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Green  
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# clippings

Issue 3: 2013 - Fall | VOL 86

New Jersey

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Turf and Landscape Conference

*38th Annual*

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[www.njturfgrass.org](http://www.njturfgrass.org)

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# President's Message

by Matt Sweatlock, NJTA President



Rutgers Research Field Days never disappoint. Rutgers continues to supply the industry with a venue that is priceless to those in attendance by offering hands-on learning, networking and new research. I thank Pedro, Tracy, Cece, the Rutgers professors and staff, the committee, and volunteers for the countless hours it takes to coordinate such a high value, successful event.

What is *success*? Websters defines it as a "favorable or desired outcome; also: the attainment of wealth, favor, or eminence". How do you measure success? It seems like an easy question. Some may respond "profit". To others it may be a life style or comfort level.

In business, we set goals. Some goals may be an increase in clients or customers, a new grounds project, a new business direction, and, yes, increased profits. If one achieves their goal, they are successful. As business owners or managers, how we reach our goals is just as important as the goal itself. If the plan is to reach a goal by a specific date, or at all costs, and the plan isn't well thought out, you will be burdened with unintended consequences. If you grow your client base too rapidly, you may not be able to provide your service to them or your existing clients with the level of quality they deserve and you may lose clients. If the plan is to renovate a large area of your grounds without adequate funding, you may end up with future drainage problems, or other maintenance nightmares. Your business decisions may also have unforeseen consequences on employees who may become disgruntled and file false accusations against the company to various agencies, exhibit productivity issues, or good employees could be lost.

The Rutgers Research Field Days goals included working with our friends at Rutgers and allied associations to present an event that showcased the research being performed at the university, provided hands-on learning and a networking opportunity to our members. With all goals achieved, the Rutgers Field Days was a success.

Our next event, the Green Expo, will begin December 10th and continue through December 12th. The committee is applying the final touches on the educational segment and have been working with the Taj insuring the success of our next event.

A well thought plan will help us reach our goals and become successful.

Faithfully submitted,  
Matthew M Sweatlock  
President, NJTA

[www.njturfgrass.org](http://www.njturfgrass.org)

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Turfgrass  
Association**

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Do you have an article that would be great to share with other NJTA members about the turfgrass industry?

We would love to include a bio about you and your company. We would love to hear what's important to you.

Please consider connecting, sharing and sending your ideas, your thoughts, your perspectives and your articles.  
Tell Us What You Think.

Email them to: [execdirector@njturfgrass.org](mailto:execdirector@njturfgrass.org)  
Cece Peabody, Executive Director  
*Thanks in advance!*

**Save  
the  
Date**



**Tuesday - Thursday  
December 10-12, 2013**  
Green Expo Turf & Landscape  
Conference  
Trump Taj Mahal Hotel Resort  
Atlantic City NJ

## Weather and Mood

by Cece Peabody, MAT, CMP,  
NJTA Executive Director



How does the weather affect your mood? That question was asked at a recent meeting and the replies were across the board. Some said that weather had no bearing on how they felt or what mood they were in. Others said that they never even gave it a thought that there might be any correlation between the two. But the responses I found the most interesting were those who said that the weather definitely decided in large part how their mood was on that day.

There was a European study done in 2008 with 1233 participants aging from 13 to 68. They were first given a personality test to measure how open they were to experiences, how agreeable, how conscientious, and their extraversion level. They were given a daily diary and asked questions that measured tiredness and positive and negative mood. Examples of positive mood included feeling "active," "alert," "attentive," "excited." Examples of negative mood included feeling "irritable," "scared," "upset," "guilty". Tiredness was measured by terms such as "sluggish," "sleepy", and "drowsy."

Want to know the results? Researchers found that daily temperature, wind, sunlight, precipitation, air pressure, and how long the days were had no significant effect on positive mood.

- Temperature, wind, and sunlight were found to have an effect on negative mood. Sunlight seemed to play a role on how tired people said they were.
- Wind had more of a negative effect on mood in spring and summer than in fall and winter.
- Sunlight had a mitigating effect on whether people reported they were tired on days when it rained.
- People were so varied in how they responded that researchers write that a mood-weather link may still exist for individuals.
- When days become shorter, some people's moods mirrored that, while others actually felt more positive feelings.
- Researchers speculated that those who begin to get darker moods as the days get shorter may be at higher risk for seasonal affective disorder (SAD).

Each of us are different, and we react differently to things, including the weather. Maybe the next time the weather changes from sun to rain or vice versa, or to a new season, you'll notice your mood -- will you be active, alert, and excited about the day?

Cece Peabody, Executive Director



# Field Days 2013

*by Pedro Perdomo, Field Days C0-Chairman*

2013 is more than half way over and that means that the Rutgers Turfgrass Field Days are a thing of the past, but what can we say about 2013. The following are my thoughts on the 2013 Field Days:

The weather at both the Tuesday's Golf and Fine Turf and Wednesday's Lawn and Sports Field Turf days was as good as could be asked for. The days were not too hot or humid with plenty of sun, but had we held the event a couple of weeks earlier, we would have been in the 100's, or a day later and we would have been soaked by the rains that came. We got real lucky with the weather this year and it proved to make for some pleasant tour stops.

We changed the location of the registration desks to the end of the farm by the tent and that worked out just fine. The attendance was also very good. Both the pre and onsite registration number were solid and we had a total of 714 attend the event days. This is definitely a good thing as this shows that the professionals in this area are always looking to be better educated in the turf field. Of those attendees, 183 were first time attendees, so the word is still getting out there that this is an event that should not be missed. This year we had the opportunity to once again listen to Rutgers professors, students, and staff discuss their current research, which is pertinent to growing turfgrass in New Jersey and the surrounding states. We were presented studies looking at corn gluten meal as an herbicide. I have always wondered what the performance of this product looked like up close and personal. 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. There were other stops that caught my eye and all were excellent. Even Rutgers University has deer problems, with urine damage in several spots.

Day Two did not have the usual demonstrations that we have become accustomed to seeing at the event; the trade show was there and although there were table top displays, that did not stop the attendees from chatting with the vendors and getting some purchasing done.

Our sponsors were also there in full force. We try to acknowledge the sponsors at the event and in this article because they do make the event run smoother with their donation of products or financial support. Thank you to all the sponsors.

**2013 RUTGERS  
TURFGRASS  
RESEARCH  
FIELD DAYS  
A WINNER!**

For the last few years, we have been holding a silent auction for the NJ Turfgrass Foundation, where all proceeds go to the foundation and the foundation distributes the money to the Rutgers Turfgrass programs as needed. We are always concerned with the activity in the auction, but things seem to have picked up this year. This is a great place to pick up some products for your company use and also

find some other items of interest. If you're not sure how a silent auction works, come to the registration desk and ask.

There was a survey that was available after the event and in it there was a question about the Wednesday field day. I was surprised by how many of those that attended and filled out the survey liked the Hort Farm location and would like to see the field day held there in the future. A little history on this, for some time now the lawn and landscape day has been held at Adelphia, but there is some major reconstruction of the dams in the farm ponds and there was no way that we would be able to hold the event there so we decided to move it to the Hort Farm. This was done out of necessity but it is nice to see how many people actually enjoyed the change of scenery.





# Artillery Fungi

by A. B. Gould  
Specialist in Plant Pathology

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

## Artillery Fungi

Home gardeners and landscape professionals are often dismayed to see those small, brown or black spots splattered on the sides of buildings, downspouts, windows, cars, plant leaves, or any other object in the vicinity of a mulched landscape planting. When cut, these tiny, globular spots are white or cream-colored in the center. Efforts to remove them from buildings or other surfaces are often futile. Vigorous scrubbing often only removes paint or damages the finish on cars.

In many cases, “spotting” can be attributed to scale insects, fly speck, or other insect excrement. In this case, however, the spots are actually masses of mature spores, called peridioles, produced by the fungi in the genus *Sphaerobolus*. These peridioles are forcibly ejected from reproductive structures, or fruiting bodies, of the fungus. The word *Sphaerobolus* means “sphere thrower” in Latin, and the tiny fungus is commonly known as the “artillery fungus.”

## Distribution

*Sphaerobolus* is distributed in most temperate climates throughout the world. The fungus grows on manure, rotting wood, or other organic matter, and is often found on tanbark and wood chips in mulched foundation plantings. It is most prolific in open areas that are not too shady. The fungus also requires adequate moisture to complete its life cycle. Fungal populations tend to be higher in areas that have a northwest exposure. Occasionally, this fungus is found indoors associated with mulched potted plants, and in the greenhouse on old wooden benches or other rotting wood.

## Life History

*Sphaerobolus* fruiting bodies, approximately 2 mm in diameter, appear in large numbers on rotting wood as spherical, white or yellow globes that resemble tiny puffballs. The production of fruiting bodies is favored at temperatures between 50° and 60°F. Upon maturation, the fungal fruiting structure splits radially from the top, forming 4 to 8 teeth around a cup-like structure. A single peridiole, which is 1 mm in diameter, is produced inside and sits in liquid at the bottom of the cup. Several hours later the cup is violently turned inside out, catapulting the peridiole into the air. These spores can travel as far as 20 feet at 1/10,000 horsepower.

*Sphaerobolus* is phototrophic and will shoot its peridioles toward the strongest source of light, which can be any reflective surface such as the siding on a building or the bumper of a car. In nature, phototropism helps the fungus to disperse. By shooting its spores toward a light source, the fungus avoids obstacles such as leaves and stems of plants and helps to ensure the longest possible flight. Peridioles are highly adhesive and will stick to anything. They will also stick to plant material that may eventually be eaten by an herbivore and disseminated with the animal's feces.

## Management

*Sphaerobolus* grows anywhere rotting wood products are found. In situations where the aesthetic value of objects surrounding a mulched landscape bed is concerned, an alternate form of mulch should be considered. The rotting wood should be removed and replaced with mulch less likely to support development of the fungus (such as pine bark nuggets or cypress mulch<sup>1</sup>), stones, ground covers, or other material. There is some evidence that mixing mulch with spent mushroom compost (40%) suppresses fungal development.<sup>2</sup> Existing mulch can be raked periodically or covered with fresh mulch each year to inhibit the production of fruiting bodies. These measures, however, only temporarily reduce populations of the fungus and do not eliminate the problem.

Scraping peridioles from surfaces is a daunting project. Not only are they hard to remove, but in doing so, spores are often liberated and re-inoculate the planting bed. There are no fungicides currently labeled for control of artillery fungi.

<sup>1</sup>Davis, D. D., Kuhns, L. J., Akina, K., and Harpster, T. L. 2004. Artillery fungus sporulation on 27 different mulches – a field study. *J. Environ. Hort.* 22(3):117–123

<sup>2</sup>Davis, D. D., Kuhns, L. J., and Harpster, T. L. 2005. Use of mushroom compost to suppress artillery fungi. *J. Environ. Hort.* 23(4):212–215.



# Rutgers Organic Land Care Website, Certification, and Field Day

by Nick Polanin

Cooperative Extension of Somerset County  
State Coordinator, Rutgers Master Gardener Program

<http://www.njaes.rutgers.edu/organiclandcare/>

In order to educate and assist land care practitioners in determining what is acceptable under an organic program, Rutgers Cooperative Extension has developed an Organic Land Care Website and Certification Program. The program focuses on providing education on organic practices for promoting healthy soil, enhancing biodiversity, and reducing polluted runoff from managed landscapes.

As stated on the website, Organic Land Care is “a sustainable ecological landscaping system that promotes and enhances biodiversity, biological cycles, and soil biological activity.” (Northeast Organic Farming Association (NOFA) Organic Land Care Program, 2001).

The website includes resources for homeowners and professionals, including a roster of those landscape professionals who have taken the Rutgers Organic Land Care Certification course and have passed the certification exam. Details of becoming certified in Organic Land Care are also provided. Specific pages within the site include The Life of the Soil; Fertilizers and Soil Amendments; Compost and Compost Tea; Lawn and Lawn Alternatives; Protecting Water Resources; Pest and Disease Management; and Weed Management and Native Plants.

The question of what “organic” actually means can lead to a lot of confusion. The federal government through the National Organic Program (NOP) developed national organic standards for agriculture and a certification program identified by the “USDA Organic” symbol, which certifies that agricultural products meet federal organic standards. However, there are no federal standards for organic land care. Organic land care is not simply about the type of fertilizer or pesticide used on a home landscape. Rather, organic land care is a holistic approach to landscaping that restores and enhances biological cycles involving soil microorganisms, plants, and animals.

Rutgers Cooperative Extension certifies professional landscapers in organic land care. The program is designed for professional landscapers, property managers, public works employees, groundskeepers, landscape architects and Master Gardeners. This program is not intended for recreation and sports turf field managers.

To attain certification you must attend a 5-day training program, and pass a certification exam. Training programs are offered on an annual basis usually in January. The 2014 training session is scheduled for January 27, 28, 29 February 3, 4 (snow day: 5th), 8am- 5pm, at the Rutgers EcoComplex in Bordentown. A \$500.00 registration fee includes the entire training program, lunches, optional certification exam, and listing of certified organic business on the Rutgers website. Registration information is available by calling (732)-398-5275.

Program certification is good for a period of 3 years. Certification is maintained by obtaining 4 approved continuing education units (CEUs) every 3 years. Credit opportunities will be available through pre-approved classes and programs with a focus on organic land care such as full-day and half-day Rutgers Cooperative Extension (RCE) classes, Rutgers Office of Continuing Professional Education classes, and any class that offers Northeast Organic Farming Association Accredited Organic Land Care Professional (AOLCP) credits. In addition, those certified can choose to attend one day of the annual 4-day RCE organic land care certification course to earn the 4 CEUs.

...continued on page 22



## The Rutgers Plant Diagnostic Lab

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

Below is a sample of services performed:

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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](http://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:

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- 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](http://www.rcrc.rutgers.edu/soiltestinglab).

[www.rcrc.rutgers.edu/services](http://www.rcrc.rutgers.edu/services)



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# 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 Turfgrass Expo - 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. - Demonstratoion of Research, Experimentaton, And Management display at Hort Farm II in East 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 Fam II in East 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 II on Ryders Lane in East 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 Fram 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 II.
- 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.*



# A Day in the Life of Extension

by Nick Polanin

*Cooperative Extension of Somerset County  
State Coordinator, Rutgers Master Gardener Program*

Rutgers New Jersey Agricultural Experiment Station (NJAES) Cooperative Extension helps the diverse population of New Jersey adapt to a rapidly changing society and improve their lives and communities through an educational process that uses science-based knowledge. Through science-based educational programs, Rutgers Cooperative Extension truly enhances the quality of life for residents of New Jersey and brings the wealth of knowledge of the state university to local communities.

The Agriculture and Resource Management Agent Department (of which I am a member) delivers programs that assist commercial businesses, governmental agencies, agribusinesses and residents with assistance, information, field research, and consultation on various issues related to agriculture, environmental issues, and natural resources management: IPM, Master Gardener and Environmental Steward Programs, to name a few.

I recall applying for my current position as Agricultural and Resource Management Agent here in Somerset County back in 1998, after nearly 15 years in commercial and residential tree care. The interview entailed a 45-minute seminar I presented on research I had completed, and then after a short break, an hour-long interview with the entire search committee, about 8-10 people. It was quite a rigorous selection process - as well it should be for a tenure track faculty position with Rutgers University.

Land Grant Universities, such as Rutgers, Cornell, Penn State, etc. have an outreach mission mandate from their charter that created Cooperative Extension, which celebrates its 100th Anniversary next year. There are a few Universities such as Rutgers that have tenure track faculty positions in Extension, while most others offer high level staff positions. Obtaining tenure involves two three-year contracts during which time your peers and professors from across the country review and critique the impact and scholarly advancements of all your efforts, from teaching and research to publishing and service to the industry and community at large.

Though faculty and staff of Rutgers University work alongside other county staff in the 21 offices of Cooperative Extension, we serve both the University and our individual counties. Faculty members teach not on campus but primarily for the commercial industry and residential audiences at events throughout the year. We follow the county calendar rather than the school calendar, and utilize county resources and facilities to assist us in our work. Some research and teaching faculty who are primarily on campus teaching graduate and undergraduate students also have a percentage Extension appointment, perhaps in Turfgrass or Forestry or IPM, and they will teach occasionally off campus to these same audiences.

A typical day in Cooperative Extension, though none actually ever existed, could begin with Master Gardener volunteers arriving to answer calls and walk-ins to the Garden Helpline. Much of our consumer horticulture education depends on the successful training and retention of this volunteer corps, and its currently active in 18 of NJ's 21 counties. Plant and weed samples are brought in for insect or disease diagnosis, and it truly is an A-Z "what's wrong with my plant or lawn" session for the public.

Phone calls and emails and commercial and farmer visits, both to the office and out in the field, make the job of a County Agent rife with interruptions. It isn't so much multitasking as it is switching gears. Farmers with water use and wildlife control permits and Right to Farm issues; commercial pesticide applicators trying to wade through NJDEP's requirements; landscapers searching for answers on organic alternatives or certification in NJ's fertilizer law; phone calls and emails from new gentlemen farmers seeking tax assessment information or what's the best easiest low maintenance crop to grow on their 9 acres; and University requests for impact statements, budget requests, activity reports, grant applications, on-farm research results, strategic plans, and peer reviewed Journal articles.

*continued on page 20*





**Rutgers Turfgrass Research Field Day  
- Golf & Fine Turf -  
July 30, 2013**

*Photos  
Courtesy  
of Shaun  
Barry*





Rutgers Turfgrass Research Field Day - Lawn, Landscape & Sports Fields - July 31, 2013





## 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](http://www.njturfgrass.org)

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

### 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](http://www.njturfgrass.org)

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

<b>Name # 4</b> _____	<b>Title</b> _____
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

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

*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.*



# EXPO 2013 IS COMING!

by Chris Carson, Expo Chairman

Another season has come and gone, and that means it is time to think about the Green Expo, to be held December 10-12, at the Trump Taj Mahal Hotel in Atlantic City. Presented by the NJTA in partnership with the **Rutgers Center for Turfgrass Science** and **GC-SANJ**, and in cooperation with **SFMANJ** and **NJLCA** and others, it is filled with the very best speakers and researchers. There is truly something for everybody at this year's event.

**Need Core Credits?** As usual, we begin and end our show with a total of nine for you, with informative and fun sessions on Tuesday morning and on Thursday afternoon as well. Dr. Mike Agnew from Syngenta will present important information and research in that last session on understanding tank mix compatibility, application techniques, and factors that reduce pesticide effectiveness, and we are sure that you will find this information immediately useful to you in your operation... we encourage you to stay to the very end!

Our **Golf** sessions are loaded with interesting stories and cutting edge science. *Matt Shaffer* will present on hosting the US Open at Merion, and *Eric Johnson* will tell us about what it's like to be a superintendent at Chambers Bay in Washington State... and about his experiences at Bandon Dunes as well. Thursday's Rutgers Seminar has been developed by *Dr. Bruce Clarke*, and will focus on bacterial disease and other important maladies of cool-season turf. In between we have filled the three days with great speakers presenting valuable science and useful techniques.

If you are more interested in the **Lawn and Landscape** sessions, we have plenty for you, too, and new this year are three seminars presented by the *NJ Landscape Contractors Association* on the business end of our industry. You will be most welcome in these sessions, as well as the complete three day, credit rich sessions designed specifically for you. Many of our most popular speakers are returning to give you guidance on what's new and how to develop and strengthen your programs, and in response to your suggestions after last year's Expo, we have developed a special session for Wednesday afternoon that will focus on Organic Landscape Management.



And don't forget that *Rich Buckley* and *Sabrina Tirpak* will present the popular Buckley's Boot Camp once again on Thursday morning!

**Sports Field Managers** can look forward

once again to a full program dedicated to your particular concerns, and category 13 credits will be available in abundance as well.

Participants are invited to move from session to session according to your needs, though if you are seeking pesticide applicator credits it is your responsibility to stay fully for the individual sessions.

In addition to the many chances you'll have to greet old friends and meet new ones, there are several social opportunities set up for you as well. Lunch on Tuesday and Wednesday and Dinner on the trade show floor are all made possible by our loyal sponsors, as are the Tuesday night Hospitality Suites and Mix 'N Mingle Party. Hotel rooms are inexpensive, with a rate of only \$69 per night, and we think Expo offers the best value around: Great speakers, useful information, and a chance to unwind with friends after a long season... all at a low cost.

If you need further proof of the value Expo delivers, consider this: if you are interested in Lawn & Landscape, for example, and you attend all three days of Expo, you will be able to accumulate a total of 11 Core, 14 3B, and 9 3A Credits. That's 34 credits available to you for a single registration fee: Cost per credit for NJTA members is an easy on the pocket \$6.03... with a bunch of free meals to boot!

We hope to see you at Green Expo 2013, our 38th year of providing landscape and turfgrass professionals with important and useful information in a fun environment.

**Use Expo Registration form on next page.**



# GREEN EXPO 2013



## ATTENDEE REGISTRATION

December 10, 11, 12, 2013

Trump Taj Mahal Casino & Resort • 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 additional registrants.

Provide complete information. Thank you. Download forms at [www.njturfgrass.org](http://www.njturfgrass.org).

Today's DATE \_\_\_\_\_

Name 1 (PRINT CLEARLY) \_\_\_\_\_

Name 2 (PRINT CLEARLY) \_\_\_\_\_

Company Name \_\_\_\_\_

Title \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Ph # \_\_\_\_\_ Fax # \_\_\_\_\_

E-mail \_\_\_\_\_

*Confirmation sent via email*

Spouse 1: (PRINT CLEARLY) \_\_\_\_\_

Spouse 1: (PRINT CLEARLY) \_\_\_\_\_

### — TURFGRASS INTEREST —

Tell us What Category BEST fits your Business:

- |  |  |
|--|--|
| <input type="checkbox"/> Golf Course (Turfgrass)               | <input type="checkbox"/> Lawn Maintenance (Turfgrass)                                    |
| <input type="checkbox"/> Cemetery (Turfgrass)                  | <input type="checkbox"/> Lawn Care Applicator (Turfgrass)                                |
| <input type="checkbox"/> Landscape Contractor (Turfgrass)      | <input type="checkbox"/> Landscape Designer (Turfgrass)                                  |
| <input type="checkbox"/> Parks & Recreation (Turfgrass)        | <input type="checkbox"/> Irrigation (Turfgrass)  |
| <input type="checkbox"/> Schools & Athletic Fields (Turfgrass) | <input type="checkbox"/> Other _____   |
| <input type="checkbox"/> Sod Producer (Business)               | <input type="checkbox"/> Manufacturer/Supplier (Business)                                |
| <input type="checkbox"/> Student                               | <input type="checkbox"/> Professional (Professional, University, RCE Extension - COMPED) |

### — HOTEL RESERVATIONS —

**\$69.00 Room Rates in Taj Tower or \$89.00 in Chairman Tower.**

Make Hotel Reservations by calling Trump Taj Mahal Casino-Resort directly or booking online yourself. Call **1-(800)825-8888** and provide **GROUP Code ATURF13**. **Cut-off date for discounted rates is November 11, 2013**

Reservations made after this date are based on space availability and prevailing hotel rates. Make Hotel reservations online using the link below:  
<https://resweb.passkey.com/go/NJTurfgrass2013>

### — 2014 NJTA MEMBERSHIP —

\_\_\_\_ Renewal \_\_\_\_ New Membership Year: January 1, 2014 - December 31, 2014

- |  |             |
|--|-------------|
| <input type="checkbox"/> Individual Member   | \$ 80.00    |
| <input type="checkbox"/> BUSINESS Partners (Mfg/Suppliers/Sod Producers) (Up to 4) | \$275.00    |
| <input type="checkbox"/> TURFGRASS Partners (Golf, Lawn, Landscaper) (Up to 3)     | \$210.00    |
| <input type="checkbox"/> Addl Partners (Business or Turfgrass)                     | \$ 65.00 ea |

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**MEMBERSHIP Subtotal \$** \_\_\_\_\_

### — EARLY BIRD REGISTRATION CHOICES —

**Monday, November 11, 2013**, is final date to register using this form.

After this date, **PRICES INCREASE** and You **MUST** register **ONSITE**.

Did you attend the 2012 Expo? ☐ YES ☐ NO • NO Trade Show on Thursday

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

2013 MEMBERSHIP SUBJECT TO VERIFICATION

<b>THREE (3) DAYS:</b> Education, Trade Show, Food Tuesday, Wednesday, and Thursday	<b>NJTA or GCSANJ MEMBER</b>	<b>NON-MEMBER RATE</b>	<b>TOTAL FEE</b>
	\$ 205	\$ 290*	\$ _____

(\*Non-Member Rate includes (1) INDIVIDUAL Membership for 2014)

<b>TWO (2) DAYS:</b> Education, Trade Show, Food	<b>NJTA or GCSANJ MEMBER</b>	<b>NON-MEMBER RATE</b>	<b>TOTAL FEE</b>
<b>Which Days?</b>	\$ 155	\$ 210	\$ _____

\_\_\_\_ Tues \_\_\_\_ Weds \_\_\_\_ Thurs (No Trade Show)

<b>ONE (1) DAY:</b> Education, Trade Show, Food	<b>NJTA or GCSANJ MEMBER</b>	<b>NON-MEMBER RATE</b>	<b>TOTAL FEE</b>
<b>Which Day?</b>	\$ 105	\$ 135	\$ _____

\_\_\_\_ Tues \_\_\_\_ Weds \_\_\_\_ Thurs (No Trade Show)

<b>SPOUSE BADGE:</b> (Entire Event)	<b>NJTA or GCSANJ MEMBER</b>	<b>NON-MEMBER RATE</b>	<b>TOTAL FEE</b>
	\$ 65	\$ 95	\$ _____

**TRADE SHOW ONLY:** (Includes Food & Education Sessions on Trade Show Floor)

Attendees BOTH TUESDAY AND WEDNESDAY	\$ 85	\$ 105	\$ _____
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Attendees TUESDAY OR WEDNESDAY	\$ 65	\$ 85	\$ _____
--------------------------------	-------	-------	----------

**Which Day?** \_\_\_\_ Tuesday \_\_\_\_ Wednesday

<b>FERTILIZATION CERTIFICATION Training &amp; Exam:</b> \$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](http://www.njturfgrass.org) • Email: [execdirector@njturfgrass.org](mailto:execdirector@njturfgrass.org)  
 Register Online at: [www.njturfgrass.org](http://www.njturfgrass.org)

Final Deadline Date for Receipt of this Registration Form is November 11, 2013. After this date, everyone must register ONSITE. Cancellations in writing received prior to November 11, 2013, will be assessed a \$50 cancellation/processing fee. We regret that **NO REFUNDS** will be granted after November 11, 2013. **Register Online: [www.njturfgrass.org](http://www.njturfgrass.org)**

**MAIL TOP COPY to GREEN EXPO Office • KEEP SECOND COPY • Date Received:** \_\_\_\_\_



# GOLF EDUCATION PROGRAM

## TUESDAY, DECEMBER 10, 2013

Green Expo is filled with important and useful information, entertaining speakers, and chances to greet old friends and make new ones. Pesticide applicator credits are abundant, as are the opportunities to discuss your specific problems with a diverse group of professionals. Freely move from room to room to assemble the Education Program that fits your needs; at the Trade Show, enjoy a large buffet while exploring the offerings of our vendors. There is something for everybody at Green Expo!

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

- 9:00 - 11:30 AM CORE SESSION 5 Credits Core**  
 9:00 - 10:00 **Policing Homeowners, Inspecting the Unlicensed, and DEP Update** Steve Bross, NJDEP  
 10:00 - 10:30 **Important Regulations & Legislation that May Concern You**  
 Nancy Sadlon, New Jersey Green Industry Council  
 10:30 - 11:30 **Core Jeopardy: Safety, Calibration, and Regulations** Joe Clark, Rutgers University

### 11:30 AM - 12:50 PM AWARDS LUNCH

Sponsored by **STORR TRACTOR COMPANY**



NJTA Annual Meeting  
 NJTA Awards

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



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

### GOLF SESSIONS 1-4 PM

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

- 1:00 - 1:30 **Don't Tank Your Spray!**  
 Steve McDonald, Turfgrass Disease Solutions  
 1:30 - 2:00 **Bermuda, Kyllinga, Dallisgrass and other Invasive Weeds** Dr. Shawn Askew, Virginia Tech  
 2:00 - 2:30 **How to Develop Your Maintenance Standards**  
 Jim Skorulski, USGA  
 2:30 - 3:15 **Poacure (methiozolin): Latest on Greens Management and New Research in Fairways**  
 Dr. Shawn Askew, Virginia Tech  
 3:15 - 4:00 **Turfgrass Plant Health: Facts, Myths and Realities**  
 Dr. Bingru Huang, Rutgers University  
**4:00-8:00 PM TRADE SHOW - DAY 1**  
**Grand Opening - Sponsored by SYNGENTA**  
**Dinner Around the Floor - Sponsored by BASF**  
 5:00 - 5:30 **Core on the Floor**  
 8:00 PM - 12:00 AM Hospitality Suites - 14TH FLOOR

## WEDNESDAY, DECEMBER 11, 2013

### GOLF SESSIONS 9 - 11:30 AM

9 - 11:30 AM: 2 Credits - 3B, 6B, 8C, PP2

- 9:00 - 10:00 **Biology and Control of the Annual Bluegrass Weevil**  
 Dr. Albrecht Koppenhöfer, Rutgers University  
 Dr. Ben McGraw, State University NY (SUNY) - Delhi  
 10:00 - 10:45 **Chambers Bay Golf Course and West Coast "Links" Golf**  
 Eric Johnson, Chambers Bay Golf Course  
 10:45 - 11:15 **Wow: That looks green! Recent Trends in Pigment Use** Steve McDonald, Turfgrass Disease Solutions  
 11:15 - 12:00 **Merion and the US Open: The Little Course that Packed a Big Punch**  
 Matt Shaffer, Merion Golf Club  
 11:30 - 2:30 **TRADE SHOW - DAY 2**  
 12:30 - 1:30 **GCSANJ Assistant Superintendent Workshop**  
 We're Number Two: Why Try Harder?  
 Tim Moraghan, Aspire Golf, Sponsored by **TREE TECH**  
 1:45 - 2:15 **Core on the Floor** John Grande, Rutgers University

### GOLF SESSIONS 2:30 - 5 PM

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

- 2:30 - 3:00 **Soils, Nutrients and the Role of Potassium in Disease Control**  
 Dr. Jim Murphy, Rutgers University  
 3:00 - 3:45 **Let's Talk About Fescues**  
 Dr. Stacy Bonos, Rutgers University;  
 Adam Moeller, USGA  
 3:45 - 4:15 **Life After NemaCur** Dr. Nathaniel Mitkowski, Univ RI  
 4:15 - 5:00 **The Fescues at Chambers Bay Golf Club**  
 Eric Johnson, Chambers Bay Golf Course  
 5:00 - 7:00 PM **MIX & MINGLE** Sponsored by **GRASS ROOTS**  
 8:00 - 10:00 **GCSANJ SOCIAL** Sponsored by  
**FISHER & SON, SEETON TURF WAREHOUSE, SYNGENTA**



USGA

## THURSDAY, DECEMBER 12, 2013

### GOLF SESSIONS 8 AM - NOON

8 AM - NOON: 8 Credits - 3B, 6B, 8C, PP2

- 8:00 - 12:00 PM RUTGERS SEMINARS**  
**BACTERIAL DISEASE AND OTHER IMPORTANT MALADIES OF COOL-SEASON TURF**  
 8:00 - 8:45 **History of Bacterial Diseases of Cool-Season Turf and Influence of Fertility and PGRs on Bacterial Decline of Bentgrass** Dr. Nathaniel Mitkowski, Univ RI  
 8:45 - 9:15 **Bacterial Etiolation and Decline of Creeping Bentgrass: Past, Present, and Future**  
 Paul Giordano, Michigan State University  
 9:15 - 9:45 **Understanding Etiolated Tiller Syndrome on Creeping Bentgrass Greens**  
 Joseph Roberts, NC State  
 9:45 - 10:15 **Changing the Paradigm for Controlling Anthracnose: Using BMP Factors to Significantly Reduce Fungicide Usage**  
 James Hempfling, Rutgers University  
 10:15 - 11:15 **Proper Selection of Bluegrass for Disease Resistance**  
 Dr. Bill Meyer, Rutgers University  
 11:15 - 12:00 **How to Optimize Turfgrass Fungicide Programs on Golf Courses in the Northeast**  
 Dr. Bruce Clarke, Rutgers University

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

- 12:00 - 1:00 **LUNCH ON YOUR OWN**  
 1:00 - 3:00 **CORE Session 4 Credits Core**  
**From the Shelf to the Turf: Understanding Tank Mix Compatibility, application techniques, and factors that reduce pesticide effectiveness.**  
 Dr. Michael Agnew, Syngenta Professional Products  
**OPTIONAL**  
 1:00 - 2:30 **ProFACT - Training for Professional Fertilizer Applicators** (Training qualifies professionals to take the certification exam and Certified Fertilizer Applicators will receive 3 credits of continuing education for this training)  
 Dr. Jim Murphy, Rutgers University  
 2:30 - 4:00 **ProFACT Exam for Certified Fertilizer Applicators (\$75 Exam fee required)**  
 Dr. Jim Murphy, Rutgers University



# LAWN & LANDSCAPE EDUCATION PROGRAM

## TUESDAY, DECEMBER 10, 2013

Green Expo is filled with important and useful information, entertaining speakers, and chances to greet old friends and make new ones. Pesticide applicator credits are abundant, as are the opportunities to discuss your specific problems with a diverse group of professionals. Freely move from room to room to assemble the Education Program that fits your needs; at the Trade Show, enjoy a large buffet while exploring the offerings of our vendors. There is something for everybody at Green Expo!

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

- 9:00 - 11:30 AM CORE SESSION 5 Credits Core**  
 9:00 - 10:00 **Policing Homeowners, Inspecting the Unlicensed, and DEP Update** Steve Bross, NJDEP  
 10:00 - 10:30 **Important Regulations & Legislation that May Concern You**  
 Nancy Sadlon, New Jersey Green Industry Council  
 10:30 - 11:30 **Core Jeopardy: Safety, Calibration, and Regulations** Joe Clark, Rutgers University

### 11:30 - 12:50 AWARDS LUNCH

**Sponsored by STORR TRACTOR COMPANY**



NJTA Annual Meeting  
 NJTA Awards

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

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



### L & L SESSIONS 1 - 4 PM

- 1:00 - 4:00 PM: 2 Credits - 3B, 6B, 8C, PP2; 4 Credits - 3A**  
 1:00 - 1:30 **New Herbicides to Consider for Your Weed Control Program** Carrie Mansue, Rutgers University  
 1:30 - 2:00 **Hot Topics in Landscape Ornamentals: Downy Mildew and Bacterial Leaf Scorch**  
 Dr. Ann Gould, Rutgers University  
 2:00 - 3:00 **Coupling Pest Avoidance With Excellent Design: Native Plants You Can Use In Your Designs**  
 Steve Kristoph, Kristoph Nursery  
 3:00 - 3:30 **Boxwoods: now you see them, soon you won't!**  
 Rich Buckley, Rutgers University  
 3:30 - 4:00 **Bermuda, Kyllinga, Dallisgrass and other Invasive Weeds** Dr. Shawn Askew, Virginia Tech  
**1:00 - 4:00 PM NJ LANDSCAPE CONTRACTORS ASSN BUSINESS SEMINAR I**  
**Snow and Ice Management for Success**  
 Tom Canete, Canete Landscape, Garden Center, Snow Removal  
**4:00 - 8:00 PM TRADE SHOW - DAY 1**  
**Grand Opening - Sponsored by SYNGENTA**  
**Dinner Around the Floor - Sponsored by BASF**  
**Core on the Floor**  
 5:00 - 5:30

## WEDNESDAY, DECEMBER 11, 2013

### L & L SESSIONS 9 - 11:30 AM

- 9 - 11:30 AM: 1 Credit Core; 1 Credit - 3A, 6B, 8C, PP2; 4 - 3B**  
 9:00 - 9:30 **Insects that Suck** Rich Buckley, Rutgers University  
 9:30 - 10:00 **Natural Turf and Landscape Management Certificate**  
 Dr. Roy Meyer, NJ DEP  
 10:00 - 10:30 **Selecting and Modifying Backpack Sprayers for Precision Cost Effective Pesticide Application while Reducing Operator Fatigue** Dr. John Grande, Rutgers  
 10:30 - 11:15 **Important Diseases of Landscape Turf and their Control** Dr. Bruce Clarke, Rutgers University  
 11:15 - 12:00 **Developing Your Insect Control Program**  
 Dr. Albrecht Koppenhöfer, Rutgers University  
 9:00 - 11:30 **NJ LANDSCAPE CONTRACTORS ASSN BUSINESS SEMINAR II**  
 9:00 - 10:15 **Design/Build Sales 101** Jody Shilan, NJLCA, Exec Dir  
 10:15 - 11:30 **Professionalism in the High-End Design/Build Market**  
 Joe Palimeno, Ledden Palimeno Landscaping  
 11:30 - 2:30 **TRADE SHOW - DAY 2 (Learning Center)**  
 1:45 - 2:15 **Core on the Floor** John Grande, Rutgers University

### L & L SESSIONS 2:30 - 5 PM

- 2:30 - 5:00 PM: 4 Credits - 3B, 6B, 8C, PP2**  
**What Exactly Is "Organic Landscape Management"?**  
 2:30 - 3:30 **IPM and Organic Management Systems for Turfgrass** Brad Park, Rutgers University  
 3:30 - 4:00 **Wetting Agents for Better Turf Quality and Disease Control** Nathaniel Mitkowski, Univ. of Rhode Island  
 4:00 - 4:30 **Beneficial Bugs and Their Potential for Biological Turfgrass Disease Control** Paul Giordano, Mich State U  
 4:30 - 5:00 **Cultural Management Practices for Controlling Diseases in Landscape Turf** Joseph Roberts, NC State  
 2:30 - 5:00 **NJ LANDSCAPE CONTRACTORS ASSN BUSINESS SEMINAR II**  
 2:30 - 3:45 **Budgeting and Estimating for Landscape Contractors**  
 Marcus Vandervliet, MV Enterprises  
 3:45 - 5:00 **Bookkeeping Basics for Landscape Contractors**  
 Dan Gordon, Turfbooks  
**5:00 - 7:00 PM MIX & MINGLE Sponsored by GRASS ROOTS**

## THURSDAY, DECEMBER 12, 2013

### BUCKLEY'S BOOT CAMP 8 AM - NOON

- 8 AM - NOON: 4 Credits - 3A, 6B, 8C, PP2; 4 Credits - 3B**  
**8:00 - 12:00 PM RUTGERS SEMINARS**  
**Rich Buckley and Sabrina Tirpak,**  
**Rutgers Plant Diagnostic Laboratory**  
 8:00 - 9:00 **A Dozen Reasons to Cut Down your Trees: Everything you didn't want to know about Wood Boring Insects in New Jersey, Part I**  
 9:00 - 10:00 **Fungicides in Landscape Turf: Selection and Use**  
 10:00 - 11:00 **Wood Boring Insects, Part II**  
 11:00 - 12:00 **Fighting the Supernatural: Exorcise the Fairy Ring from my Lawn!**

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

- 12:00 - 1:00 LUNCH ON YOUR OWN**  
**1:00 - 3:00 CORE Session 4 Credits Core**  
**From the Shelf to the Turf: Understanding Tank Mix Compatibility, Application Techniques, and Factors that Reduce Pesticide Effectiveness.**  
 Dr. Michael Agnew, Syngenta Professional Products  
**OPTIONAL**  
 1:00 - 2:30 **ProFACT - Training for Professional Fertilizer Applicators** (Training qualifies professionals to take the certification exam and **Certified Fertilizer Applicators will receive 3 credits of continuing education for this training**) Dr. Jim Murphy, Rutgers  
 2:30 - 4:00 **ProFACT Exam for Certified Fertilizer Applicators (\$75 Exam fee required)**  
 Dr. Jim Murphy, Rutgers University



# SPORTS FIELD MANAGERS EDUCATION PROGRAM

## TUESDAY, DECEMBER 10, 2013

Green Expo is filled with important and useful information, entertaining speakers, and chances to greet old friends and make new ones. Pesticide applicator credits are abundant, as are the opportunities to discuss your specific problems with a diverse group of professionals. Freely move from room to room to assemble the Education Program that fits your needs; at the Trade Show, enjoy a large buffet while exploring the offerings of our vendors. There is something for everybody at Green Expo!

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

#### 9:00 - 11:30 AM CORE SESSION 5 Credits Core

- 9:00 - 10:00 Policing Homeowners, Inspecting the Unlicensed, and DEP Update *Steve Bross, NJDEP*
- 10:00 - 10:30 Important Regulations & Legislation that May Concern You  
*Nancy Sadlon, New Jersey Green Industry Council*
- 10:30 - 11:30 Core Jeopardy: Safety, Calibration, and Regulations *Joe Clark, Rutgers University*

#### 11:30 - 12:50 AWARDS LUNCH

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NJTA Annual Meeting

NJTA Awards

NJTA's loyal friend, Mary Lou DesChamps sponsors lunch once again. We thank her for the industry!



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

### SPORTS FIELD SESSIONS 1 - 4 PM

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

- 1:00 - 1:45 Implementing Sound Cultural Practices That Reduce Turfgrass Pest Pressure in Morris Township  
*Bill Foelsch, Morris Township, NJ Parks & Recreation*
- 1:45 - 2:15 Weed Control Using Fewer Pesticides On School Sports Fields & Grounds  
*Tom Serensits, Penn State University*
- 2:15 - 2:45 Cultural Strategies To Reduce Turfgrass Diseases On School Sports Fields & Grounds  
*Rich Buckley, Rutgers University*
- 2:45 - 3:00 SFMANJ Field of the Year Presentation
- 3:00 - 4:00 The NJ School IPM Law: What You Need To Know To Comply  
*Tim Boyle, NJDEP, Pesticide Control Program*
- 4:00 - 8:00 PM **TRADE SHOW - DAY 1**  
Grand Opening - Sponsored by **SYNGENTA**  
Dinner Around the Floor - Sponsored by **BASF**  
Core on the Floor  
Being a Major League Head Groundskeeper  
*Nicole McFadyen, Baltimore Orioles*

## WEDNESDAY, DECEMBER 11, 2013

### 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  
*Brad Park, Rutgers University*
- 9:30 - 10:15 Update on Synthetic Turf Research  
*Tom Serensits, Penn State University*
- 10:15 - 11:00 Management of Turfgrass and Skin Surfaces at Camden Yards  
*Nicole McFadyen, Baltimore Orioles*
- 11:00 - 11:30 Sports Field Management at the Salem Board of Education *Fred Kendall, Salem BOE*
- 11:30 - 2:30 **TRADE SHOW - DAY 2**
- 1:45 - 2:15 Core on the Floor *John Grande, Rutgers University*

### SPORTS FIELD SESSIONS 2:30 - 5 PM

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

- 2:30 - 3:15 Sports Field Management at the NY Red Bull Stadium *Dan Shemesh, New York Red Bulls*
- 3:15 - 4:15 IPM Methods to Control White Grubs and Other Insect Pests on School Sports Fields & Grounds  
*Dr. Ben McGraw, SUNY Delhi*
- 4:15 - 5:00 Vision For Sports Turf Managers Association (STMA) From the President-Elect  
*David Pinsonneault, CSFM, CPRP, Town of Lexington, Massachusetts*
- 5:00 - 7:00 PM **MIX & MINGLE** Sponsored by **GRASS ROOTS**

### TRADE SHOW HOURS

**DAY 1: Tuesday, December 10, 2013**  
**4:00 PM - 8:00 PM**

**Dinner on Trade Show Floor**  
**Sponsored by BASF**

**DAY 2: Wednesday, December 11, 2013**  
**11:30 AM - 2:30 PM**

**Lunch on Trade Show Floor**

**Core Sessions & More in Learning Center - CHECK SCHEDULE - Pg 2**

## THURSDAY, DECEMBER 12, 2013

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


- 12:00 - 1:00 **LUNCH ON YOUR OWN**
- 1:00 - 3:00 CORE Session 4 Credits Core  
From the Shelf to the Turf: Understanding Tank Mix Compatibility, Application Techniques, and Factors that Reduce Pesticide Effectiveness.  
*Dr. Michael Agnew, Syngenta Professional Products*

#### OPTIONAL

- 1:00 - 2:30 ProFACT - Training for Professional Fertilizer Applicators (Training qualifies professionals to take the certification exam and **Certified Fertilizer Applicators will receive 3 credits of continuing education for this training**) *Dr. Jim Murphy, Rutgers*
- 2:30 - 4:00 ProFACT Exam for Certified Fertilizer Applicators (\$75 Exam fee required)  
*Dr. Jim Murphy, Rutgers University*

Updated Pesticide Credits Awarded from all states will be posted at: [www.njturfgrass.org](http://www.njturfgrass.org)






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# Meet our Allied Association - NJLCA

by Gail Woolcott, Director of Operations

The New Jersey Landscape Contractors Association (NJLCA) is very excited to be participating in the educational classes being offered at the Green Expo in Atlantic City on December 10-12, 2013. For years, the NJLCA and NJTA have had a great relationship working together to support each other's programs and trade shows. Over the past 12 months, we have been working even harder to provide all of our members with even more opportunities to educate themselves and grow their businesses.

This year, the NJTA will be including a business track at the Green Expo specifically aimed at landscape maintenance contractors, design/build contractors, and snow and ice managers. These classes are designed to help green industry business owners and their employees develop a better understanding of what goes into making a landscape company more successful. We've been very fortunate to attract some very well known speakers in the industry and have made sure that there is something for everyone.

For the snow removal enthusiast we have *Tom Canete* of *Canete Snow and Ice Management*, one of the Top 50 Snow Contractors in the country and number 34 in the Top 100 Leaders in the Snow Industry, according to SNOW Magazine. If you're looking for some solid budgeting, estimating and bookkeeping classes, then you're in luck, because we have *Marcus VandeVliet* of *MV Consulting*, previously of *VanderKooi and Associates*, and *Dan Gordon* of *Turfbooks*, to help you get 2014 off to a great start. For the salespeople out there who are looking to attract and sell to high-end clients and sell more work this year, you must see *Joe Palimeno* of *Ledden Palimeno Landscaping*, a multiple award-winning design/build firm, and *Jody Shilan* of *Jody Shilan Designs*, speaker and consultant, and Executive Director of the NJLCA.

[www.njturfgrass.org](http://www.njturfgrass.org)

New Jersey Landscape Contractors Association



These classes are open to everyone and are appropriate for contractors who are just starting out, have been in the industry for several years or are seasoned professionals. If you're a student, this is a terrific way to learn more about the business side of the industry before you graduate. Come to one class or come to all of them. We guarantee that you'll get some great ideas and wonderful information that will help you and your landscape business be more successful.

The New Jersey Landscape Contractors Association (NJLCA), a non-profit, trade association for landscape contractors, has been encouraging professional standards and promoting the green industry for more than 45 years and are a valuable resource to the contractor and industry. The NJLCA takes an active advocacy role in protecting and furthering its members' business interests at both the state and federal levels. The association is dedicated to advancing the integrity, proficiency, profitability, and personal growth of the landscape professional. Through educational seminars, trade shows, social events, networking opportunities, membership meetings, emails, magazines, and professionalism in all that we do, the Association is able to fulfill this mission. Please visit [www.njlca.org](http://www.njlca.org) for more information.

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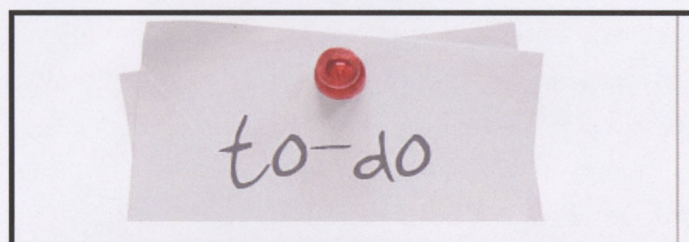


# A Day in the Life of Extension...continued from page 10

As was said at my interview back in 1998 after everyone stopped laughing when I asked what a typical day was for a county agent, "If you get three things done that day from your list of 10, you've had a great day!"

So realistically, for any County Agent of RCE, no matter what their department or field of expertise, it is a daily 'juggling act' of sorts in meeting University tenure requirements while also serving the needs of industry and county clientele groups. Many of us were hired with expertise specific to horticulture, tree fruit, farm marketing, urban forestry, and vegetables, to name a few. Yet we are challenged every day to meet the needs of new and existing clientele, to successfully manage large volunteer groups, to assist in conflict resolution, and to facilitate discussions to answer the question, "What will Extension be in 5, 10, 15 years?"

As retirements continue to lessen our numbers and budgets continue to shrink, County Agents and offices of Rutgers Cooperative Extension have utilized more distance education tools, from simple emails to educational webinars, in meeting the needs of larger, regional, and more diverse audiences all across NJ.



1. **Mark my Calendar for Green Expo 2013**
2. **Save the Dates - December 10-12, 2013**
3. **Register Early - Get the Discounts**
4. **Plan My Daily Schedule - What Credits do I need? Who do I want to see?**
5. **When there...Focus on Business in AC!**



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# NJGIC Green Industry Silent Auction

## December 10 & 11, 2013 at GREEN EXPO



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**Why participate?** By donating products and services, and participating in the Silent Auction, you help NJGIC, industry partners and others educate about the industry and the science that drives our decisions. Donating is an easy way to help! Bidding on great items will help as well!

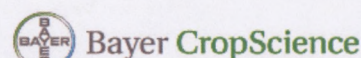
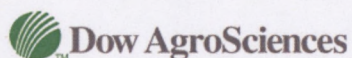
**What are the benefits of participating?** Help the green industry.

- Secure an avenue of outreach and education on legislative and regulatory issues
- Give your company recognition as a supporter of the Green Industry
- Provide exposure of your company to over 1200 attendees at New Jersey Green EXPO
- Provide an opportunity for people to try your product(s) or service(s)

**How do I become a Silent Auction Sponsor?** Contact NJGIC Fundraiser Chairman Jay Turchi at (215) 913-0510 or JTurchiJr@comcast.net for details. A modest sponsorship fee is required, company exposure and recognition of Silent Auction support at EXPO and other venues offered.



### NJGIC Thanks Its Platinum Sponsors



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for your  
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appreciated.**

## **Rutgers Organic Land Care..**

*...continued from page 7*

Other certification program requirements include that all certified should also have a pesticide applicator license because commercial application of pest control products requires a license regardless of product type (organic or conventional). Within one year of completing the certification course, businesses must be using separate application equipment for their organic and conventional treatments in order to avoid cross-contamination. In addition, it is suggested that businesses consider having a separate arm that deals with organic clients in order for clients to distinguish between the types of services offered.

Members of the RCE Organic Land Care Working Group include RCE faculty and staff Michele Bakacs (RCE Union/Middlesex Counties); Amy Rowe (RCE Passaic/Essex Counties); Joe Heckman, Extension Specialist in Soil Fertility; James Murphy, Extension Specialist in Turf Grass Management; William T. Hlubik (RCE Middlesex County); and Jan Zientek (RCE Essex County). Agency partners include Roy Meyer, Chief, Bureau of Pesticide Compliance, NJDEP and Audrey Moore, Regional Ag Policy Specialist, USEPA Region 2. Professional and industry partners include Barry Draycott, President, TechTerra Environmental Inc.; Keith Haitz, President, HyrdoGreen; Richard A. McCoy, President, McCoy Horticultural Services, Inc.; Dominick Mondy, New Jersey Nursery and Landscape Association; and Christopher Paul, Genesis Landscaping.

The program is also hosting an "Organic Land Care Field Day: Planting and Plant Care" on October 2, 2013, from 12- 4:30 pm in Princeton, NJ. Fee: \$35.00. Please watch their website for more details.

Any questions regarding the site or the certification program should be directed to co-coordinators Michele Bakacs, Environmental and Resource Management Agent at (732) 398-5274 or [bakacs@njaes.rutgers.edu](mailto:bakacs@njaes.rutgers.edu) or Amy Rowe, Environmental and Resource Management Agent, 973-287-6360 or [rowe@njaes.rutgers.edu](mailto:rowe@njaes.rutgers.edu). Both authors welcome input and suggestions as this site is continuing as a work in progress rather than a finished product.



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# CALENDAR

## 2013 EVENT DATES

***Tuesday - Thursday***  
**December 10-12 , 2013**  
**GREEN EXPO**

**Turf & Landscape Conference**  
*Trump Taj Mahal Resort Casino,  
 Atlantic City NJ*

## 2014 Event Dates

***Monday***  
**May 5, 2014**  
**Rutgers Turfgrass Research**  
**Golf Classic**  
*Fiddler's Elbow Country Club  
 Bedminster NJ*

***Tuesday & Wednesday***  
**July 29 & 30, 2014**  
**Rutgers Turfgrass Research**  
**Field Days**  
*Tuesday: Hort Farm II,  
 N. Brunswick NJ*  
*Wednesday: Adelphia Farm,  
 Freehold NJ*

## RUTGERS EXTENSION OFFICES & NUMBERS

RCE of Atlantic County	(609) 625-0056
RCE of Bergen County	(201) 336-6780
RCE of Burlington County	(609) 265-2900
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) 353-5525
RCE of Gloucester County	(856) 307-6450
RCE of Hudson County	(201) 915-1393
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) 431-7278
RCE of Morris County	(973) 285-8307
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.*  
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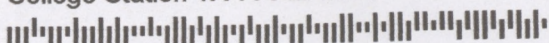
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