NAME _____

4 - Email _____

— TURFGRASS INTEREST —

Tell us What Category BEST fits your Business:

- ____ Golf Course (Turfgrass) ____ Lawn Maintenance (Turfgrass)
 ____ Cemetery (Turfgrass) ____ Lawn Care Applicator (Turfgrass)
 ____ Irrigation (Turfgrass) ____ Landscape Designer (Turfgrass)
 ____ Parks & Recreation (Turfgrass) ____ Manufacturer/Supplier (Business)
 ____ Schools & Athletic Fields (Turfgrass) ____ Sod Producer (Business)

MEMBERSHIP Subtotal \$ _____

EARLY REGISTRATION FEES & CHOICES

Monday, November 16, 2015, is final date for EARLY Registration Fees
 After this date, PRICES INCREASE and ONSITE Registration Fees apply.

Did you attend the 2014 Expo? ____ YES ____ NO • NO Trade Show on Thursday

Food Functions include: Lunch on Tuesday; Dinner at Trade Show Tuesday & Lunch at Trade Show Wednesday.

2015 MEMBERSHIP WILL BE VERIFIED

	NJTA or GCSANJ MEMBER	NON-MEMBER RATE	TOTAL FEE
THREE (3) DAYS: Education, Trade Show, Food Tuesday, Wednesday, and Thursday (*Non-Member Rate includes (1) INDIVIDUAL Membership for 2016)	\$ 225	\$ 325*	\$ _____
TWO (2) DAYS: Education, Trade Show, Food Which Days? _____ ____ Tues ____ Weds ____ Thurs (No Trade Show) (*Non-Member Rate includes (1) INDIVIDUAL Membership for 2016)	\$ 175	\$ 275*	\$ _____
ONE (1) DAY: Education, Trade Show, Food Which Day? _____ ____ Tues ____ Weds ____ Thurs (No Trade Show)	\$ 125	\$ 175	\$ _____
SPOUSE BADGE: (Entire Event - No Education)	\$ 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	\$ _____
Which Day? _____ Tuesday _____ Wednesday			
FERTILIZATION CERTIFICATION Training & Exam: \$75			\$ _____
OPTIONAL: Thursday Afternoon 1:00 - 4:00 PM			

REGISTRATION Subtotal \$ _____

TOTALS: REGISTRATIONS & MEMBERSHIP

REGISTRATIONS \$ _____

MEMBERSHIPS \$ _____

TOTAL DUE \$ _____

Payment Information: Please Print Clearly

____ Check. Check Number # _____
 ____ Purchase Order # _____ (include paperwork)
 ____ Credit Card: ____ Visa ____ MasterCard ____ AMEX

Card No. | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ |

Expiration Date (Month/Year) ____ / ____

Security Code*: ____ *3 OR 4 digit security number on card.

*Payment cannot be processed without these security code numbers.

Billing Address (# only if different) _____ Zip _____

Cardholder's Name _____

X Signature _____

CHECK: Make Payable to NJTA • CREDIT CARD: Fax, Register 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

Final Deadline Date for EARLY Registration fees is November 16, 2015. After this date, ONSITE Registration fees apply. Cancellations must be in writing and received prior to November 16, 2015, and will be assessed a \$50 cancellation/processing fee. NO REFUNDS will be granted after November 16, 2015. Register ONLINE: www.njturfgrass.org

MAIL TOP COPY to GREEN EXPO Office • KEEP SECOND COPY • Date Received: _____

Government Affairs Update: Advocacy, Education, and a Print Anything Media

Dominick Mondì, Executive Director: Dominick Mondì serves as executive director of the New Jersey Green Industry Council, a trade organization dedicated to advocating for New Jersey's green industries in Trenton. New Jersey Green Industry Council

I have been in service of the New Jersey Green Industry Council for a little over a year, and in that time I have read dozens of op-ed pieces and letters to the editor regarding the dangers of pesticide and herbicide use. These are generated almost exclusively by local activists, and occasionally those in the organic industry looking to leverage irrational fear into business advantage. These messages make their way up to our legislators as well. I recall an instance vividly where before even asking a question, one state assembly person stated to me, 'Neonics, that's what is killing all the bee's, right?' He was not talking about a report he read or research summaries compiled by his staff, he was just told that by a 'constituent'. The reality has become this, media outlets will print anything that is submitted, regardless of how baseless the assertions are, and otherwise thoughtful and intelligent officials will react to passionate activists, regardless of conflicting (though sometimes less compelling) facts to the contrary.

The author of one recent letter to the editor in a Morris County paper makes some interesting statements. For example: 'pesticides are toxic to living organisms'. This sounds terrible! Toxic sounds bad and my dog and my kids are living! Educated professionals know that this is a generic statement that, while true, means nothing. The purpose of any pesticide is to be 'toxic' to very specific 'living organisms'. Another statement follows that after spring applications in her neighborhood there were 'No more birds, not even one.' As any golf course superintendent and property manager would attest to, the notion that one round of spring turf and landscape applications would eliminate every single bird in a community is ridiculous, but these wild assertions need not be supported to be printed. Perhaps my favorite comment in this particular article is 'companies are still required to post a sign on a property (sic) depicting crossbones'. Again, as we all know, the flags you post do not require the presence of crossbones, making this statement not charged exaggeration, but simply false.

This type of fear mongering is not harmless. Professional and educated turf and landscape managers protect the environment, protect water quality, and protect personal safety and quality of life, and most do it with an 'all of the above' IPM approach that includes the use of pesticides and fertilizers. When baseless claims leverage fear over facts it leads to loss of industry support and bad legislation.

The 'Safe Playing Fields Act' and Neonic Ban bills are perfect examples of this, and while thankfully the NJGIC and our partners have had success in educating elected officials about the realities of our industry in regards to these bills, the fight continues, and will continue, for the foreseeable future.

As a responsible member of the green industry, you can embrace organic and traditional products while creating management plans best suited for the properties under your care. You will lose the ability to do this if the ignorant messages of fear are allowed to stand unchecked and more and more regulation is piled on you and your business.

The NJGIC will continue our work to defend the green industry, and as always are grateful for the continued support from so many professionals working to elevate turf and landscape business in the Garden State.

And of course, don't forget to take the opportunity to support the council and meet many of our board members at the 2015 Green Expo! Each year the council runs a silent auction on the trade show floor, and this year we will be sporting a beach theme. See you in December!



Hot Days, Hot Topics, Hot Crowds

by Matt Lindner, SavaLawn

HOT and DRY were the words of the day for both the Golf and Fine Turf and the Lawn, Landscape & Sports Fields field days this year. The record heat and drought did not keep attendees from learning first hand -- the new fungicides, insecticides, herbicides and grass seed varieties that are being tested at Rutgers; with some even available for commercial use. Total attendance was 849 with 464 attending the Fine Turf and 385 attending the Lawn, Landscape, and Sports Turf day.

A special thanks goes to the Rutgers staff, the Master Gardeners, and the NJTA staff for assisting with the registration and actual field turf tours. Without their assistance and support, the heat would have certainly taken its toll on remaining volunteers required to pull off this successful 2 day event.

Thanks also to our various vendors and sponsors, for without their generous support, this and other events would not be possible.

The food was excellent and the addition of more serving stations allowed all attendees to eat more quickly and get to that desperately needed shaded table. As always, the ice cream and popsicles were a major hit.

I personally have attended various university field days in other states. I can say, without hesitation, that Rutgers are by far the most organized, educational, and supported field days in the North East. The excellent Rutgers staff is both informative and willing to answer any question you have. The most up to date research is taking place at Rutgers and if you have not already attended, you need to mark your calendar for July 26 and 27, the 2016 Rutgers Field Days.

On behalf of the NJTA, I want to send a really special thanks to Pedro Perdomo. Pedro has been on the NJTA board for 9 years and has been on the Field Day Committee for most of those years. Pedro has spent hours behind the scene, making sure every last detail is in place to have successful days. Pedro's experience will surely be missed. THANKS AGAIN PEDRO!



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2015 EXHIBITORS

at time of print

A. C. Schultes
A. G. Enterprises
Aer-Core
Aggrand/Amsoil
All American Ford
Aquarius Supply
Aquatrols
Barenbrug
BASF
Bayer

Brandt
Brock Farms
Carbtrol Corporation
Coombs Sod Farms
CST Pavers
Davisson Golf
Double "D" Turf
Dow AgroSciences
DryJect New Jersey
East Coast Sod & Seed
Ecologel Solutions
Fertl-Soil

Finch Services/John Deere/
LaCorte Equipment
Fisher and Son
F. M. Browns Sons
Genesis Turfgrass
Golf Course Superintendents Assn of NJ
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Helena Chemical
Intelligro
Irrigation Association of New Jersey
Jersey Seed
Knox Fertilizer
Lebanon Turf
Levitts
Mitchell Products
Montco Products
New Jersey Deer Control
New Jersey Green Industry Council
New Jersey Landscape Contractors Assn
New Jersey Nursery and Landscape Association
New Jersey Turfgrass Association



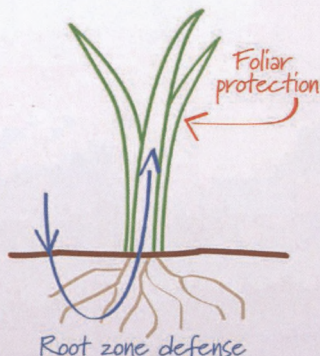
2015 EXHIBITORS

at time of print

Ocean County Utilities Authority
Partac Peat Corporation
Plant Food Company
Real Green Systems
Reed & Perrine
Rutgers University / OCPE
Salsco
Seeton Turf Warehouse
Shearon Golf
Soil and Water Consulting
Standard Golf Company
Storr Tractor Company
SynaTek
Syngenta
The Viersma Companies
Total Turf Services
Turf Trade
Vic Gerard Golf Cars
WeCare Organics
We Stop Deer
Wilfred MacDonald
Winfield

The advertisement features the "Zap! DEFOMER" logo at the top, followed by a cartoon frog holding a golf club. Below is the "SURF SIDE" logo with "Wetting Agent" text. A large green drop contains the number "37" and "100% ACTIVE". At the bottom, the phone number "1-800-401-0411" and website "www.montcoproducts.com" are listed.

Protect from root to leaf tip with one defensive play.



Headway® fungicide takes the guesswork out of disease control by providing truly broad-spectrum control of all major turf diseases, including anthracnose, brown patch and dollar spot. Featuring two active ingredients, Headway moves into the leaf and sheath upon application and also moves from the soil into the roots and translocates upward.

For more information contact:

Dennis DeScantis
732-580-5514
Dennis.Descantis@syngenta.com

Lee Kozsey
215-796-0409
Lee.Kozesy@syngenta.com



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Outsmart dollar spot with Xzemplar® fungicide.



150 years



We create chemistry

Dollar spot is a relentless opponent, but when you're prepared, you can cross it right off your list. **Xzemplar** fungicide with fluxapyroxad gives you consistent, longer-lasting protection against dollar spot. It's fast-acting, with preventative and curative properties that keep dollar spot at bay. Trust **Xzemplar** fungicide to put you in control of the game.

For more information please visit betterturf.basf.us.

NEW JERSEY TURFGRASS ASSOCIATION... WHAT IT DOES FOR YOU!

(Reprinted from the NJTA 1995 Silver Anniversary Expo and Member Directory.)

Most of these items continue to be priority with NJTA while others have changed to match current needs.

The New Jersey Turfgrass Association has developed and fostered a close working relationship between Rutgers University and the turfgrass industry. Through its organizational strength, NJTA has gained respect as the voice of the industry, and impacts significantly upon legislative and policy decisions affecting the industry in New Jersey.

Over the years NJTA has made the following contributions to the turfgrass industry in NJ:

- New Jersey Green Expo Turf and Landscape Conference - a cooperative effort between NJTA and Rutgers, the State University, to provide a nationally-recognized educational program and trade show to promote the industry and generate funds to sponsor research and scholarship endeavors.
- Support of Turfgrass Research - The NJTA awards research grants annually to research project leaders at Rutgers University, in the areas of turfgrass breeding, insect and disease control, and turfgrass management. Financial support from NJTA was also responsible for reestablishment of the Turfgrass Extension Specialist position and recruitment to the University of Dr. James Murphy.
- Scholarship Awards to students in the 2-year, 4-year, and graduate turf programs at Rutgers University.
- New Jersey Turfgrass Foundation - was incorporated as a separate entity to solicit and administer funding programs for turfgrass research and education.
- Project D.R.E.A.M. - Demonstration of Research, Experimentation, and Management display at Hort Farm 2 in North Brunswick serves to educate the public about turfgrass research, experimentation, and management techniques. The display was initiated and created as a project of NJTA.
- Turfgrass Field Day - alternating between Hort Farm 2 in North Brunswick and the Adelphia Farm, the annual NJTA Turfgrass Field Day gives anyone from the turfgrass industry access to the latest turf breeding and management research.
- Economic Impact Survey - NJTA funded a survey of the turfgrass industry, and its publication in both long and abbreviated forms. The survey has served to focus attention on the size and the importance of the turfgrass industry in New Jersey.
- Turfgrass Building - NJTA funded approximately half the cost of the turf building at Hort Farm 2 on Ryders Lane in North Brunswick. The turf building houses turf seed and chemical storage, a dry lab, and a conference room which also serves as a meeting place for NJTA and other related groups, as well as serving as a photo gallery of NJTA *Hall of Fame* recipients.
- Project T.R.I.B.U.T.E (Turf Farm Rebuilding to Improve Buildings, Utilities, Teaching, and Experimentation) was inaugurated with NJTA's pledge of \$60,000 to build a second turf building/classroom at Hort Farm 2.
- Shade, Frame, Underground Irrigation, Microscopes - and other equipment donated by NJTA to enhance the study of turf at Rutgers University.

*We value your membership in NJTA to continue to positively impact the turfgrass industry.
Please use the Member Application form insert to Renew or Become a New member
of the New Jersey Turfgrass Association. Thank you.*



25 US Highway 46 West • Wayne NJ 07470
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) | \$275.00 |
| <i>UP TO FOUR individuals covered in this membership fee.</i> | |
| <input type="checkbox"/> ADDITIONAL BUSINESS PARTNER (5 or more) | \$65.00 each |
|
<input type="checkbox"/> TURFGRASS PARTNER (Golf Course, Lawn Care, Landscaper) |
\$210.00 |
| <i>UP TO THREE individuals covered in this membership fee.</i> | |
| <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 _____



New Jersey Turfgrass Association

25 US Highway 46 West • Wayne NJ 07470
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

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.*

2015 C A L E N D A R

**Tuesday - Thursday,
December 8-10, 2015**

*Green Expo Conference
The Borgata Hotel,
Atlantic City NJ
40th Anniversary Event*



2016 C A L E N D A R

**Monday, May 2, 2015
Rutgers Turfgrass Research
GOLF CLASSIC**

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*



New Jersey Turfgrass Association

25 US Highway 46 W • Wayne, NJ 07470-6801

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

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

2015 Board of Directors

Shannon Sked, President

Dennis DeSanctis Jr, Vice President

Darrell Marcinek, Secretary

Matt Sweatlock, Acting Treasurer

Cece Peabody, MAT, CMP, Executive Director

Matt Sweatlock, Past President & Foundation President

Keith Kubik, Past President, NJTA & NJTF

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Dr. Karen Plumley, Golf Classic Co-Chair

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Dave Schell, Director

Craig Tolley, Director

Tracy Wadhams, Director

Jeff Weld, Director

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Dr. Bruce Clarke, Advisor

Dr. Jim Murphy, Advisor

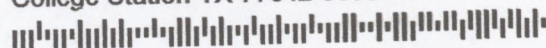
*****AUTO**MIXED ADC 07099

Dr. James B. Beard

International Sports Turf Institute

PO Box 10065

College Station TX 77842-0065



The Rutgers Plant Diagnostic Lab

The Plant Diagnostic Laboratory provides accurate and timely diagnoses of plant problems.

Below is a sample of services performed:

- ▶ Disease and Insect Pest Diagnosis
- ▶ Plant and Weed Identification
- ▶ Insect Identification
- ▶ Fungus and Mold Identification
- ▶ Nematode Assays
- ▶ Screening for Neotyphodium Endophytes
- ▶ Fungicide Resistance Screening
- ▶ Other Services Available by Contract

For more information please call us at 732/932-9140 or visit the web for sample submission instructions and forms at:
www.rcrc.rutgers.edu/plantdiagnosticlab.



The Rutgers Soil Testing Lab

The Rutgers Soil Testing Laboratory performs chemical and mechanical analyses of soils.

The following services are routinely performed:

Landscape

- Level 1** Fertility Test: Nutrients, pH, recommendations
- Level 2** Problem Solver (soil/plant suitability test)
- Level 3** Topsoil Evaluation

Greenhouse

Saturated (Organic) Media Extract Analysis: Nutrients, pH, electrical conductivity, inorganic nitrogen

Sport Turf

- Level 1** Fertility Test: Nutrients, pH, recommendations
- Level 2** Complete Test: Nutrients, pH, estimated CEC & cation saturation, soluble salt level, organic matter* content, soil textural class
- Level 3** Sand Root Zone Test

*Organic matter content would be determined by loss-on-ignition for golf course greens, as described by USGA guidelines.

For more information please call us at 732/932-9295, or visit us on the web at:
www.rcrc.rutgers.edu/soiltestinglab.