

new jersey turfgrass association

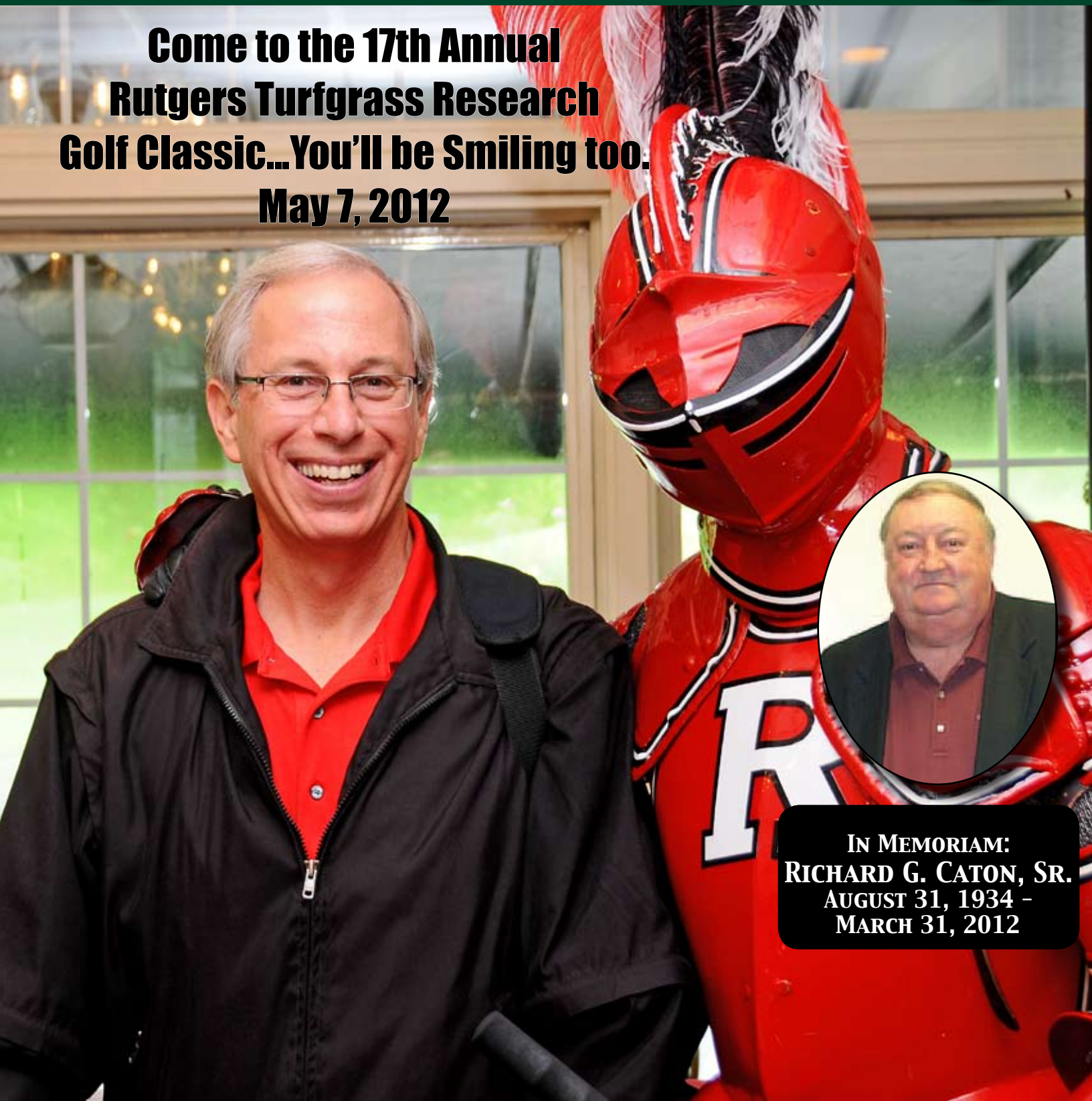
Green
World



clippings

Issue 1: 2012 - Spring | VOL 82

**Come to the 17th Annual
Rutgers Turfgrass Research
Golf Classic...You'll be Smiling too.
May 7, 2012**



**IN MEMORIAM:
RICHARD G. CATON, SR.
AUGUST 31, 1934 -
MARCH 31, 2012**

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President's Message

by Matt Sweatlock, NJTA President



I should start this letter talking about spring cleanup; however, this past winter, we went from fall cleanup directly into spring. According to The National Oceanic and Atmospheric Administration, New Jersey had one of the warmest and driest first quarters (January 2012 – March 2012) on record. Instead of discussing snow removal and winter damage, March's discussions included the lack of rain/snow melt and whether or not pre-emergent control needed to be applied before the end of March. April has brought us seasonable temperatures, but precipitation totals remain well below normal. The NJDEP currently lists New Jersey Reservoirs and the Delaware River Basin Commission at or near normal levels, however precipitation totals have continued to register below normal for the last 90 days.

Membership is the key to any association. The New Jersey Turfgrass Association is comprised of a diverse group of professionals with a common bond -- turfgrass. We are landscapers, golf course superintendents, sod growers, irrigation specialists, cemeterians, manufacturers, suppliers, dealers, sports field and parks managers, school groundskeepers, nurserymen, landscape contractors, educators, scientists, and students. Many of us are involved with the allied associations within our specialized fields. This diversity makes our association strong. The board is comprised of members of the different groups, adding a well-balanced approach to its governance. This diversity coupled with the association's partnership with Rutgers Center for Turfgrass Science enables the NJTA to provide its members with the best educational opportunities in the country. I urge members to take advantage of the programs offered through the association.

The National Labor Relations Board deadline for employers to post the Employee Rights notice is April 30, 2012. Information on this "right to organize" posting and copies of the notice can be found at <http://www.nlrb.gov/poster>.

Our Association is sound with 2012 membership nearing 800. The Field Day Committee met, and preparations are underway. We have 35 exhibitors registered for the Green Expo 2012 so far. The Expo Education Committee has been working on the educational portion of the conference. Our next event, The Rutgers Turfgrass Research Golf Classic is to be held on May 7, 2012. The proceeds are used to assist the turf program at Rutgers University, enhancing the turf industry.

Take advantage of all your association offers...and check our website for the latest updates on events.

Faithfully submitted,

Matthew M Sweatlock
President, NJTA

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Please keep us informed of any changes
to your member profile
(Company/Address/Email)

Call Us • Email Us • Mail Us

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**New Jersey
Turfgrass
Association**

NEXT EVENT:



**Monday
May 7, 2012**

How Are We Doing?

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



Yes, we want to ask...How Are We Doing?

We thank you for your membership in NJTA...whether you're an individual or a company with many members. Evidence shows that our numbers are growing and we expect to crest 800 members this year...that's huge.

Are you getting what you need from the NJTA?

Are we providing the information you seek in our quarterly magazine, *Clippings*? Do you actively use the annual Membership Directory to connect with and do business with other members? Have you taken advantage of the registration discounts offered for Field Days and the Green Expo?

Any organization needs to have an ear to the comments of its members and continually seek to improve the benefits they provide. Growth is listening to the good as well as the not-so-good and doing a better job.

NJTA has a strong voice in the turfgrass industry and we do our best to represent your interests with science-based information when current legislative issues impact us...that's one great reason we are so actively involved with the research and professors at Rutgers Center for Turfgrass Science.

If we can do a better job to make your membership experience and investment have more value to you, then reach out -- by phone or email and share your concerns, questions, or comments. Or if you see me at one of our events, take a few minutes and talk to me. Things can't change if no one shares.

Cece Peabody
Executive Director

"It is impossible for a man to learn what he thinks he already knows."

-- Epictetus

Support Yourself by Supporting the Rutgers Turfgrass Research Golf Classic

by Shaun Barry, *Golf Classic*

There is an old expression about “preaching to the choir” and it is still used to this day and everyone understands what it means. That is what I am doing today. This brief reminder is about the **Rutgers Turfgrass Research Golf Classic on May 7, 2012**. Many of you will have this date on your calendar and are probably scheduled to attend. You may be bringing a team from your company or your club. Every industry that helps make the NJTA such a diverse and active group is represented. You may be attending as a guest with another team or you may be attending by yourself knowing that you will be paired with an old friend or a soon-to-be new friend. It is a day that once you attend you will want to return to enjoy the day and all that it offers and also because you know how successful this tournament has been in supporting turfgrass research.

In the last 16 years, over \$1,100,000 has been raised and it has been raised solely for the purpose of funding turfgrass research at Rutgers. The results that have come out of Rutgers have been used throughout the world. If you get to attend, you know that your support is going to help you and others do their jobs better when the time comes that help is needed.

In addition to the good feeling of helping that is shared by everyone, there are many other benefits. Each year Rutgers offers an hour of educational talks that not only enlighten, but also allow participants the chance to earn credits from NJ, NY, PA and GCSAA. If you get the chance to join the field of more than 330 golfers, you will enjoy one of Fiddlers Elbow’s three Championship courses. You will also enjoy a wonderful breakfast and dinner in the clubhouse with a hot burger or dog out on the course. The highlight of the day for some is when they get to “Meet the Professors” during their round of golf. On each course your group gets to meet one of the professors from the Center For Turfgrass Research. Last year it was **Dr. Bruce Clarke, Dr. Bill Meyer, and Dr. James Murphy**, and most likely they will be back for a return engagement. Their goal is to meet everyone personally and to help you hit a shot that could benefit your team. That might be a tee-shot or a chip or a putt depending upon the professor’s individual skills.

When the golf is finished, your fun continues with a grand cocktail hour with lots of wonderful hors d’oeuvres that are to become your dinner. If you wish something different be sure to try the pizzas fresh out of their outdoor pizza-oven. Last year we consumed over 125 pizzas. It was quite a hit. While this is all going on you will have a chance to participate in the silent auction. **Darrell Marcinek** and **Rick Krok** have gone to great lengths to find items that are of interest and useful for work or pleasure. Get a number and start bidding. You will have lots of company who just might try and steal the items you want.

There is a brief introduction by Dr Clarke. He has lots of people to acknowledge. He has to thank all of the sponsors especially the Premier Sponsors and he never misses the superintendents and the wonderful staff at the club. This is done while everyone is still enjoying their dinner. Soon the silent auction is completed, the winners are identified by the pro-shop, and prizes are given out and everyone heads home or they continue the day either by sitting out on the patio or inside but in every case they are laughing and smiling with friends. It is the final touch to a great day.

I hope you can join us. Call Cece at the NJTA office if you have any questions [973-812-6467].



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Turfgrass Insecticides and Their Safety for Applicators, Non-Targets, and Environment

by Dr. Albrecht M. Koppenhöfer, Ph.D.,
Turfgrass Entomology

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

While the implementation of the Food Quality Protection Act of 1996 has led to the loss or use restriction of many insecticides, particularly of organophosphates and carbamates, it has also enhanced efforts by the chemical industry to bring to market new insecticides classes with better toxicological and environmental profiles. Several product with new active ingredients (AI) have become available over the last few years including one anthranilic diamide (chlorantraniliprole), one oxadiazine (indoxacarb) and two neonicotinoids (thiamethoxam, clothianidin). Currently at least 21 AIs belonging to 11 pesticide classes are labeled for the control of turfgrass insect and/or mite pests in New Jersey (Table 1 - next page).

Most of the newer AIs tend to have a narrower spectrum of pests against which they are very effective, but most of them still cover most of the important pests against which most applications are targeted. Many of these new compounds have a long residual activity and thus can cover several of the important insect pests with one application if applied at the optimal rate and time (see article in Clippings Summer 2011). At the same time, they are much less toxic to applicators and vertebrate non-target organisms (mammals, birds, fish; see Table 2 - page 8) and many beneficials (bees, predators, parasitic wasps and/or parasitic flies).

The toxicological data for technical grade (high purity) AIs in presently labeled insecticides/miticides are listed in Table 2. Individuals in a test population vary in their susceptibility to different toxins. Therefore toxicity is generally quantified as LD50 and LC50 values. These are the lethal dosages (LD = directly administered to organism) and lethal concentrations (LC = concentration in water) that kill 50% of the individuals in a test population. The more toxic a material is, the lower is the value and the less material is needed to kill the target. Materials with the lowest LD50 value for rats (the most common mammalian test organism) tend to be the most toxic to humans and mammals in general. Materials with low LD50 values for bees should be avoided in areas where bees are active (weedy turf).

When assessing the toxicity of a control product to the applicator, the concentration of the AI in the formulation has to be considered (see MSDS for specific products). Obviously, the lower the concentration of AI in a formulation, the lower the danger for the person dealing with the formulation, generally when mixing the product. However, a lower AI concentration in the formulation (such as in granular formulations) does not change the amount of toxicity applied as that is based on amount of AI per treated area.

In assessing the potential effects on the public, non-target organism, and the environment in general, the use rates of the material have to be considered. For example, the LD50 for rats is very similar for trichlorfon and imidacloprid resulting in similar dangers to the person handling the concentrated product (e.g., Dylox 80 vs. Merit 75 WP). But imidacloprid is used at 5 to 26 times lower rates than trichlorfon making it generally safer for non-targets and the environment. However, newer products can be even safer. Thus, chlorantraniliprole has a 12-fold lower toxicity to mammals than imidacloprid and is applied at 1/3 the rate (against white grubs), resulting in a further 36-fold reduction in the amount of toxicity applied.

To give a better idea about the relative toxicity load for the environment of the various compounds, I have used the following formula: average use rate (lbs AI per acre) \times toxicity (1/LD50 or LC50) \times 1,000. For mammalian safety, trichlorfon, chlorpyrifos, and carbaryl (9.1–16.3) have the highest toxicity load among presently available insecticides, whereas chlorantraniliprole, halofenozide, spinosad, clothianidin, cyfluthrin, and indoxacarb have the lowest (0.02–0.1). For avian safety, the organophosphates and carbaryl have the highest toxicity load (1.3–5.9), whereas all pyrethroids, imidacloprid, spinosad, halofenozide, indoxacarb, chlorantraniliprole, and clothianidin have the lowest (0.01–0.13). For fish safety, the pyrethroids are by far the most problematic (10,000–666,667), followed by carbaryl (2,500) and chlorpyrifos (125), whereas chlorantraniliprole, imidacloprid, and indoxacarb have the lowest toxicity load (0.01–0.15). Regarding bee toxicity, the

continued on page 7

Turfgrass Insecticides..*continued*

Meet Nicholas Polanin

pyrethroids and carbaryl have the highest toxicity load (5,000–7,143) followed by acephate, chlorpyrifos, halofenozide and imidacloprid (750–1,667), whereas chlorantraniliprole, clothianidin, indoxacarb, and trichlorfon have the lowest (25–109).

Taken together, the lower toxicity of the AIs and the lower average use rates of products containing these AIs result in products containing the newer AIs generally being much less hazardous to non-targets and the environment than those with older AIs (especially organophosphates and carbamates). Based on these considerations, the safest synthetic insecticide presently used in turf is Acelepryn (AI chlorantraniliprole) followed by Provaunt (indoxacarb), Conserve (spinosad), and Arena (clothianidin). These products seem to be also relatively safe for naturally occurring predatory and parasitic insects. The other newer products are also rather safe but have some toxicity issues with fish (halofenozide) or honey bees (halofenozide, imidacloprid, and spinosad).

As a note caution, the reader has to consider that various other factors can also come into play in determining how a product affects non-target organism such as application method (e.g., spray vs. granular), residual activity, toxicity of chemicals into which the AI breaks down over time, water solubility, systematic activity, etc. Hence, the reader should always carefully read the pesticide label in order to be aware of special precautions to be taken in mixing and applying a specific product.



Nicholas Polanin is currently an Associate Professor (County Agent II, with tenure) with Rutgers University, New Jersey Agricultural Experiment Station, Cooperative Extension in Somerset County. Since joining Rutgers University in 1999, Nick has been nationally recognized for his leadership and educational initiatives in training arborists and other tree care professionals, workforce and volunteer development, distance education, research and outreach in ornamentals, and communication. He currently serves as statewide coordinator for the Rutgers Master Gardener Program active in 18 of NJ's 21 counties. Nick holds an MS in Horticulture/Urban Forestry (1989), and a BS in Natural Resource Management/Forestry (1982), both from Rutgers University.

We welcome Nick to the NJTA Board of Directors!

Table 1. Synthetic insecticides and miticides labeled for turfgrass in 2011.

Common name (IRAC ^a)	Trade names	ABW, adult / larva	Ants	Armyworms	Billbugs adult / larva	BTA	Chinch bugs	Crane flies	Cutworms	Fleas	Greenbug	Leafhoppers	SWW	Ticks	White grubs	Wasps	Clover mite	WGM
Carbaryl (1A) ^c	Sevin	- / X	X	X	- / X	-	X	X	X	X	-	X	X	X	X	-	-	-
Acephate (1B)	Address, Orthene	- / -	X	X	- / -	X	X	-	X	X	X	X	X	-	-	X	-	-
Chlorpyrifos ^{b,c,d} (1B)	Dursban	X / X	X	X	- / -	X	X	X	X	X	X	X	X	X	-	-	X	X
Trichlorfon (1B)	Dylox	- / X	-	X	- / -	-	-	-	X	-	-	-	X	-	X	-	-	-
Bifenthrin ^b (3)	Talstar	X / -	X	X	X / -	X	X	-	X	X	-	X	X	X	-	-	X	-
Cyfluthrin ^b (3)	Tempo	X / -	X	X	X / -	X	X	-	X	X	-	X	X	X	-	X	-	-
Deltamethrin ^b (3)	DeltaGard	X / -	X	X	X / -	X	X	-	X	X	-	X	X	X	-	-	-	-
Lambda-cyhalothrin ^b (3)	Battle, Scimitar	X / -	X	X	X / -	X	X	-	X	X	-	-	X	X	-	X	X	-
Permethrin (3)	Astro, Permethrin	- / -	X	X	- / -	-	X	-	-	X	-	X	X	X	-	X	-	-
Halofenozide (18A)	Mach 2	- / X	-	X	- / X	-	-	-	X	-	-	-	X	-	X	-	-	-
Clothianidin (4A)	Arena	- / s	X	X	- / X	-	X	X	-	-	-	-	X	-	X	-	-	-
Imidacloprid (4A)	Merit, Enforce	- / s	-	-	- / X	-	s	-	s	-	-	-	X	-	-	X	-	-
Thiamethoxam (4A)	Meridian	- / s	-	-	- / X	-	s	-	-	-	-	-	-	-	-	X	-	-
Indoxacarb (22)	Provaunt	- / X	-	X	- / -	-	-	X	X	-	-	-	X	-	-	-	-	-
Chlorantraniliprole (28)	Acelepryn	- / X	-	X	- / X	-	s	X	X	-	-	-	X	-	X	-	-	-
Spinosad (5)	Conserve	- / X	-	X	- / -	X	-	-	X	-	-	-	X	-	-	-	-	-
Hydramethylnon (20a)	Amdro, Maxforce	- / -	X	-	- / -	-	-	-	-	-	-	-	-	-	-	-	-	-
Abamectin B1 (6)	Advance	- / -	X	-	- / -	-	-	-	-	-	-	-	-	-	-	-	-	-
Bifenthrin+imidacloprid ^b (3+4A)	Allectus	X / X	X	X	X / X	X	X	X	X	X	-	X	X	X	X	-	X	-
Bifenthrin+clothianidin ^b (3+4A)	Aloft	X / X	X	X	X / X	X	X	X	X	X	-	X	X	X	X	-	X	-
Dicofol (3)	Dicofol, Kelthane	- / -	-	-	- / -	-	-	-	-	-	-	-	-	-	-	-	X	-

X = label claims control; s = label claims suppression only; ABW = annual bluegrass weevil (*Hyperodes*); BTA = black turfgrass ataenius adults; SWW = sod webworms; WGM = winter grain mite.

^a IRAC = Insecticide Resistance Action Committee mode of activity classification (use for rotation schemes); ^b Restricted use pesticide: may be purchased and applied only by certified applicator. ^c Amount may not exceed 1 lb ai/acre. ^d Not for use on residential turf.

^e Insecticide class: 1A = carbamate; 1B = organophosphate; 3 = pyrethroid; 4A = neonicotinoid; 5 = spinosyn; 6 = Avermectin; 18A = diazophthalazine; 20a = aminohydrazone; 22 = oxadiazole; 28 = anthranilic diamide.

NOTE: no endorsement of named products is intended, nor is criticism implied of similar products not mentioned

Table 2. Ecotoxicological characteristics of active ingredients in insecticides/miticides for turfgrass in 2011^a.

Chemical name	Use rates (g AI/ha)	Oral LD ₅₀ (mg/kg) ^b		Rainbow trout LC ₅₀ (ppm) ^c	Bee LD ₅₀ (µg/bee) ^d	Water solubility (mg/L)
		Rat	Mallard duck			
carbaryl	2.0–8.0	550	> 2179	2	0.1	40.0
acephate	1.0–3.0	906	350	> 1000	1.2	790000
chlorpyrifos	1.0	97	170	8	0.6	2.6
trichlorfon	5.5–8.2	400	> 5000	430	59.8	136000
bifenthrin	0.04–0.11	62	2150	< 0.1	< 0.1	0.1
cyfluthrin	0.05–0.1	1070	> 5000	< 0.1	< 0.1	2.0
deltamethrin	0.03–0.13	96	> 4640	< 0.1	< 0.1	2.0
λ-cyhalothrin	0.03–0.12	100	> 3950	< 0.1	< 0.1	0.005
halofenozide	1.0–2.0	> 5000	> 5000	9	> 100.0	12.3
clothianidin	0.2–0.33	> 5200	> 2000	> 100	4.0	327
imidacloprid	0.3–0.4	424	> 4797	> 8300	0.4	514
thiamethoxam	0.2–0.266	1563	576	> 100	0.1	4000
spinosad	0.076–0.395	> 5000	> 2000	30	0.1	235
indoxacarb	0.0375–0.22 5	999	> 5620	650	0.2	0.2
chlorantraniliprole	0.026–0.225	> 5000	2200	> 15000	> 4.0	1.0
dicofol	0.25–0.5	493	2214	0.12	> 100.0	0.8

^a Toxicological data based on active ingredient are from Etoxnet (2010) or MSDS sheets. For simplicity, average values are given for compounds where ranges were listed.

^b EPA toxicological classifications: < 10 = very highly toxic; 10–50 = highly toxic; 51–500 = moderately toxic; 501–2000 = slightly toxic; > 2000 = practically non-toxic.

^c EPA toxicol. class.: < 0.1 = very highly toxic; 0.1–1 = highly toxic; 1–10 = mod. toxic; 10–100 = slightly toxic; > 100 = practic. non-toxic.

^d EPA toxicol. class.: < 2 = highly toxic; 2–11 = mod. toxic; 11–100 = slightly toxic; > 100 = practic. non-toxic.



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Count on it.

Good Things Have Been Happening at the **Rutgers Center for Turfgrass Science**

1. Bingru Huang Named Ralph Geiger Endowed Chair in Turfgrass Science



Bingru Huang (Plant Biology and Pathology) was approved as the Ralph Geiger Endowed Chair in Turfgrass Science by the Rutgers University Board of Governors (BOG) on October 12. Huang succeeds Bruce Clarke (Plant Biology and Pathology; director of the Rutgers' Center for Turfgrass Science), who was named the inaugural chair in 2005.

Huang, an expert in turfgrass stress physiology, joined the faculty in the Department of Plant Biology and Pathology

at the School of Environmental and Biological Sciences in 2000 and has served as the Director of the Graduate Program in Plant Biology.

"Bingru Huang is among a cadre of outstanding young scientists at Rutgers who are enthusiastically and deeply engaged in teaching and mentoring our students," said Bob Goodman (executive dean). "Her particular expertise in turfgrass tolerance to environmental stresses was highly sought by Rutgers and has led to fruitful collaborations with several institutions across the globe," added Goodman.

The BOG resolution praised Huang for having "greatly expanded our understanding of how environmental stress affects plant health through her outstanding work, which has solved complex problems in basic research and applied that research to practical problems in turfgrass management."

Huang earned her Ph.D. from Texas Tech University. Prior to coming to Rutgers, she was an assistant professor at Kansas State University for four years.

The Ralph Geiger Endowed Chair in Turfgrass Science was funded by an endowment from Ralph Geiger, an avid golfer and philanthropist who donated generously to the Rutgers Center for Turfgrass Science.

The center is regarded as one of the premier research, teaching, and outreach institutions of its kind in the world and its cultivars can be found everywhere from New York's Central.

2. Here is an article about **Bingru Huang's** being selected as a fellow in the American Association for the Advancement of Sciences (AAS) a very prestigious group of scientists in the US. She was one of three RU professors to be so honored in 2011. <http://news.rutgers.edu/medrel/news-releases/2011/12/three-rutgers-profes-20111212>

3. Graduate Student National Awards:

• **James Hempfling** (Plant Biology and Pathology) received 2nd place in the Graduate Student Oral Paper Competition at the 71st Annual Meeting of the Northeast Division of the American Phytopathological Society in New Brunswick, NJ. His presentation was titled "The effect of mechanical injury on anthracnose severity of annual bluegrass turf," co-authored with Jim Murphy and Bruce Clarke (Plant Biology and Pathology).

Rutgers Plant Biology graduate students won awards for the following presentations at the Annual Meeting of the Crop Science Society of America held in San Antonio, TX:

□ **David Jespersen** - Turfgrass Stress Tolerance (Oral Presentations): Identification of proteins associated with heat-induced and genetically-controlled leaf senescence in cool-season grass species.

□ **Lisa Beirn** - Turfgrass Pathology (Oral Presentations): What Is the true identity of the fungus that causes Dollar Spot on turfgrass?

□ **Emily Merewitz** - Turfgrass Stress Tolerance (Poster Presentations): Identification of differentially expressed genes in Creeping Bentgrass with elevated Cytokinin content under drought stress.

□ **Katelyn Venner** - Poster Presentation: Response of Tall Fescue cultivars to Mesotrione applied at establishment.

Good Things Have Been Happening at the **Rutgers Center for Turfgrass Science...**

continued from pg 9

□ **James W. Cross** - Poster Presentation: Responses of Tall Fescue Genotypes to heat and drought stress.

4. **Bruce Clarke** (Plant Biology and Pathology) received the Visionary Leadership Award from the Epsilon Sigma Phi National Extension Society at its annual meeting in Syracuse, NY, on October 12. This award is presented to an Extension professional whose visionary leadership has enabled Extension to anticipate emerging needs and develop relevant programs to support stakeholders in the state, region, or nation.

5. **William Meyer** (Plant Biology and Pathology) was awarded the Breeder's Cup Award for developing Mallard Kentucky bluegrass by the Turfgrass Breeder's Association at the Crop Science Society of America meeting in San Antonio, TX, on October 19.

6. **Bruce Clarke** (Plant Biology and Pathology) was selected to receive the Fellow Award from the American Phytopathological Society (APS). Clarke was chosen as one of fewer than 12 individuals selected each year out of a membership of 5,000 plant pathologists. He will be presented the award at the opening at the annual APS meeting in Providence, RI, on August 5.



Dr. Bruce Clarke



Dr. William Meyer



Left to Right: Back: James Hempfling, David Jespersen, Katelyn Venner, Emily Merewitz
Front: James Cross, Lisa Beirn

NJTA's First Executive Director, Richard Caton, Passes Away: 1934 - 2012

by Steve Chirip

"Dr. Richard Caton", "Dick Caton", "Doc" -- he went by a few different names but to all who knew him he was FRIEND. Dick passed away on March 31, 2012.

The first part of his life was spent working in the school system all the way to where he was a school superintendent. He was later introduced to the turfgrass industry by no other than Dr. Henry Indyk. He soon became the first Executive Director for NJTA.

He was thorough and very well organized and did his job with the upmost professionalism. He did have his moments usually when speaking to large groups you never were quite sure which joke would come out.

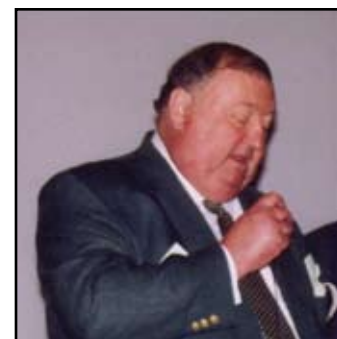
There were quite a few things that Dick helped with -- The Grand Reception at EXPO, the splitting up of Field Days into Fine Turf and Lawn and Landscape, and The Golf Classic to name a few. As Executive Director, NJTA grew and flourished. As a President of NJTA, I worked closely with "The Big Guy" and it was always interesting.

People would ask "Who is Dick Caton?" We can say now he was a Father, a Husband, a Grandfather, a Father-in law, and a Brother-in-law. He was proud to say he was a Berwick Bulldog and a Bloomsburg Huskie, a darn good trumpet player, teacher and always a joke teller. He was proud of his sons. He would take them to the car races and he used to tell me "how much trouble could they get into if they were with the old man on a Friday night". His lovely wife Margie passed before him and this really took a lot out of the man as she was his biggest fan.

Dick was awarded one of NJTA's highest awards a couple of years ago at Green EXPO. I know he was proud to get such recognition and treasured the award.

One of his favorite sayings was "the world is run by those who show up". So if you would like to honor the man, volunteer for a NJTA Committee, do something in your home town, step up, show up, and make a difference.

All who knew Dick will miss him. Rest in peace my friend.



Longtime friends attend
the celebration of Dick's life on April 14.



Schedule of the Day

8:00 A.M.	REGISTRATION OPENS
8:30 A.M. - 9:30 A.M.	BRUNCH FOR PREMIER SPONSORS BREAKFAST FOR ALL
8:30 A.M.	SILENT AUCTION OPENS
9:30 A.M. - 10:30 A.M.	**EDUCATION UPDATES ON RUTGERS RESEARCH
11:00 A.M. TO 4:00 P.M.	GOLF SHOTGUN - SCRAMBLE FORMAT LUNCH ON THE COURSE
4:00 P.M. TO 5:00 P.M.	COCKTAIL HOUR & SILENT AUCTION
5:30 P.M.	SILENT AUCTION CLOSES
5:00 P.M. TO 6:00 P.M.	GRAND RECEPTION & GOLF AWARDS

2011 Premier Sponsors

We are proud to thank these 2011 Premier Sponsors of the Sixteenth Annual Rutgers Turfgrass Research Golf Classic: **BASF, BAYER, Cleary Chemical, John Deere Golf/Finch Services, Mountain View Seeds, ProSeeds Marketing & Alliance Seed, Storr Tractor Company, Syngenta, and The Scotts Company.**

The commitment of these companies to provide Premier Sponsorship Level funding to this Golf Classic represents a significant alliance with growing commercial entities which hopefully will be sustained and increased in the future.

How Sponsorship Will Help in 2012

Partial proceeds of this year's Golf Classic will be used to construct a new sand-based root zone in 2013-14 -- a total of 25,000 square feet at Hort Farm II for golf and sports field research. For more information on how to contribute to this fund, please contact Dr. Bruce Clarke at (848) 932-6295 or Dr. William Meyer at (848) 932-6222.

Come Celebrate With Us!

MONDAY, MAY 7, 2012

17th Annual Rutgers Turfgrass Research Golf Classic...

FIDDLER'S ELBOW COUNTRY CLUB

811 RATTLESNAKE BRIDGE ROAD
BEDMINSTER TOWNSHIP, NJ 07921
(908) 439-2123

REGISTER ONLINE: WWW.NJTURFGRASS.ORG

MANY THANKS to the 2011 PREMIER SPONSORS!



The Golf Classic Event - May 7, 2012

Proceeds from the **Rutgers Turfgrass Research Golf Classic** will be used to provide Research Grants, Scholarships, Funds for Special Projects (e.g., a new Sand-Based Root Zone), Equipment, Supplies, and Facilities to support Rutgers Research and Education at the School of Environmental and Biological Sciences/Rutgers, The State University of New Jersey.

Rutgers University and the New Jersey Turfgrass Foundation represent a formidable alliance in support of the Turfgrass Industry in the State of New Jersey and across the country. The Foundation is a non-profit organization which accepts and manages tax-deductible monetary donations and the proceeds from events such as this Golf Classic.

Sponsorship Opportunities

Premier Sponsor - \$7,500 Premier Sponsors are an elite group.

- Three Foursomes • Complimentary Golf on Sunday, May 6, 2012
- Recognition on NJTA website and in press releases • New Business membership in NJTA
- Brunch with Rutgers Center for Turfgrass Science Professors
- Display Product literature and Samples • Four (4) Complimentary 1/4 Pg Ads in *Clippings*
- Company name on Sponsor Banner & Signage • One Room Upgrade to Suite at Green Expo
- Listing on Sponsor Sign at Entrance to Grand Reception • Tee or Green Sign - each course.

Eagle Sponsor - \$5,000

Two Foursomes

- Opportunity to Display Product Literature or Samples
- Company name on Sponsor Banner & Signage Recognition
- Listing on Sponsor Sign at Entrance to Grand Reception
- Three (3) Additional Grand Reception Tickets • Tee or Green Sign - each course.
- Name1 _____ Name2 _____ Name3 _____



Birdie Sponsor - \$3,500

- One Foursome • Company Name on Sponsor Banner & Signage Recognition
- Listing on Sponsor Sign at Entrance to Grand Reception
- Tee or Green Sign - each course.
- Two (2) Additional Grand Reception Tickets
- Name1 _____ Name2 _____

Par Sponsor - \$2,000

- One Foursome • Signage Recognition • Tee or Green Sign
- Listing on Sponsor Sign at Entrance to Grand Reception
- One (1) Additional Grand Reception Ticket
- Name _____

Hole Sponsor - \$500

- One Ticket to Grand Reception • Signage Recognition
- Name _____

Additional Sponsorships:

Golf Club Patron
\$200
Signage Recognition

Scarlet Tee Club
Minimum \$50 and upwards

NJTF TAX ID: 22-3270805

NEW JERSEY TURFGRASS FOUNDATION | 25 US HIGHWAY 46 WEST, WAYNE NJ 07470

PH: (973) 812-6467 | FAX: (973) 812-6529 | WWW.NJTURFGRASS.ORG

Golf Classic Registration Information

Complete form and mail or fax (973) 812-6529 to NJTF Office. Online: www.njturfgrass.org

Name: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____ Fax: _____

E-mail for Confirmation: _____

Requested Foursome (Please Print Names):

1. _____ Hdep Index/Avg Score _____

2. _____ Hdep Index/Avg Score _____

3. _____ Hdep Index/Avg Score _____

4. _____ Hdep Index/Avg Score _____

Payment Information

Please Select Sponsorships and Golf & Reception Choices Below:

- ☐ Premier \$7,500 * ☐ Eagle \$5,000 * ☐ Birdie \$3,500 *
☐ Par \$2,000 * ☐ Hole \$500 ☐ Golf Club \$200
☐ Reception \$100 ☐ Individual Golfer \$325* ☐ Scarlet Tee Club (Min \$50)

* **Registration Includes:** Rutgers Research Update, Greens Fees and Golf Cart, Breakfast, Lunch on course, Silent Auction, Grand Reception, Gift

Make Checks Payable to: **NJTF (New Jersey Turfgrass Foundation)**

Amount Enclosed: \$ _____

Check # _____ Visa _____ Mastercard _____ AMEX _____

Name on Card: _____

Card Number: _____ / _____ / _____ / _____

Security Code: _____ Expiration Date: MM/YY _____

Billing Address: _____

Signature: _____



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

How about a bio about you and your company? And a picture too...

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!



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Syngenta offers a portfolio of products for golf, lawn care and sod farms. We have products you need to maintain healthy turf.

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732 -580-5514

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January 14, 2012:
Winners of the 2011 Golf Classic
Silent Auction Item --
COOKING WITH CHEF JIM --
enjoying their day
in the kitchen.



Thanks to Shaun Barry
for taking
all the great photos!





"Bring the heat, Mother Nature."



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"I used to shiver at the thought of disease or a dry spell. But Insignia® SC intrinix™ 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 salinization—better than ever."

intrinix brand fungicides don't just fight disease; they give turf the resilience to endure stress. Find out more by contacting Ed Humm at edhumm@usf.com, 413-236-1055 or Dave Schell at dave.schell@usf.com, 413-236-0707.

Please read and follow label directions. © 2012 BASF Corporation. All rights reserved.

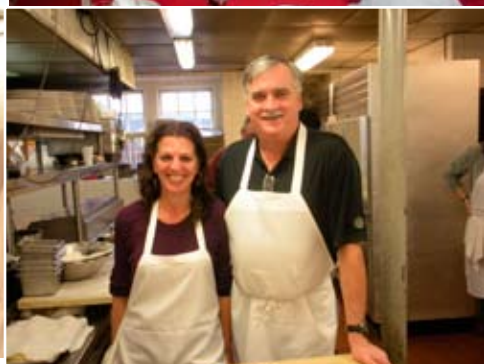


BASF

The Chemical Company



Looks like
a good time
was had by all!



Bryan Bolehala

Technical Sales Representative
201-874-8060

Bryan.Bolehala@clearlychemical.net

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www.clearlychemical.com

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Mount Laurel, NJ
25 Roland Avenue
Mount Laurel, NJ 08054
Phone: (856) 273.5939
Fax: (856) 273.0998

Golf Course Representatives:
Brian Gjelsvik (973) 670.7139
Brian Bontemps (845) 239.7959

Egg Harbor, NJ
1617 Mays Landing Road
Egg Harbor Township, NJ 08234
Phone: (609) 653.6900
Fax: (609) 926.4531

Lance Seeton (609) 471.6797
Golf Course Representative:
Bill Cimochowski (609) 923.4045

Warminster, PA
620 Louis Drive
Warminster, PA 18974
Phone: (215) 355.5655
Fax: (215) 420.7387

Golf Course Representatives:
Michael Linkewich (267) 688.8900
Steve Rudich (610) 349.9519

NJTA at the NJNLA Show (New Jersey Nursery and Landscape Association)



Above:

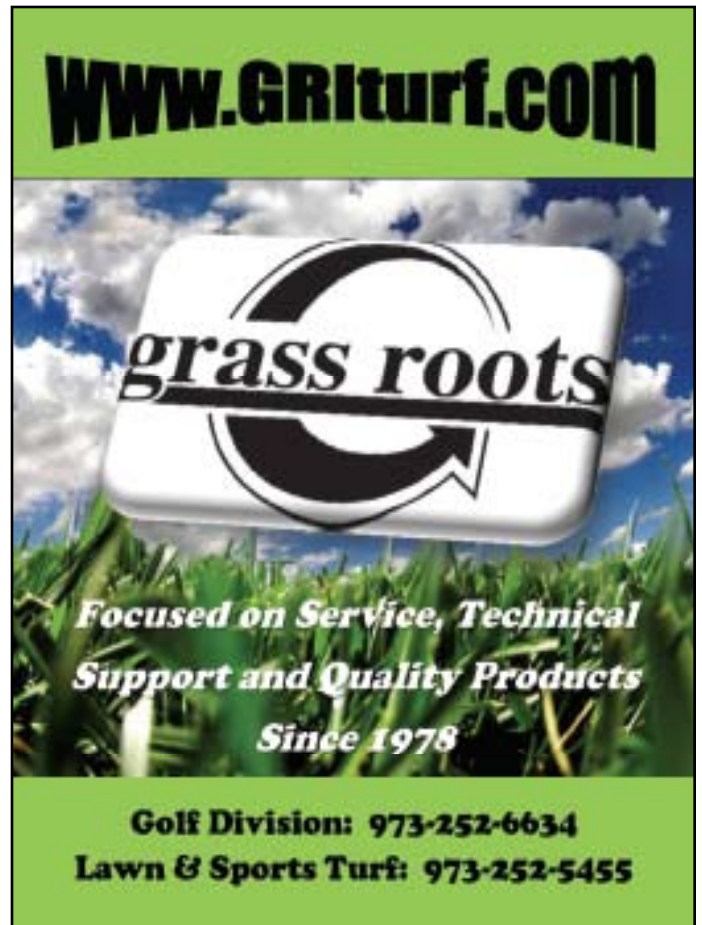
President, Matt Sweatlock and Director, Thom Ritchie, meet and greet at the NJTA booth.

Right:

Cece Peabody, Executive Director, and Thom Ritchie



NJTA and several allied associations attend each other's shows to inform, show support, and increase awareness about the turfgrass industry.



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. - Demonstratoin 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 on the next page to Renew or Become a New member
of the New Jersey Turfgrass Association. Thank you.*



MISSION: To promote the Turfgrass industry and enhance the environment through education, professionalism, leadership, and our partnership with Rutgers, The State University of New Jersey.

Individual or Business Partner Information *(Please Print Clearly)*

Primary Member Name: _____
 Company Name: _____
 Title: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Fax: _____
 E-Mail: _____

Business Partner: Additional Member Information

Please complete. If needed, use another sheet for 5 or more members.

1. Name: _____
 E-Mail: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____ Fax: _____
 2. Name: _____
 E-Mail: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____ Fax: _____
 3. Name: _____
 E-Mail: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____ Fax: _____

New Jersey Turfgrass Association MEMBERSHIP APPLICATION

Please Select a Membership Level below: _____ Renewal _____ New

- ☐ **I - Business Partner \$ 275.00** ☐ **III - Individual Member \$ 80.00** (1 person)
 (Up to 4 members)
☐ **II - Addl Business Partner** ☐ **IV - Student Member \$ 20.00** (1 person)
 (5 or more) Each is \$ 60.00

Benefits of NJTA Membership

- * Savings on GREEN EXPO & Field Days Registration Fees
- * Opportunities to earn Pesticide Applicator License Credits
- * *Clippings* Quarterly Newsletter
- * Outreach & Education impact in Trenton
- * Access to Education & Research at Rutgers
- * Membership Directory
- * Support of Rutgers University's Turf program and facilities
- * Website: www.njturfgrass.org
- * Marketing Opportunities in NJTA publications
- * Participate in events that raise scholarships for the NJ Turfgrass Foundation

Which category best describes your business or profession:

- ☐ Golf Course
- ☐ Lawn Care Applicator
- ☐ Landscape/Lawn Maintenance
- ☐ Cemetery
- ☐ Irrigation
- ☐ Sod Producer
- ☐ Parks & Recreation
- ☐ Schools & Athletic Fields
- ☐ Manufacturer/Supplier
- ☐ Professional (Architect, University)
- ☐ Student
- ☐ Other _____

Payment Information

_____ Check *(payable to NJTA)* _____ Visa _____ MasterCard _____ AmEx

Account #: | _____ | _____ | _____ | _____ | _____ | _____

Exp. Date: (MM/YY): ____/____/____ 3 Digit Security Code: _____

Name on Account: _____

Authorized Signature: _____

NJTA Annual Dues *(January 1 - December 31)*: \$ _____

NJ Turfgrass Foundation Contribution: \$ _____

Outreach & Education Contribution*: \$ _____

(*This portion is non-deductible.)

Total Amount Enclosed: \$ _____

Mail to: 25 US Highway 46 West
 Wayne NJ 07470-6801
 Phone: (973) 812-6467

Fax to : (973) 812-6529
 E-Mail: execdirector@njturfgrass.org
 Web Site: www.njturfgrass.org

Cece Peabody, MAT, CMP
 Executive Director
Updated 9/2009

**New Jersey Fertilizer Law
Regulating the Application, Sale,
and Use of Fertilizer for Turf by Professionals**

New Jersey Act, P.L. 2010, c. 112 (http://www.njleg.state.nj.us/2010/Bills/PL10/112_.PDF), enacted 5 January 2011, addresses the application, sale, and use of fertilizer for both professional and retail applications to turf; it does not apply to the application of fertilizer to commercial farms. This fact sheet addresses aspects of the law concerning professional applications of fertilizer to turf. Information on the impact of the law for retail fertilizers can be found elsewhere.

A "professional fertilizer applicator" is any individual who applies fertilizer for hire, including any employee of a government entity who applies fertilizer within the scope of employment. No professional fertilizer applicator may apply fertilizer to turf without first obtaining a fertilizer application certification, or training if applying fertilizer under the direct supervision of a certified professional fertilizer applicator.

The New Jersey Agricultural Experiment Station at Rutgers University, in consultation with the Department of Environmental Protection, has established the training and certification program required by law. The Professional Fertilizer Applicator Certification and Training (ProFACT) program is an internet based certification program (<http://profact.rutgers.edu>) that provides professional fertilizer applicators with training and education in five subject areas as outlined by the law: i) proper use and calibration of fertilizer equipment; ii) correct interpretation of fertilizer labeling; iii) best management practices for nutrient management in turf; iv) hazards of excess nutrients to the State's water bodies; and v) applicable laws, rules, and regulations.

Certified Fertilizer Applicators (CFAs) are those professionals responsible for decision-making regarding fertilizer application and use. Professionals must have received training and pass an exam to become certified, which can currently be done through an online program (<http://profact.rutgers.edu>). Training for CFAs is more extensive than for trained fertilizer applicators.

Trained Fertilizer Applicators (TFAs) are professionals that may apply fertilizer under the direct supervision of a CFA. Direct supervision means that the CFA provides the TFA with written instructions regarding the fertilize application and maintains immediate voice communication (radio or mobile phone). Trained fertilizer applicators must be trained but do not need to take an exam.

More details on the certification and training program are available on the "instructions" page at <http://ProfACT.rutgers.edu/Pages/instructions.aspx>.

The law requires Rutgers NJAES to publish a list of professional fertilizer applicators on its internet website. The listings will be enhanced for sorting in the future and currently provide names in alphabetical (last name) order. Links to the lists are provided below.

Certified Fertilizer Applicators: <http://ProfACT.rutgers.edu/Pages/Certified-Applicators.aspx>

Trained Fertilizer Applicators: <http://profact.rutgers.edu/Pages/Trained-Applicators-List.aspx>

**New Jersey Fertilizer Law
Regulating the Application, Sale,
and Use of Fertilizer for Turf by Professionals**

Enforcement of the Law

This law may be enforced by any municipality, county, local soil conservation district or local health agency. A local soil conservation district may institute a civil action for injunctive relief in Superior Court to enforce this law and to prohibit and prevent a violation of this law and the court may proceed in the action in a summary manner.

Thus, enforcement will occur at the local government level using the prohibitions, restrictions and penalties established by the law. You should direct your inquiries or requests for enforcement to local officials in municipal and county government or local soil conservation districts (<http://www.state.nj.us/agriculture/divisions/arc/nrc/conservdistricts.html>).

Violations and Penalties

Any professional fertilizer applicator who violates the New Jersey Fertilizer Law is subject to a civil penalty of \$500 for the first offense and up to \$1,000 for the second and each subsequent offense, to be collected in a civil action by a summary proceeding under the "Penalty Enforcement Law of 1999," P.L.1999, c.274 (C.2A:58-10 et seq.).

If the violation is of a continuing nature, each day during which it continues shall constitute an additional, separate and distinct offense. The Superior Court and the municipal court shall have jurisdiction to enforce the provisions of the "Penalty Enforcement Law of 1999".

Preemption

The provisions of the law preempt any ordinance or resolution of a municipality, county or local health agency concerning the application of fertilizer to turf, except that municipalities are allowed to establish penalties for persons other than a professional fertilizer applicator or person who sells retail fertilizer.

Any person, other than a professional fertilizer applicator or person who sells fertilizer at retail, who violates this act, or any rule or regulation adopted pursuant thereto, may be subject to a penalty, as established by municipal ordinance, to be collected in a civil action by a summary proceeding under the "Penalty Enforcement Law of 1999," P.L.1999, c.274 (C.2A:58-10 et seq.). The municipal court shall have jurisdiction to enforce the provisions of the "Penalty Enforcement Law of 1999".

For general inquiries about the certification and training program, contact the ProFACT administration team at:
Email: profact@aesop.rutgers.edu

Mailing Address:

- ProFACT
Department of Plant Biology and Pathology
Rutgers, The State University of New Jersey
59 Dudley Road
New Brunswick, NJ 08901-8520

Phone: 848-932-6373



2012

RUTGERS TURFGRASS RESEARCH FIELD DAYS

Mark your calendars for this year's event - Golf and Fine Turf on Tuesday, July 31 and Lawn, Landscape & Sports Fields on Wednesday, August 1, 2012. .

If you are looking for information on product effectiveness, BMPs for disease and fertilizer management, or the latest cool season varieties for the North East you will find it here.

If you need pesticide credits, we have them for you whether you need New Jersey credits or you are coming from surrounding states such as New York or Delaware.

Guess what everyone! We have a Silent Auction set up near the registration area. So please take a few minutes to visit and look over the items, perhaps there is something you need or want there. All proceeds go to the New Jersey Turfgrass Foundation, which serves to help the Rutgers University Turfgrass program.



In the next few weeks you may receive a notice of a program survey on our website. Please take a few minutes to visit our website and fill it out as it will give us information on how to improve the field days.

One last thing to remember is that we will have a bar becue lunch when everything is said and done. So fill up with good food, but do save some room for the delicious brownies!

Field Day
Registration forms,
opportunities for
Sponsorship and
Donations to the
Silent Auction
will be posted on
www.njturfgrass.org

2012 EVENT DATES

Monday, May 7, 2012

Rutgers Turfgrass Research

GOLF CLASSIC

Fiddler's Elbow Country Club

Far Hills, NJ

Tuesday, July 31, 2012

Rutgers Turfgrass Research

FIELD DAY 1:

Golf & Fine Turf

Hort Farm II, New Brunswick NJ

Wednesday, August 1, 2012

Rutgers Turfgrass Research

FIELD DAY 2:

Lawn, Landscape & Sports Fields

Adelphia Farm, Freehold NJ

Tuesday - Thursday

December 4-6, 2012

GREEN EXPO

Turf & Landscape Conference

Taj Mahal Resort, Atlantic City NJ

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) 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

New Jersey Turfgrass Association

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

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

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

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Dr. Bruce Clarke, Advisor

Dr. Jim Murphy, Advisor

Cece Peabody, MAT, CMP, Executive Director

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