

new jersey turfgrass association

Green
World



clippings

Issue 2: 2013 - Summer | VOL 86

COME TO HORT FARM II
FOR THE

Rutgers Turfgrass
Research Field Days
July 30 & July 31





2013 Patron Directory

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President's Message

by Matt Sweatlock, NJTA President



On May 6th The NJTA hosted the 18th Annual Rutgers Turfgrass Research Golf Classic with over 300 supporters in attendance. I thank Shaun, Darrell, Cece, Dr. Clarke, Dr. Meyer and the rest of the committee that devoted countless hours preparing for this outing. I also thank all the sponsors and attendees, for their support makes this fundraiser a true testament to the Rutgers turf program.

The Rutgers Turfgrass Research Field Days will be held on July 30th and 31st. Hort Farm II is the site of the Golf & Fine Turf and the Lawn, Landscape, & Sports Field Days.

I was looking for an updated edition of a pest control reference book that I've been using for about twenty years. My contact questioned my reasoning for a paper copy, stating that all that information is available online. When I first bought the book, I also hand wrote 150 employee timecards per week. Years later, I printed labels that were adhered to the timecards. The next advancement was creating a template that would print the pertinent information on the timecard using report system on the payroll program. Now the workers swipe a magnetic card and the information is sent directly to the payroll company via the Internet, monitored with computers in the office.

More and more we are relying on technology to do business. We went from business cards to vCards (although I still use business cards). We rely on computers, smart phones, & tablets to manage our contacts and our schedules. Some of us are using QR codes that will route a customer to our web site, a product we offer, or a service we provide. Computer software is available to manage our finances, design landscapes, and track equipment maintenance. There are computer controlled irrigation systems. We use computers to download and manage our MSDS's, manufacturer's labels and manuals.

We can e-mail information to our customers. Rutgers New Jersey Agricultural Experiment Station offers an online Plant & Pest Advisory for industry professionals and their educational fact sheets can be downloaded for free.

This technology has made us better turf managers and more efficient business professionals. I look forward to what the future brings. Oh, and I never did buy that hardcover new edition.

Faithfully submitted,
Matthew M Sweatlock
President, NJTA

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Please keep us informed of any changes
to your member profile
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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
Cece Peabody, Executive Director
Thanks in advance!

**Save
the
Date**



**Tuesday & Wednesday,
July 30 & 31, 2013**

Hort Farm II, North Brunswick

*Note: Due to construction at
Adelphia Farm, both Field Days
will be held at Hort Farm II.*

**Rutgers
Turfgrass Research
Field Days**

It's Nice to be Reminded...

by Cece Peabody, MAT, CMP,
NJTA Executive Director

*We honor all Americans for
patriotism, courage,
determination, and motivation.
Many writers capture quotes that say it
so much better than most of us can.*



Patriotism is supporting your country all the time, and your government when it deserves it.

Mark Twain

A man's country is not a certain area of land, of mountains, rivers, and woods, but it is a principle and patriotism is loyalty to that principle.

George William Curtis

137 years later, Memorial Day remains one of America's most cherished patriotic observances. The spirit of this day has not changed - it remains a day to honor those who died defending our freedom and democracy.

Doc Hastings

Memorial Day this year is especially important as we are reminded almost daily of the great sacrifices that the men and women of the Armed Services make to defend our way of life.

Robin Hayes

Additional quotes...

Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time.

Thomas A. Edison

Learn from the past, set vivid, detailed goals for the future, and live in the only moment of time over which you have any control: now.

Denis Waitley

Some cause happiness wherever they go; others whenever they go.

Oscar Wilde

We hold these truths to be self-evident: that all men are created equal; that they are endowed by their Creator with certain unalienable rights; that among these are life, liberty, and the pursuit of happiness.

Thomas Jefferson

Cece Peabody, Executive Director

Save the Days! (July 30 & 31, that is)

by Craig Tolley

Save the Days!!! July 30, and 31, 2013 The Annual Rutgers Turfgrass Research Field Days at the Rutgers Turfgrass farm (Hort Farm II) in North Brunswick NJ! Come out and learn from the Rutgers Extension specialists. There will be updates on new turfgrass varieties, disease and pest control options. Both days will have pesticide certification and GCSAA Education credits.

Tuesday, July 30th, will be the Golf and Fine Turf Day.

This year, be sure to come early on the 30th for an additional opportunity to get some extra core credits (for NJ licensed pesticide applicators). The tour will include educational sessions covering a wide variety of topics. You will have the opportunity to learn about the newest advances in the control of disease, insects and weeds for turfgrasses. You will be able to see the latest variety trials, with special attention given to the management of Velvet Bentgrass. Get first-hand knowledge of the latest management strategies for controlling Anthracnose.

Come back on Wednesday (July 31) for the Lawn, Landscape, and Sports Field Day. This year it will be in a new location. The event has moved to the North Brunswick Turf Farm (Hort Farm II)! The tours will include educational sessions displaying major advances in turfgrass breeding, performance of turfgrasses under traffic stress, and low-input turfgrass systems, plus the ever popular Sport Field Managers Association of NJ's trade show, on July 31. Stop early before the tours and during lunch to see the latest products

for turf and sport field management. Each day will begin at 7:30am and finish at 2:00pm.

There will be a Silent Auction each day to help support the New Jersey Turfgrass Foundation. Stop by and check the great variety of items to bid on.

As a bonus each day, there will be FREE training for the Professional Fertilizer Applicator Certification, from 2:00 to 3:00pm (you can also sign up to take the

certification exam, \$75.00).

Professionals applying fertilizer to turf need this certification. Space is limited so early registration is strongly recommended.

Pre-registration is now open!!

2013 members of the New Jersey Turfgrass Association

receive over 25% off the early bird registration fee (\$55.00 pre-registration, members only \$40.00) members of allied associations are also eligible for the member rate.

Register today at <http://www.njturfgrass.org/> early registration will be open until July 19.

PS - Remember to mark your calendars for the Green Expo Turf and Landscape Conference, December 10-12, 2013.





What Mildews Affect Ornamental Plants?

by A. B. Gould
Specialist in Plant Pathology

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

In household terms, a “mildew” is thought of as a fungal growth on a flat surface. Mildew fungi, which include species of *Aspergillus*, *Cladosporium*, *Penicillium*, and *Stachybotrys*, use various organic materials in moist locations for food (lending that musty smell to damp basements and bathrooms).

In plant pathology terms, a mildew is defined (1) as “a thin coating of [fungal] mycelial growth and spores on the surfaces of infected plant parts.” Two types of mildew are commonly associated with plant disease: **downy mildew** and **powdery mildew**. Powdery mildews are extremely common on outdoor plants during the summer. Downy mildews affect plants during cooler, moister weather; reports of this disease on roses have been received this growing season.

Downy mildew

Downy mildews are caused by fungal relatives called Oomycetes. These fungal-like organisms, troublesome in during cooler, moister weather, attack tender, above-ground plant parts, dispersing rapidly in films of water. In susceptible ornamental plants, downy mildews are most often caused by species of *Peronospora*, although species of *Plasmopara*, *Pseudoperonospora*, *Sclerospora*, and *Bremia* also cause this disease.

In the Northeast, downy mildew is especially common on roses. Although all roses are susceptible to downy mildew, disease severity varies by cultivar. Also in the news is downy mildew of impatiens, caused by the oomycete *Plasmopara obducens*. Garden impatiens (*Impatiens walleriana*) is very susceptible, as are balsam impatiens (*I. balsamina*), the jewelweeds (*I. pallida*, *I. capensis*), and interspecific hybrids with *I. walleriana*. First observed in 2004, downy mildew was confirmed in greenhouse and landscape impatiens in 32 states in 2012; in New Jersey, the disease was especially troublesome in Monmouth and Ocean Counties last June. Note that this particular species of *Plasmopara* is not an issue for New Guinea impatiens or other flower or vegetable crops.

Various ornamental plants susceptible to downy mildew include:

African daisy, *Agastache* (giant hyssop), *Alyssum*, *Anemone* (windflower), *Antirrhinum* (snap dragon), *Arabis* (rockcress), *Argyranthemum* (dill daisy), *Bracteantha* (paper daisy), *Brunnera* (Siberian bugloss), *Buddleia* (butterfly bush), *Campanula* (bellflower), *Centaurea* (knapweed, cornflower), *Cissus* (Rex begonia), *Coleus*, *Coreopsis* (tick seed), *Delphinium*, *Galium* (sweet woodruff), *Geranium* spp. (not florist's), *Helianthus* (sunflower), *Iberis* (candytuft), *Impatiens*, *Lamium* (dead nettle), *Limonium* (statice), *Lisianthus*, *Mertensia* (bluebells), *Mimulus* (monkey flower), *Myosotis* (forget-me-not), *Oenothera* (sundrop), *ornamental pepper* (Capsicum), *Papaver* (poppy), *Physostegia* (obedient plant), *Primula* (primrose), *Ranunculus* (buttercup), *Rosa*, *Rosmarinus* (rosemary), *Rudbeckia* (coneflower), *Salvia* (sage), *Silene* (campion), *Thalictrum* (meadow-rue), *Veronica* (speedwell), and *Viola* (true violet and pansy).

Disease development

Symptoms of downy mildew most often appear on the upper leaf surface as a patchy yellow, purple, or brown discoloration bound by leaf veins. Affected leaves may defoliate prematurely, and stunting may also occur in some species, such as snapdragon, and in seedlings and bulb crops. To see why the disease is called “downy mildew,” turn the leaf over. Evident on the lower leaf surface (best to use a hand lens) are the characteristic downy tufts of white to purple/grey fungal growth. This growth consists of spores (called sporangia or conidia) that are easily dislodged and disseminated by wind and splashing water. Symptoms of downy mildew may be sometimes confused with those caused by foliar nematodes.

Downy mildews develop on susceptible crops during cool (58 to 72°F), fairly humid (> 95% RH) conditions when spores from previously infected tissue are splashed or blown by air currents to colonize new sites. As infection progresses, symptoms develop, and the downy tufts of spores associated with leaf lesions may appear on the lower leaf surface. Fungal development ceases for most



What Mildews Affect Ornamental Plants?

by A. B. Gould
Specialist in Plant Pathology
continued from page 6

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

downy mildews when weather becomes dry and warmer than 80 degrees F for 24 hours. In the absence of susceptible plant tissue, downy mildew pathogens in cold climates survive in plant debris, soil, or weeds.

Watch closely for symptoms in susceptible crops during periods of cool, humid weather. When you see foliage that is discolored, turn the leaves over to check for mites or downy mildew sporulation. Symptoms of this disease can be confused with other fungal (such as *Botrytis* blight and powdery mildew) or bacterial diseases, foliar nematode, or some nutritional deficiencies. To distinguish these diseases, look for signs (fungal growth, bacterial streaming, or the bodies of nematodes).

Management

Preventive controls for downy mildew are critical. To manage this disease, first “manage the moisture”: space plants to ensure good air circulation and rapid drying of foliage after irrigation. Avoid overhead irrigation when the weather is generally cool. In greenhouses, reduce relative humidity to less than 85% by, again, properly spacing plants, and use horizontal air flow fans to improve air circulation throughout the house. Fill the house with warmer, drier air by venting and heating two or three times per hour at dawn and at dusk.

Scout crops regularly for evidence of disease. Practice good sanitation techniques. Discard all diseased plants as well as plant debris that may harbor spores, and control weeds that may be another source of downy mildew inoculum.

Protect susceptible crops during cool, wet weather with preventive fungicides. Check your local Cooperative Extension office for products that are labeled in your state. Be sure to consult the label for hosts, timing, and rates.

Note that for some downy mildew diseases, such as downy mildew of impatiens, chemical control in growing facilities is difficult once the fungus sporulates. Preventive action is key. In addition, homeowners with affected impatiens have few options; consider alternatives for planting beds

this year.

Powdery mildew

Powdery mildew is a “summer season” disease that tends to affect outdoor plants after the growing season has begun. This disease is probably the most commonly recognized disease of ornamental plants in the nursery and landscape, affecting more than 7000 plants worldwide. Of the 300 or more different fungi that cause powdery mildew diseases, species of *Blumeria*, *Erysiphe*, *Golovinomyces*, *Leveillula*, *Phyllactinia*, and *Podosphaera* are most common.

Powdery mildew fungi obtain food from living plant cells through a specialized, nutrient-absorbing structure called a haustorium. The haustorium forms within the cells of the host plant epidermis; nutrients move from this structure through hyphae that connect to the plant surface, where the “powdery” growth is evident. The relationship between fungus and host plant is pretty sophisticated; the fungus gets the nutrition it needs from the host, but the host is not usually seriously harmed. Most powdery mildew species are host-specific; development of powdery mildew on one species will not necessarily lead to disease on other hosts nearby.

Common hosts of powdery mildews include:

Acer (maple), Aesculus (buckeye, horse chestnut), Amelanchier (serviceberry), Antirrhinum (snapdragon), Begonia \times hiemalis (Rieger begonia), Berberis (barberry), Betula (birch), Catalpa, Chrysanthemum, Cornus florida (flowering dogwood), Cotinus (smoke-tree), Cotonaster, Crataegus (hawthorn), Dahlia, Delphinium, Eucalyptus, Euonymus, Fagus (beech), Fraxinus (ash), Gardenia, hydrangea snowball, Ilex (holly), Juglans (walnut), Kalanchoe, Kalmia (mountain laurel), Lagerstroemia (crape myrtle), Leucothoe, Ligustrum (privet), Linden (basswood), Liriodendron (tulip tree), Lonicera (honeysuckle), Magnolia, Malus (apple and crabapple), Monarda, Paeonia (peony), Phlox, Photinia serratifolia (Chinese photinia), Platanus (sycamore), Populus (poplar), Prunus (apricot, cherry, peach, pear, plum), Pyracantha, Quercus (oak), Rhododendron (azalea and rhododendron), Rosa, Salix

...continued on page 22



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The Scarlet Knight Shared the Rutgers Spirit with All!



Meet our Allied Association - IANJ

by Patricia S. Koziol, Executive Director



Irrigation Association of New Jersey



Founded in 1974, the Irrigation Association of New Jersey is a 501 c6 voluntary nonprofit organization formed to:

- Promote the proper use and design of irrigation systems.
- Promote water conservation.
- Collect and disseminate information of concern to its members, the public and associated industries.
- Keep the public, private institutions and governmental agencies abreast of the economic impact and concerns of its members.
- Conduct educational programs.

The Irrigation Association of New Jersey, in acknowledging the value of dependable water supplies to our industry, commits itself and its members to water conservation by meeting the following objectives:

- To develop water conserving design criteria as minimum standards for the industry.
- To teach water conserving design and techniques.
- To educate the end-user about water conservation practices and efficient programming.

IANJ serves its over 300 members in a variety of ways. A major focus of the association is to help the contractor members remain professionally certified as irrigation contractors as stipulated by the New Jersey law that governs their contractor licenses. IANJ contractor members attend two major conferences a year: Winter Tech in January and Summer Tech in August, which provides them with the latest courses on water and irrigation technology. Members are also able to train their employees on the latest techniques through these classes.

IANJ also maintains a strong legislative voice in Trenton with a legislative lobbying team engaged in monitoring issues of concern to the irrigation industry. Because irrigation contracting is one of the few industries where a license to install irrigation equipment is mandatory, IANJ works very closely with the Department of Environmental Protection, the Licensing Irrigation Contractors Examining Board, and the Department of Community Affairs to ensure we are meeting the state laws and regulations pertaining to irrigation contracting. IANJ is the voice of the irrigation contractor industry in New Jersey and also supports the work of the Irrigation Political Action Committee to keep that voice alive.

IANJ has the support of many industry distributors and suppliers who serve as seminar instructors, event sponsors, and programs hosts. IANJ is thankful for these companies who continue to work with the contractor members to meet the standards of the industry.

As an affiliated chapter of the national Irrigation Association, IANJ supports Smart Irrigation Month in July, presents certification classes developed by IA, and works closely with their state and national public affairs staff to promote issue of concern to the industry. IANJ is one of the larger chapters within IA and we are proud to contribute to their national goals.

The IANJ Board of Directors for 2013 is:

Michael Edmiston, President
The Toro Company

Richard Robinson, Vice President
Premier Irrigation

Dan James, Treasurer
Storr Tractor Company

Eric Nelson, Immediate Past President
Green-Way Irrigation, Inc.

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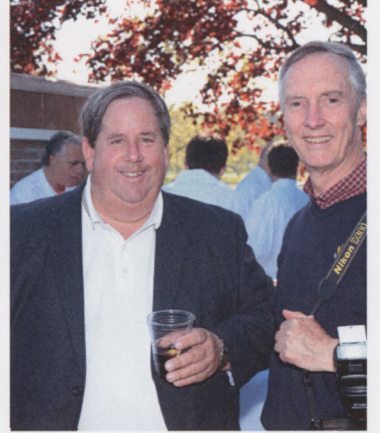
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These leaders are actively engaged in representing the members of the Irrigation Association of New Jersey. Please feel free to contact them at 973-850-3366.



Over 335 Attendees Golf, Shopped, Supped, Sipped, and Shared!



2013 RUTGERS TURFGRASS RESEARCH FIELD DAYS



IMPORTANT: Due to construction at Adelphia Farm, both Field Days will be held at Hort Farm II in North Brunswick.

Tuesday, July 30, 2013 GOLF & FINE TURF DAY

Hort Farm II, 102 Ryders Lane, North Brunswick NJ

- New Turfgrasses for Golf Courses
- Advances in Disease, Insect, and Weed Control
- Management of Velvet Bentgrass
- Latest on Management Strategies for control of Anthracnose
- Evaluation of Newly Released Products for Golf Courses
- **Basic Training for the Professional Fertilizer Applicator and Certification or Recertification Exam (\$75) (Space for 80)**

SILENT AUCTION ITEMS ON Both Days!

Be the highest bidder and win great products!



Wednesday, July 31, 2013

LAWN, LANDSCAPE & SPORTS FIELD DAY

Hort Farm II, 102 Ryders Lane, North Brunswick NJ

- Major Advances in Turfgrass Breeding
- Performance of Turfgrasses Under Traffic Stresses
- Latest Strategies for Improved Pest Control on Turf
- Low-Input Turfgrass Systems
- The Latest Sports Field & Ground Products
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REGISTRATION: 2013 RUTGERS TURFGRASS RESEARCH FIELD DAYS

- MAIL CHECK (Payable to 'NJTA') to: 25 US Hwy 46 W, Wayne NJ 07470 • CLICK ONLINE: www.njturfgrass.org
- FAX FORM with Credit Card Info or Purchase Order # to: (973) 812-6529 • CALL if Questions: (973) 812-6467

Date Recd at NJTA:

BOTH DAYS AT HORT FARM • SILENT AUCTION - WIN BIG!

Tuesday, July 30, 2013

Golf and Fine Turf Day

Hort Farm II, 102 Ryders Lane, North Brunswick, NJ

** No entry to Farm until 7:00 AM**

Wednesday, July 31, 2013

Lawn, Landscape & Sports Field Day

Hort Farm II, 102 Ryders Lane, North Brunswick, NJ

** Vendors can arrive at 6:30 AM** • SFMANJ Sponsored Table Tops ONLY in 2013

PROGRAM

7:30 AM		Registration Opens
8:00 - 8:30 AM	Optional Early Bird	CORE Session (Limit 80) SILENT AUCTION Opens
9:00 AM		Tours Begin
1:00 PM		Tours End
1:00 - 2:00 PM		Lunch & SILENT AUCTION Ends
2:00 PM		Field Day Ends • NJTA BOD Mtg • Rutgers Advisory Mtg
2:00 - 3:00 Training	Optional Limit 80	• BASIC TRAINING for Professional Fertilizer Applicator Certification
3:00 - 4:00 EXAM		• FERTILIZER CERT. EXAM @ \$75

7:30 AM	Visit Vendors	Registration & SFMANJ Trade Show Opens
9:00 AM		Tours Begin • SILENT AUCTION begins
9:00 AM - 9:30 AM		CORE Session
9:30 AM - 10:00 AM		Fertilizer Law Updates
1:00 PM		Tours End
1:00 - 2:00 PM		Lunch & SILENT AUCTION Ends
2:00 PM		Field Day Ends (unless staying for below)
2:00 - 3:00 Training	Optional Limit 80	• BASIC TRAINING for Professional Fertilizer Applicator Certification
3:00 - 4:00 EXAM		• FERTILIZER CERT. EXAM @ \$75

No Fee to ONLY attend Certification Training • BOTH DAYS: Pesticide Certification and GCSAA Education Credits

THIS FORM IS EARLY BIRD REGISTRATION ONLY • If not received by 7/19/13, you must register Onsite.

** To qualify for "MEMBER" rate, you must be a current member of one association(s) listed or join with this form: New Jersey Turfgrass Assn (NJTA), Sports Field Mgrs Assn of NJ (SFMANJ), Golf Course Superintendents Assn of NJ (GCSANJ), NJ Landscape Contractors Assn (NJLCA), Cultivated Sod Growers Assn of NJ (CSGANJ), NJ Nursery Landscape Assn (NJNLA). Membership is subject to verification.

Check Which Association(s) You Belong to BELOW:

<input type="checkbox"/> NJTA	<input type="checkbox"/> SFMANJ	<input type="checkbox"/> GCSANJ	<input type="checkbox"/> NJLCA	<input type="checkbox"/> CSGANJ	<input type="checkbox"/> NJNLA
WRITE FEES for CORRECT DAYS ATTENDING:			TUESDAY	WEDNESDAY	
** MEMBER EARLY BIRD - Before 7/19/13			x \$ 40 Each Day	\$	\$
After 7/19/13: \$55 - OnSite Registration Only					
NON-MEMBER EARLY BIRD - Before 7/19/13			x \$ 55 Each Day	\$	\$
After 7/19/13: \$70 - OnSite Registration Only					
* NJTA Membership: Individual (1)			x \$ 80 Each	\$	\$
* Turfgrass Members: Golf Course, Lawn Care, Landscaper			x \$ 210 (1-3 Names)	\$	\$
* Business Members: Manufacturer/Supplier or Sod Producer			x \$ 275 (1-4 Names)	\$	\$
Write Member Names:					
• No Fee if ONLY attending 2 PM Training Session.			x \$75 Exam	\$	\$
• \$75 Fee for Certification OR Recertification EXAM					
If not received by 7/19/13, you must register Onsite.			SUB TOTAL	\$	\$
Total of Tuesday & Wednesday Columns			GRAND TOTAL	\$	\$

ATTENDEE REGISTRATION INFORMATION

Register ONLINE at www.njturfgrass.org

* Use This Form for no more than 4 Attendees. • PLEASE PRINT CLEARLY • FIELD DAYS will be held Rain or Shine. No refunds.

Today's Date: _____

First/Last Name/s: (1) _____ (2) _____

(3) _____ (4) _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: (_____) _____ Fax: (_____) _____

**E-mail for Confirmation: _____

** We need your email to send confirmation and directions, plus any updates about this and future events. Thanks very much.

Payment: TOTAL Enclosed: \$ _____ *All registration fees are non-refundable.

Check # _____ || Credit Card: ☐ Visa ☐ Mastercard ☐ American Express || Purchase Order # _____

Account Number: _____

Exp. Date (MM/YY): ____ / ____ Security Code: _____

Name on Account: _____

Billing Address: _____ Billing Zip Code: _____

Authorized Signature: _____

Purchase Orders must be signed by NJTA. Send PO or Voucher with registration form.

FEES

REGISTRATION



2013 Rutgers Turfgrass Research Field Days SPONSOR OPPORTUNITIES

Dear Friend:

June 2013

Rutgers Turfgrass Research Field Days are one of the finest and most respected programs in the country. Field Days provide an excellent opportunity to share research findings that immediately helps turfgrass managers, and provides certification and pesticide credits for those in attendance.

Discounted registrations are extended to association members of: *New Jersey Turfgrass Association, Golf Course Superintendents Association of New Jersey, Sports Field Managers Association of New Jersey, Cultivated Sod Growers Association of New Jersey, New Jersey Landscape Contractors Association, and the New Jersey Nursery and Landscape Association.*

We invite you to participate in the annual **Rutgers Turfgrass Research Field Days 2013** on Tuesday, July 30th, and Wednesday, July 31st. We hope you will partner with NJTA and become a **SPONSOR** of this event. Sponsorship opportunities are below. Thank you in advance for your thoughtful consideration. Previous sponsors will have the first opportunity to repeat their sponsorship. Please complete and mail or fax – contact information at bottom of page.

Pedro Perdomo
Field Days Co-Chairman

Tracy Wadhams
Field Days Co-Chairman

SPONSORSHIP	COST	BENEFITS
PLATINUM Sponsor	\$1500	Four (4) Complimentary Registrations (<i>In total not each day</i>). Signage with Company logo; Verbal recognition at lunch; Logo on NJTA website.
GOLD Sponsor	\$ 750	Three (3) Complimentary Registrations (<i>In total not each day</i>). Signage with Company logo; Verbal recognition at lunch.
SILVER Sponsor	\$ 500	Total of Two (2) Complimentary Registrations (<i>In total not each day</i>). Signage with Company logo; Verbal recognition at lunch.
BRONZE Sponsor	\$ 375	One (1) Complimentary Registration (<i>In total not each day</i>). Signage with Company logo.
GOLF CARTS Sponsor	RESERVED Vic Gerard Golf Cars	One (1) Complimentary Registration each day. Signage with Company logo; Verbal recognition during lunch program.

Yes, we would love to be a 2013 Field Days Sponsor! (*Reserve your spot now -- we'll send an invoice.*)

Check off a Sponsorship Category: ☐ PLATINUM ☐ GOLD ☐ SILVER ☐ BRONZE

Date _____ Company _____

Contact Person _____

Billing Address _____

City/State/Zip _____

Phone _____ Email _____

Comped Attendees (based on Sponsor Level): 1 _____

2 _____ 3 _____ 4 _____

Indicate which day attending - T (Tues) or W (Weds) after each name.

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SILENT AUCTION

2013

Rutgers Turfgrass Research Field Days

Proceeds Benefit the

*New Jersey
Turfgrass Foundation*

Dear Friend:

June 2013

The New Jersey Turfgrass Foundation will showcase a limited number of items each day at the SILENT AUCTION. Over 800 green industry members from the Northeast and Canada attend both Field Days and can place a bid. Highest bids win the item. All proceeds raised go to the New Jersey Turfgrass Foundation, which directly supports Rutgers research programs.

The New Jersey Turfgrass Foundation invites you to participate with a donation to the 5th Annual Rutgers Turfgrass Research Field Days SILENT AUCTION on Tuesday, July 30th, and Wednesday, July 31st. We will add your Company Name on the Bid Sheets and include your Company Name and logo on signage.

HERE'S ALL YOU NEED TO DO:

Complete and return this form (by mail or fax – contact info at bottom of page) with your Company information, the specific item/s, and the value of the item/s. Include your name and phone number and the preferred day to showcase your item/s – Tuesday or Wednesday.

Executive Director, Cece Peabody, will contact you directly to set up the delivery of your item(s) before Field Days – winners always love taking their items home!

Thank you in advance for being part of the Field Days Silent Auction.

Pedro Perdomo

Field Days Co-Chairman

Tracy Wadhams

Field Days Co-Chairman

Keith Kubik

NJTA Foundation President

Contact Person _____

Company _____

Address _____

Phone Number _____

Email _____

DIRECTIONS to the FARM:

HORT. FARM II:

102 Ryders Lane,
North Brunswick NJ

- Take the NJ Turnpike to Exit 9.
 - Take Route 18-North to Route 1-South.
 - Take the second Ryders Lane exit toward Milltown.
- Move to your left immediately upon entering Ryders Lane.
- Turn left at first break in the median and immediately turn right onto Indyk-Engel Way to parking area.

2013:

Due to construction at Adelphia Farm, both
Field Days will be held at Hort Farm II.

Company	Donated Item/s	Value	Tues or Weds?

Meet our Allied Association

SFMANJ

by Debbie Savard, Executive Secretary

Founded in 2000, Sports Field Managers Association of New Jersey (SFMANJ) is the New Jersey Chapter of the national organization Sports Turf Managers Association (STMA). Over the years SFMANJ has grown its membership, not only from New Jersey, but also from Maryland, Delaware, Pennsylvania, New York and Ontario, Canada.



SFMANJ was formally recognized at the STMA National Conference and Exhibition in Daytona Beach, Florida in January 2013 for the work that we perform for sports field managers in New Jersey and recent additions to our educational outreach efforts. Our Mission Statement reads "Committed to enhancing the professionalism of athletic field managers by improving the safety, playability and appearance of athletic fields at all levels through seminars, field days, publications and networking with those in the sports turf industry." This is exactly our endeavor. We are also well connected with many of the leading universities and professionals involved with turfgrass and sports field research including Rutgers University. Answers to questions regarding sports field management can be handled readily.

Topics addressed by SFMANJ include: Turfgrass species selection, plant/soil fertility, pesticide use and diagnostics, root zone amendments, baseball infield amendments, pitcher's mound and batter's box repair, turfgrass mowing, drainage, irrigation, turfgrass cultivation, topdressing, equipment demonstration, sports field construction, field layout, management, budgets, school IPM, legislative affairs and various other management techniques which improve the safety, playability and appearance of athletic fields.

Each year we hold at least two field days, in the spring and fall, offering education through lectures as well as visual demonstrations. Pesticide credits are awarded to those who attend. The field days also include a trade show, a free continental breakfast and a hot lunch. Most are free to those who wish to attend and some offer free membership.



Our Association also promotes a trade show in co-operation with New Jersey Turfgrass Association and Rutgers University at the Rutgers Lawn, Landscape and Sports Turf Field Day each summer. Hope to see you at this year's event on Wednesday, July 31, 2013 at Rutgers Hort Farm 2, North Brunswick, NJ.

SFMANJ also handles a portion of the educational sessions at the New Jersey Green Expo Turf and Landscape Conference held in Atlantic City, NJ in December each year. Speakers from around the country deliver education to our sports field professionals with the latest information and technology. Pesticide credits, including Category 13 School IPM, are awarded for completion of the sessions.

In addition to our regular field days, SFMANJ holds other events throughout the year such as clinics for local little leagues and district meetings. Anyone interested in hosting such an event can call the office at 856-514-3179.

Our newsletter, *Update*, is published quarterly and is full of timely and informative articles and advertising. Each issue is mailed out but can also be viewed on our website (www.sfmanj.org) or accessed through Michigan State University Libraries (<http://archive.lib.msu.edu/tic/updat>). Here you can also find all past issues dating back to July 2001. Anyone interested in advertising in *Update* should call the office at 856-514-3179 or download a form from our web site.

Our website also contains links to many documents that may be of help with your fields, photos from recent events as well as a calendar of upcoming events that may be of interest to you. There is also a vendor directory with active links for your convenience. Membership registration forms are available for download if you are interested in joining our organization.

Recently, SFMANJ has embraced social media by creating a facebook page. Activity there is starting to pick-up. Also, we have initiated putting a QR code on mailers, newsletters, etc., so get your code reader ready.

With an SFMANJ membership, not only does one receive our quarterly newsletter, but also *Sportsturf*, the monthly publication of STMA. Each issue contains articles written for and by sports field professionals.

continued on page 17

CONTINUED FROM PAGE 16...

You will also receive the annual SFMANJ Membership Resource Directory to help you contact other sports field managers or commercial members to discuss any issues you may have with your fields. Another benefit to membership is a 10% tuition discount on all Rutgers Office of Continuing Professional Education Athletic Field courses.

Any individual, organization, institution, or vendor/supplier who has interest in athletic field safety and playability would benefit by becoming a member of SFMANJ. We represent high school, college, and professional facilities, parks and recreation departments, educators, youth leagues, contractors, and commercial vendors.

SFMANJ members are always welcome to attend our board meetings, which are generally held on the first Wednesday of each month at Hort Farm 2, North Brunswick, NJ. We appreciate member input and thrive on new, fresh ideas from all areas of the sports field industry. We are here for our members and want to bring to them the things that interest and help them the most. Anyone interested in attending, should call us at 856-514-3179 to confirm time and location.

If you would like more information on SFMANJ, please call 856-514-3179 or visit our web site and see what we're all about.

We regret to announce the passing of

Dr. John Meade,

on April 17, 2013, at the age of 84.

Dr. Meade was an Extension Specialist in Weed Science at Rutgers University from 1966 to his retirement in 1992.


John was an outstanding teacher, an excellent researcher, and a friend to all who knew him.

Prior to his retirement in 1992, he was a Professor of Agronomy at Rutgers on the Cook College Campus for 25 years.

Prior to that he did research at the University of Maryland.

His final resting place
will be at the



Brigadier General
W. C. Doyle Veterans Cemetery,
Wrightstown, NJ.



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Clippings | Summer 2013

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The 18th Rutgers Turfgrass Golf Classic is Another Success

by Shaun Barry

As I was writing the title for this article, I realized that I could have used the same title for the last 17 years. It is true that the early events raised fewer dollars and had far fewer golfers, but they were all successful in their own right. The original planners had a dream and they made that dream happen. Their initial foray into running a fundraiser was uncharted territory. They were experiencing what the crew of the Starship Enterprise felt. They were "boldly going where no man had gone before." Everyone knew that fundraisers for great causes were often successful. The question was, is this a cause that the industry would support? That question has been answered with an emphatic YES. The goal for the first event was in the \$5,000 range and that was easily exceeded. That success has blossomed to where we are now. We use 3 golf courses with over 320 golfers and donated a 1.3 million total from those 18 years that keeps growing.

In my mind this is the biggest single day fundraiser for turfgrass research in the world. If I am incorrect I hope somebody will correct me, but I don't expect to get any calls. Why is this so successful? The immediate answer is the

wonderful program at Rutgers. They are blessed with some incredible scientists who keep raising the bar in their field of expertise. This is a great team. They tackle any problem and come up with solutions and recommendations. If the data comes from Rutgers, you know it can be trusted.

In addition to that part of the equation, there is that friendly little competition between Dr. Clarke and Dr. Meyer. Bragging rights (and a nice steak dinner) go to the one who is the most fortunate in recruiting sponsors for this event. Bruce broke a 5 year drought with a win in 2011 when the seed industry was struggling, and last year it was called a draw. This year Bill decided enough is enough and he put on a full court press. By the time his phone's overused battery was replaced, he had an insurmountable lead and Bruce surrendered. Since both are already thinking about next year, it looks like we will have another successful tournament.

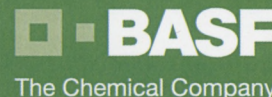
When you look at the list of wonderful companies that respond you will see names that have been Premier Sponsors of this event since the beginning and others that have moved up to that level

continued on page 19



"I used to shivel at the thought of disease or a dry spell. But Insignia® SC Intrinsic™ brand fungicide changed that. With disease control and research proven plant health benefits that give me a better root system, I can handle stresses like drought and moisture events, extreme temperatures, and aeration—better than ever."

Intrinsic brand fungicides don't just fight disease; they give turf the resilience to endure stress. Find out more by contacting Ted Huhn at theodore.huhn@basf.com, 443-206-1095 or Dave Schell at david.schell@basf.com, 410-800-8762.



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The 18th Rutgers Turfgrass Golf Classic

because they just wanted to do more. We have had as many as 15 Premier Sponsors and this year we had 10. That is one more than last year and reflects the changes within the industry. Consolidation and market focus adjustments have reduced the number of companies who are able to support this event.

Our 2013 Premier Sponsors were **BASF, Bayer, Grass Roots, John Deere Golf/Finch Services/John Deere Landscapes, Landmark Turf & Native Seed (new in 2013), Lebanon Turf, Mountain View Seeds, ProSeeds Marketing Inc/Alliance Seed Co, Storr Tractor-Toro and Syngenta Professional Products.** In addition to their support as Premier Sponsors, **Mountain View asked to once again be the Dinner Sponsor.** That additional income went towards Bill's total, but more importantly, it goes directly to the bottom-line.

You may not know every one of the Premier Sponsors but these companies represent the financial foundation that allows us to be successful every year. In addition, we had two **Eagle Sponsors.** They were **Paige Electric and Pickseed/ Seed Research.** Five of our current Premiers were at this level before they moved-up. In the **Par Sponsors** category were **Burlingham Seed Co., The GCSANJ/GCSANJ Foundation, The NJTA/ NJTA Foundation, Quali-Pro and Rutgers Center For Turfgrass Science.**

The companies and associations listed above are really important to the event's success but they alone are not enough. Every past Classic has needed you and your support. Whether it came by bringing a team, being part of a team, being a Hole Sponsor, donating an item to the Silent Auction or bidding on items at the Silent Auction. Your contribution was important and will remain so as the Classic continues to grow. Where would we be without the 81 golf course superintendents who played or the 58 people from our seed companies? We had people from every part of our industry. Turfgrass professionals from other wonderful universities, cemetery people, landscape contractors, lawn care representatives, irrigation companies, tree service attendees, sports field managers, manufacturers, distributors, and as many of the folks from the turfgrass program who could get away from their work and research. You easily get the idea about the universal respect your industry has for The Rutgers Turfgrass Program. We hope it will inspire you to join us in 2014 as we aspire to support our best

www.njturfgrass.org

...continued from previous page

chance at finding the answers to our turfgrass problems.

I want to thank every volunteer who took time from their busy schedule to help. We have a committee of 16 people who met many times during the year so we would be prepared. *Cece Peabody* and her terrific staff gathered all of the incoming info and presented the final list in a way that was easily understood by our volunteers and the club. We also had several Rutgers students and educators (*Sabrina Tirpak & Lisa Beirn*) who found a way to the course early enough to make registration go smoothly. What a relief to have such talented assistance.

Darrell Marcinek and Rick Krok have been co-chairmen of this event and they always help with every part of the day but specifically with the Silent Auction. *Matt Sweatlock and Jim Snow* once again brought their cameras to capture photos of as many people as possible especially The Scarlet Knight. *Karen Plumley and Ron Luepke* joined in with registration and Karen seemed quite delighted giving out the martini glasses to each registrant. I wonder why??? *Ken Krausz CGCS* met every vehicle that came onto the property and directed them to the best registration area. The last of our volunteers are names that you will recognize. They are *Dr. Clarke, Dr. Meyer and Dr. Murphy.* These gentlemen give up the opportunity to play some golf so they can station themselves on one hole so they get to meet everyone playing that course. They do get to hit one shot per group. Whatever type of shot they choose, the team can use it hopefully to lower their team score. This gives them the opportunity to have some fun and also the chance to personally thank everyone for their attendance and support of the program. It is always a thrill for the players and the professors to meet and say hello.

Fiddler's Elbow has gone through some changes both on the course and to their staff. They however did not miss a beat. Everything was great. *Tom Hurley* continues to build on the legacy left by *Dave McGhee* and *Chef Michael* brings his passion and skills to our menu. *Matt Willigan*, along with *Mark Luce, Steve Sax and Chris Sherrington* have taken the gems left by *Tom Breiner* and with lots of vision and hard work have continued to make the courses better. *Joe Galan* and his professional staff came out of the pro shop and pitched in doing whatever is necessary. *Chris Brown* was our contact at the club. This was a recent change for him and we were his first big outing. He did a great job and was always heard saying "no problem" and he meant it. They have a great team at the club and I look forward to working with them again in 2014.

Golf Classic Winners - Congratulations to All!

Rutgers Cup 1st Place: Finch Services - (69)
Paul Brandon, Jeremy Batz, Charlie McGill, Mike Ross

Association 1st Place: TRI STATE - -8
Tony Girardi, Les Kennedy, Scott Niven, Matt Topazzio

Association Last Place: PAGCS - -4
Bill Cimichowski, Ron Gorniak, Warren Savini, Jim Stauring

Forest 1st Place Team: Bayer - 61
John Carpinelli, Tom Grimac, Brian Minemier, Bob Prickett

Forest 2nd Place Team: Syngenta - 63
Dennis DeSanctis Jr, Joe Gardner, Tyler Otero, Dave Pughe

Forest 3rd Place Team: Grass Roots - 64
Paul Dotti, Keith Kubik, Rich Lane, Lance Rogers

Meadow 1st Place Team: Rutgers University, Continuing
Services - 63
Mike Green, Gary Huntzinger, Ken Karamichael, Lou Vetere

Meadow 2nd Place Team: Pickseed/ Seed Research - 63
Robert Clark, Larry Dodge, Byron Johnson

Meadow 3rd Place Team: Tee-2-Green - 63
Melodee Fraser, Jed Hemenway, Andrew Mottei, Lewis Sharp

River 1st Place Team: Grass Roots - 62
Pat Dolan, Ken Kubik, Tim McAvoy, Mark Miedler

River 2nd Place Team: Syngenta - 64
Mike Agnew, Rick Grala, Steve McDonald, Lane Tredway

River 3rd Place Team: Aquatrols - 64
Scott Apgar, Todd Apgar, Andy Moore, Lou Quick

Closest to the Pin:

Forest #8 - Tom Grimac - 6ft 8ins
Forest #13 - Dennis DeSanctis Jr - 2ft 4ins
Forest #17 - Blake Halderman - 4ft
River #8 - Ryan Davidheiser - 3ft
River #14 - Brian O'Malley - 2ft 3ins
River #17 - TJ Hart - 2ft 3ins
Meadow #2 - Jay McKenna - 7ft 4ins
Meadow #11 - Kenny Green - 14ft 9ins
Meadow #17 - Zenon Lis - 6ft 1ins

Men's Longest Drive:

Forest #9 - Jim Devaney
Meadow #16 - Lewis Sharp
River #6 - Jeff Nicolaisen

Women's Longest Drive:

Forest #9 - Mary Lou DesChamps
Meadow #16 - Denise Smith
River #6 - Nancy DiRienzo



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Lee Kozsey 215-796-0409

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NJTA Consults with Rutgers Student MBA Team

Written by: Dennis DeSanctis, Jr.

Even the highest-performing companies get consultation from contracted professionals, just as the best athletes still get coached. It can be easy to fall into daily routines without a critical eye towards measurement, analysis, and improvement; and a fresh set of eyes can add value to even the most mundane procedures. Always striving to evolve, improve, and avoid stagnancy should be a consistent goal for any organization, and with that in mind the New Jersey Turfgrass Association recently reached out to the Masters of Business Administration (MBA) program at Rutgers University and contracted a student MBA team to help improve our association.

This free consultation is offered by the Rutgers MBA program to local companies, and they have such a good reputation for success that it is difficult to be accepted into the program. NJTA was quickly accepted, though, as our project proposal involved a variety of concentrations that were attractive to the group such as marketing, advertising, branding, accounting, financial management, website design, and the consideration of various software programs. Our association's relationship with Rutgers University was also a key factor in the selection process and it quickly became clear that this would become a win-win for all involved.

For four months the NJTA Board and Executive Director worked with the eight member student team, provided them with the history and evolution of the NJTA, and answered all of their inquiries throughout the process. Many of our board members took time to meet with the team on evenings on campus during this process. In February, NJTA members received a survey E-mail from the consulting team which proved to be an important data source. Survey participation was well beyond expectations and exceeded the average number of responses usually obtained by this type of survey. This solid participation (25% response vs. an expected 5%!) is a direct reflection of our dedicated membership and the general professionalism of our great industry.

This process all began during a 2012 NJTA Board meeting when discussing improvements to our association's strategic planning. This conversation triggered memories of my experiences in the Rutgers MBA program where the 'capstone' course was a team consulting project. My experience was on a student consulting team charged with making recommendations for a NJ-based trucking company that was interested in expanding their service region, entering specialized service markets, and improving their brand.

Although not the most exciting topic, it was a great experience and the final report was valuable to the client. After completing a report and giving the final presentation to the client the students get their grade and graduate, leaving it solely up to the client to implement the numerous recommendations. The best recommendations are worthless if clients can't implement and maintain the suggested changes; this is what the NJTA is now tasked with.

On April 28th the MBA consulting team gave their final presentation to the NJTA Board of Directors and Executive Director. It was comforting to hear from this group of outsiders that our association was in excellent shape and on a good path toward improvement and growth. They suggested some improvements and internal upgrades to our accounting practices and software, enhancements to our membership database and how to improve its utilization, and various recommendations for the website, branding, etc. Once these internal upgrades are implemented we expect that our membership will benefit from the outcomes, and that the health of our association will continue to improve.



Although many changes are now underway, our mission remains the same:

"The New Jersey Turfgrass Association's 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."

Please help us kick-start our improvement efforts by encouraging your colleagues to join the NJTA and attend the events throughout the year. I hope to see you in July at the Rutgers Field Days.

What Mildews Affect Ornamental Plants? *continued from pg 7*

(willow), Spiraea, Syringa (lilac), Ulmus (elm), Vaccinium (blueberry), Viburnum, Wisteria, Zinnia.

Disease development

Look for powdery mildews in the landscape during the late spring to early fall months. The disease most commonly appears as a white to tan superficial growth on the surface of affected leaves and other aerial tissues. Powdery mats of fungal mycelia produce conidia (asexual spores) that are carried by the wind to susceptible host tissue the entire growing season. Young plants and tissues are often more susceptible to this disease; although the fungus does not directly kill the cells it invades, infection does result in a reduction of photosynthesis and an increase in water loss. As a result, the growth rate and aesthetic value of infected plants may be reduced. Leaves may be stunted, curled, or twisted; in highly susceptible plants, new growth, flowers, and buds can be destroyed.

Powdery mildew fungi overwinter in a characteristic fruiting structure called a chasmothecium (formerly, cleistothecium) that is the result of a sexual reproductive process. Chasmothecia are dark, tiny spheres (about the size of coarse ground pepper) that can often be seen on infected

tissues later in the growing season. During the spring of the following year, these fruiting structures release spores (called ascospores) that start the infection cycle for the new season. In warmer climates or in greenhouses, the formation of chasmothecia may not be observed; the disease may persist all year as mycelia and conidia. In other cases, the fungus may enter buds and survive the winter there.

Powdery mildew conidia germinate and penetrate host tissues in about 6 hours, and under favorable conditions, new mycelium and spores are produced within 4 to 6 days. Although the development of powdery mildew is most rapid during periods of warm weather (80oF day/60oF night), damage due to the disease can be actually more severe at cooler temperatures (70oF day/50oF night).

Management

To manage powdery mildew in ornamental plantings, improve air movement around plants through proper spacing and weed control, and increase the amount of sunlight that reaches foliage. In the spring, rake old leaves and prune shoots (during dry weather) infected the previous growing season to reduce inoculum. Water plants during droughty periods. Practices that promote succulent growth, including pruning and nitrogen fertilizing, should be avoided during the summer on susceptible hosts. Purchase disease-free plants, and use cultivars resistant to this disease whenever possible.

There are many compounds labeled for powdery mildew control. Most of these products are applied at the first sign of disease; consult the label, however, for timing, rates, and appropriate hosts. Check your local Cooperative Extension office for products that are labeled in your state.

Note: To reduce the possibility of the development of fungal resistance to some of the newer systemic fungicides with single or few modes of action, rotate these chemicals with protectants such as mancozeb. Avoid the sole use of any fungicide for extended periods of time when other reliable products are available, and refer to label for timing, host plants, and rates.

(1) <http://www.apsnet.org/edcenter/illglossary/Pages/default.aspx>



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CALENDAR

2013 EVENT DATES

Tuesday, July 30, 2013

Rutgers Turfgrass Research Field Days

GOLF & FINE TURF

Hort Farm II, North Brunswick NJ

Wednesday, July 31, 2013

Rutgers Turfgrass Research Field Days

LAWN, LANDSCAPE, & SPORTS FIELDS

LOCATION CHANGE:

***** Hort Farm II, North Brunswick NJ
(Adelphia Farm is under construction)***

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

GREEN EXPO

Turf & Landscape Conference

*Trump Taj Mahal Resort Casino,
Atlantic City NJ*

RUTGERS EXTENSION OFFICES & NUMBERS

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RCE of Burlington County	(609) 265-2900
RCE of Camden County	(856) 566-5757
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.
973-812-6467 • execdirector@njturfgrass.org*

New Jersey Turfgrass Association

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Phone (973) 812-6467 • Fax (973) 812-6536

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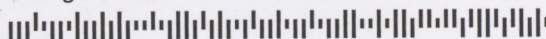
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Dr. James B Beard

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.

www.rcrc.rutgers.edu/services