



THE Greenerside

Official Publication of the Golf Course Superintendents Association of New Jersey

Regular inspection and maintenance are keys to a reliable irrigation system

By Robert Healey, A.S.I.C./C.I.D.
Irrigation Management Services

Your golf course irrigation system should be treated like any other piece of equipment on the golf course—and given periodic inspection and maintenance to ensure proper operation.

The irrigation system is most often the single most expensive tool a superintendent has to control the growing cycle of their turf. Yet amazing little, if any, scheduled inspection and maintenance programs are in place on many golf courses.

Fairway and greens mowers receive tender loving care: washing after each use, daily oil checks, greasing, reels lapped, blades re-sharpened or replaced, and often repainting yearly. Yet this golf course runs the irrigation system into the ground, until something breaks, and then you hear about what a lousy system they have—it's always breaking.

How long would your fairway or greens mowers run efficiently and effectively if all you did was to add gas, as needed? Would you be happy with the result of the cut or performance that these “non-maintained” mowers give, or their durability? No, of course not! Yet this is how irrigation systems are sometimes treated.

The superintendent needs to apply the same maintenance and inspection standards given to a 25-40K dollar mower, as to the 300-500K dollar irrigation system.

Today, most golf course maintenance departments have full-time equipment mechanics on staff. These professionals work strictly with your equipment, doing PM service and repairs, and keep your equipment in top operating condition. How many superintendents, who have a mechanic, have an irrigation specialist who does only irrigation? That sound we all just heard was a collective, “Not me!” Take a total of all your mechanical equipment, and, in many cases, the value would not reach that of your irrigation components. Yet there is a mechanic, but no irrigation specialist.

Let's say your fairway mower breaks and you have no backup. You can go two or three days before repairs, borrow a mower from a neighboring course or supplier, adapt

rough mowers as an emergency backup or buy a new one. All you have lost is two or three days of cutting, maybe a few unhappy members who complain of the tall grass, but

The superintendent needs to apply the same maintenance and inspection standards given to a 25-40K dollar mower, as to the 300-500K dollar irrigation system.

little, if any, permanent damage to the turf or course.

Let your irrigation system break and go “down” for two or three days. In some weather conditions, one day with no

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Editorial



Let's Make Time

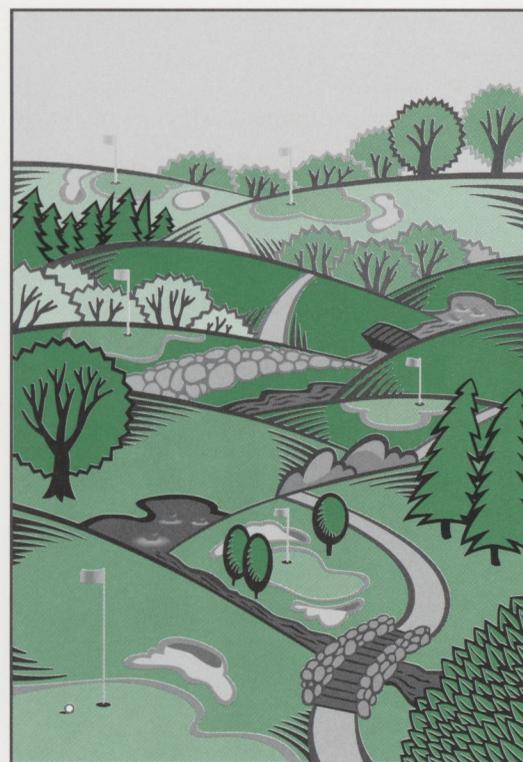
Another golf season is in full swing now, the grass is growing, the golfers are golfing and the pressures are mounting. Welcome to the life of a golf course superintendent. Is the crew all in today, are the machines all ready to go; do we have enough supplies to keep things nice?

What about the other side of your life? How is the family, have we spent some time with the wife (or husband) and the kids? Let's make sure that we don't forget about the home life, schedule a date for a family outing, get the course in shape and leave it for an afternoon.

Ok, now that you are ready to go I have the perfect time and place: The GCSANJ 75th Anniversary Family Picnic and Tree Planting Ceremony, Sunday, July 15th. The details are still coming in, but you can be sure that by July 15th you will be ready for a few hours break from the course. Reserve this date and look for details soon; I am sure that it will be a great afternoon.

The 75th Anniversary Committee is also finalizing plans for a dinner cruise for the summer's end. Another great evening I am sure.

The Greenside would like to welcome Joe Kinlin to its list of contributing writers. Joe is a member of the Class "C" Committee, and he has volunteered to research and write the Member Profile each month. Members that volunteer are what makes this association as strong as it is. Thank you, Joe, and everyone else for your work that makes GCSANJ strong.



Ken

President's Message

Ed Mellor, Superintendent, Colts Neck Golf & C.C.

Recently Chris Carson asked me if I knew the definition of the GCSANJ's purpose. I was embarrassed to say that I did not know. I have read and referred to the bylaws many times while on the Board of Directors, but I could not tell him what our mission statement is. I told him that I thought it referred to education and professionalism. He then let me off the hook and told me that he had "forgotten it" as well. In case you are confronted with the same question, the answer is on the first page of the GCSANJ's "Constitution, By-Laws and Standing Rules" in the back of your directory. Section 3, I quote, "the purpose of this Association shall be to promote professional improvement through the education and cooperation of its membership."

I know of no other group of individuals that can band together like the members of the GCSANJ. Over and over I have seen our members reach out to one another to help a member in need. Whether it's a loss of a relative or a job, or that you need help with a problem with your course and need to borrow equipment. Maybe you need additional manpower for a tour event, or just can't identify that funny looking patch on your third green, there always seems to be someone you can call. More often than not, it seems effortless to find a helping hand in a time of need. It really makes a person feel good to be part of a group like this one.

In regard to the other half of our mission statement, Bruce Peebles conducted a survey recently. Although only a few members responded, the results of this survey were that there was not enough education available to our members. This surprised me. I find I'm away from the golf course at least once a month at some sort of education opportunity. There are a number of vendors, such as Pro Lawn or Grass Roots, that put on a nice, *free*, seminar in the winter. The Delaware River Basin Commission has its advanced turf grass symposium. Of course, there is a GCSANJ meeting each month between April and November at a different golf course. I find I pick up a new idea at each course that I visit.

In addition to all those opportunities, later this year, New Jersey will be hosting two GCSAA seminars. "Managing a Multicultural Workforce" is the title of the first one. This will be the Monday before Expo kicks off at the Taj Mahal. I just took the "Multicultural Workforce" course in Dallas. I can highly recommend it. It wasn't exactly what I expected, however, it was very insightful. The second GCSAA seminar has yet to be determined, but will be held in January.



In short, the Education Committee continues its effort to ensure there is an opportunity for all our members to find something educational. If you have any other suggestions, please don't hesitate to contact your Education chairman.

I know of no other group of individuals that can band together like the members of the GCSANJ. Over and over I have seen our members reach out to one another to help a member in need.

With that said, I think the GCSANJ is doing a good job living up to its mission statement. Thanks, Chris, for bringing this to my attention. I think it's a good idea to evaluate your goals periodically. ♪

Calendar

- May 21** **GCSANJ May Monthly Meeting**, WILDWOOD GOLF & COUNTRY CLUB. Host Superintendent, Jeff Staeger. Contact Judy Policastro at 973-379-1100.
- June 25** **GCSANJ June Monthly Meeting**, LAKE MOHAWK GOLF CLUB. Host Superintendent, Eric Carlson. Contact Judy Policastro at 973-379-1100.
- July 15** **GCSANJ 75th Anniversary Picnic and Tree Planting Ceremony**, CRESTMONT COUNTRY CLUB. Host Superintendent, Pete Pedrazzi Jr. Contact Judy Policastro at 973-379-1100.
- July 16** **Joint Meeting with the Philadelphia Golf Course Superintendents Association and GCSANJ**, THE BEDENS BROOK CLUB. Host Superintendent, Benny Peta. Contact Judy Policastro at 973-379-1100.
- August 2** **GCSANJ/RUTGERS UNIVERSITY FINE TURF RESEARCH FIELD DAY**. Hort Farm II. Contact Judy Policastro at 973-379-1100.
- Sept. 17** **GCSANJ INVITATIONAL**, SHACKAMAXON GOLF & COUNTRY CLUB. Host Superintendents, Jack Martin & Mark DeNoble. Contact Judy Policastro at 973-379-1100.

Regular inspection and maintenance are keys to a reliable irrigation system

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water will result in irreversible turf damage, let alone two or three days. When your irrigation system is “down,” often repairs must be done that day to prevent severe turf damage. Too often the value of the irrigation system is not appreciated until it goes “down.” Superintendents must be prepared for these “down” times, to limit them and limit the time needed to get on-line again. Different reasons can cause a golf course irrigation system to go “down.” By identifying these reasons and being prepared, the superintendent can eliminate or limit the “down” time in many cases.

The pumping system is one such area. Pumps can fail or power can be lost during storm conditions. I strongly recommend having an emergency backup PTO pump. All golf courses should have a PTO pump that will connect to your tractor, and to piping previously installed, in your pump house to enable you to bypass the “down” pumping system and, at a minimum, provide water to your tees and greens.

Second, the superintendent should modify their irrigation systems isolation valves to minimize the area of the course that needs to be shut down in case of a main line pipe break.

Third, the superintendent should maintain an irrigation parts inventory to handle the most common failures, so parts

If several heads in line or in a group suddenly become weak or inoperative, this is a sign that a rock or other debris has entered the line, clogging a valve, or that your pipe has sprung a leak.

needed for the repairs are on hand. These parts include all sizes of pipe and repair couplings, isolation valves, electric valves, quick coupling valves, swing joints, fittings, concrete for thrust blocks, a spare satellite, wire tracer, wire, wire connectors, volt meter and other necessary parts unique or common to your system.

Fourth, set up an irrigation inspection program, and learn to identify and repair malfunctioning irrigation equipment before it becomes a problem. In season, an irrigation specialist should be conducting daily monitoring. This technician should continually inspect the entire system as follows:

- A. All greens – weekly
- B. All tees – weekly
- C. All fairways – over two weeks
- D. Pumping – daily
- E. Meters – daily
- F. Entire course – daily check for leaks

The Typical Daily Inspection Should Follow These Guidelines:

1. Tour course, looking for areas that did not receive water or received too much, look for puddles, washouts or draining heads. This is usually done first thing in the morning.
2. Inspect three to five greens and tees daily.
3. Inspect two to three fairways a day.
4. Check pumping system and monitor meters daily.
5. Superintendent checks and adjusts, as needed, irrigation scheduling.

The inspection should take about four to five hours daily, thus leaving time for repairs or PM services that need to be done.

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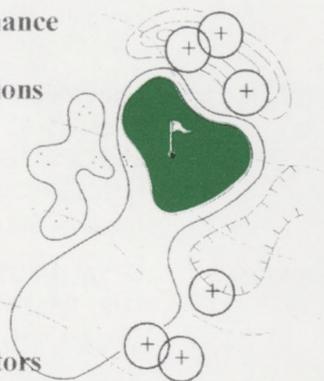
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Reliable irrigation system

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When checking Green, Tee or Fairway Sprinklers, Use the Following Guidelines:

1. Check coverage (full or part), be sure sprinkler is covering the area of its intent, measure radius of throw, be sure head is turning completely. See if any surrounding trees or shrubs are blocking coverage and trim these plants.
2. Check disbursement at nozzles, nozzle pattern and look for clogged or getting clogged nozzles. Minor problems can usually be taken care of in a few minutes time by removing the nozzle, cleaning and flushing the head or riser.
3. Check pressure at discharge of nozzles, use a Pitot tube and log for future reference and comparisons. If several heads in line or in a group suddenly become weak or inoperative, this is a sign that a rock or other debris has entered the line, clogging a valve, or that your pipe has sprung a leak. Following your pipe layout plan, it is easy to locate the area of probable trouble.
4. Check case to see if clean (impact heads in particular); remove sand, grass or debris.
5. Check height of head, be sure discharge is clearing grass,

be sure case is not being hit by mowers, check level of turf, be sure no scalping is occurring around head and be sure head is still level.

6. Once or twice a year, check nozzle size. Use a drill bit to compare to original size. Even brass nozzles will eventually erode and enlarge, and thus change flow rate, coverage and Pr. Rates.

7. Check for weeping at all Valve-in-Heads and electric valves. Weeping usually indicates debris that has to be flushed out or cleaned out. If this doesn't work, visually check tubes or diaphragm, and clean, blow out or replace as needed.

8. Check low heads that are draining: they may indicate a weeping valve or you may need check valves.

9. Check satellite for zones, review scheduling, look at connections at controller box, check for animal damage or insect larvae buildup.

10. Log all work and keep records as to nozzle size, pressure at head radius of coverage and speed for revolutions (especially important in two-speed heads). Major changes

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Reliable irrigation system

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in the time for one complete turn can indicate developing problems in the sprinkler.

These logged records, by comparison, can show a beginning of pressure loss, radius loss and identify many other developing situations before they develop into bigger problems. *Good records can often identify problems before a visual inspection can.*

When Checking Valves, Use The Following Guidelines:

1. Check access to all valve boxes, where applicable.
2. Check flow controls.
3. Check all wire connections.
4. Check to ensure electric valve shuts down and opens, electrically and manually. If a single valve doesn't open, check solenoid, wiring or tubes. Check your plan for wire or tube route from satellite and track to locate break or weak link. Look at areas of new construction or recent work. If problem is electrical it can be common wire or power. Testing for continuity can help isolate the type of problem. If several zones are down, check satellite for both input and output power. If good, check area to first zone for damage to power or common wires. Target areas of recent work.
5. Check all gate and ball valves to ensure they open and close, and all reach tubes are clear of debris and accessible. Leaking around the top of a manual valve indicates that the packing nut needs tightening. Leaking through the valve means that either a stone or debris is between the disc and seat or a damaged disc. Applying more pressure does no good; open and close the valve several times to try to flush the blockage. Then if still leaking, open, inspect seat or disc, and repair or replace as needed. *Remember, if you just flushed the blockage, the debris has gone somewhere else in the*

system. If you are lucky enough to be on a dead-end line, now is the time to flush the end of the line.

6. Check pressure setting on all pressure regulating valves against log data, to ensure proper setting. A difference of five to ten pounds can seriously affect intended Pr. Rates.

Check pressure setting on all pressure regulating valves against log data, to ensure proper setting. A difference of five to ten pounds can seriously affect intended Pr. Rates.

When checking Field Satellites, use The Following Guidelines:

1. Check connections.
2. Check grounding and test once or twice yearly.

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Reliable irrigation system

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3. Check irrigation schedule; test manual operations of zones checked that day.
4. Test for continuity and voltage output and input to satellite.
5. Check and clean out larvae.
6. Test any rain moisture or shut off devices.
7. During winter, possibly remove satellites for storage.
8. Have on hand wire tracking tools to locate weak or broken wires.

When Checking Pipes Use These Guidelines:

1. Traverse pipe route looking for puddles, flowing water, wet spots, places where mowers suddenly scalped turf, neighborhood kids surfing down the 18th fairway, and new lakes or ponds that have appeared overnight.
2. With help, activate zones and listen for water hammer sounds or unusual pipe noises.

Like any other piece of equipment, a golf course irrigation system needs a scheduled PM program for optimum operation. Proper use of your system and proper procedures in daily maintenance inspections help keep the system running at peak efficiency. The time spent in a complete irrigation inspection, maintenance and preventive maintenance program will help ensure limited "down" times.

Plan now to start off this irrigation season with a detailed irrigation maintenance program in place. Sit down with your irrigation technicians and develop the program. Set up the method(s) to collect data, what data to collect, how to log, how to file the date and a typical weekly inspection round. Be sure you have on hand for the irrigation technicians any and all equipment and tools they will need.

Again, your irrigation system is most likely your most expensive and complex tool. Treat it so. With respect and care you will be the beneficiary over the years, and other superintendents will wish they had a system like yours that never goes "down." Just lucky, I guess!

The time spent in a complete irrigation inspection, maintenance and preventive maintenance program will help ensure limited "down" times.

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Member Profile

An Interview with Todd Raisch, Greens and Grounds Superintendent, Ridgewood C.C.

By Joe Kinlin
Assistant Superintendent
Arcola C.C.

I recently had the pleasure of meeting with Todd Raisch, the Greens and Grounds superintendent of Ridgewood Country Club. Todd is currently preparing the grounds of Ridgewood for the 2001 Senior PGA Championship. Regardless of the fact the tournament is less than seven weeks away, Todd took the time to sit down with me to share some of his insights and experiences about our business.

Todd was a finance major in college, but a passion for the game of golf and a summer job on a golf course convinced him that there was no other job for him than that of golf course superintendent. He returned to Ohio State and completed his Bachelor of Science in Business Administration/Finance in 1992, then returned to complete a Bachelor of Science in Agronomy 1994. Todd has worked at Worthington Hills C.C., Myopia Hunt Club and Double Eagle Club before coming to Ridgewood C.C. Todd has been at Ridgewood since 1995 and became the superintendent in November of 1996. Todd resides in Ramsey, New Jersey, with his wife Susan and daughter Elly.

JK: Todd, what made you choose this industry?

TR: I have always had a passion for the game of golf, liked being outdoors and worked for a superintendent one summer who was very encouraging; he really got me into the business.



JK: Who are the people that have been inspirational in your career?

TR: All four superintendents that I have worked for: Marty Szturm, Dave Heroian, Terry Buchen and John Gasper. They have helped me tremendously along the way.

JK: What would you consider your finest/greatest accomplishment both personally and professionally?

TR: Well, personally would definitely be having a great family, and the birth of our daughter Elly. Professionally, that is coming at the end of May with Ridgewood hosting the Senior PGA Championship.

JK: What is the toughest part of the business? Easiest?

TR: I would say that people are the toughest; it's difficult having 450 bosses. Easiest for me personally would be the business end, because of my educational background.

JK: What is your take on new technology in our industry (i.e. computerization/ fertigation, etc.) coming out. Do you jump right into it or stick to old school values of agronomy?

TR: I like to consider myself very progressive, however, I wouldn't ever just jump right in, specifically with chemicals. I like to hear or see if something works first.

JK: Ridgewood C.C. is hosting the 2001 Senior PGA Championship May 21-27. What has been the most difficult thing in preparing for the tournament?

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Member Profile

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TR:Time...Most clubs get 4 or 5 years to prepare for an event like this, a major championship. We were given 18 months. We were told in November of 1999 that we were going to host the event.

JK:Have there been any special projects or preparations for the event?

TR:Well, one great thing I have found with the PGA is that they do a great deal of work to prepare for the event. And they have been a tremendous help in the whole process. The impact on the golf course has really been minimal. Some new accesses have been created, but damage has been limited to areas like the driving range, where we are planning a complete renovation this fall. Also the championship is planned for a great time of year, my only concern being poa and seed head suppression.

JK:Ridgewood has three great 9-hole layouts, the East, West and Center. Which 9's will play host to the championship?



TR:Well, that's a great question because the PGA has chosen to set up a composite course; by this I mean using holes from all three nines. The course for this championship will be 300 yards longer than the course played for the 1990 U.S. Senior Open. And, in my opinion, what the PGA has done is take about three birdie holes out and put three bogey holes in, creating a terrific challenge of golf.

JK:What is your normal staff and how many people is it going to take to host this championship?

TR:Well, our seasonal staff is 37, winter staff of 15. And I feel I will need 70 people on staff during the a.m. shifts to do everything that needs to be done.

JK:One last question, Todd, then I will let you go. Do you need any volunteers?

TR:Of course I would gladly accept anyone who wants to help out, just give me a call.

JK:Todd, thanks again for taking the time and good luck with the tournament. I will be there to help you out.

TR:And thank you, Joe, never a problem. ☺



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GCSANJ news

GCSANJ ONLINE

By Steve Kopach
Superintendent, Mountain Ridge C.C.
GCSANJ Web Master

A few month's ago, John O'Keefe asked if I would help out with developing a web site for the association. He felt that developing a web site from a superintendent's perspective would be a good thing. I agreed and started working on the web site.

I felt that the MSN community's site was a good place to start. You could have the web site up and running in no time. I developed it as an inactive site on purpose. This way every superintendent would be tailoring their needs when they entered information into it. The site can be reached by typing in the address, <http://www.gcsanj.org>. You will receive a set of instructions underneath the GCSANJ logo once you have reached the homepage. These instructions will lead

you through the process of signing up for an e-mail account. This account will allow you access to the site.

It is important to log-on with this account every time you go back to this site. This can be done by clicking on either the "join now" or "passport sign-in" at the top right of the page. If you don't see either of these messages or a "passport sign-out" at the top right of the page, you are already logged in and are set to use the site. If you still have a problem entering a message, the server where the site is hosted is busy. This usually happens at peak times like evening and noon. Try a different time or check back after a few minutes. These same problems exist when you are trying to connect through your Internet service provider. I guess the best advice I could offer is to be patient and try all the features on this web site.

The most powerful section of this site is the message boards. The message board page shows everything that is listed in the turf help desk, used equipment, the online survey and the help wanted pages. You can post messages and photos on any of these pages. You can subscribe to receive an e-mail when someone replies to your posting, allowing you to see it immediately or when you have time. The golf course links page is the place to enter the address of an interesting site. There is a chat room on the discussion groups page. Hopefully, in the future, we will be able to schedule guests from the turf industry to hold chat sessions or offer scheduled help sessions. The possibilities are limitless. The best thing for the site is to have you sign-up for it and set aside time to use it.

If you have any problems, please feel free to e-mail me at skierslick@hotmail.com ☺

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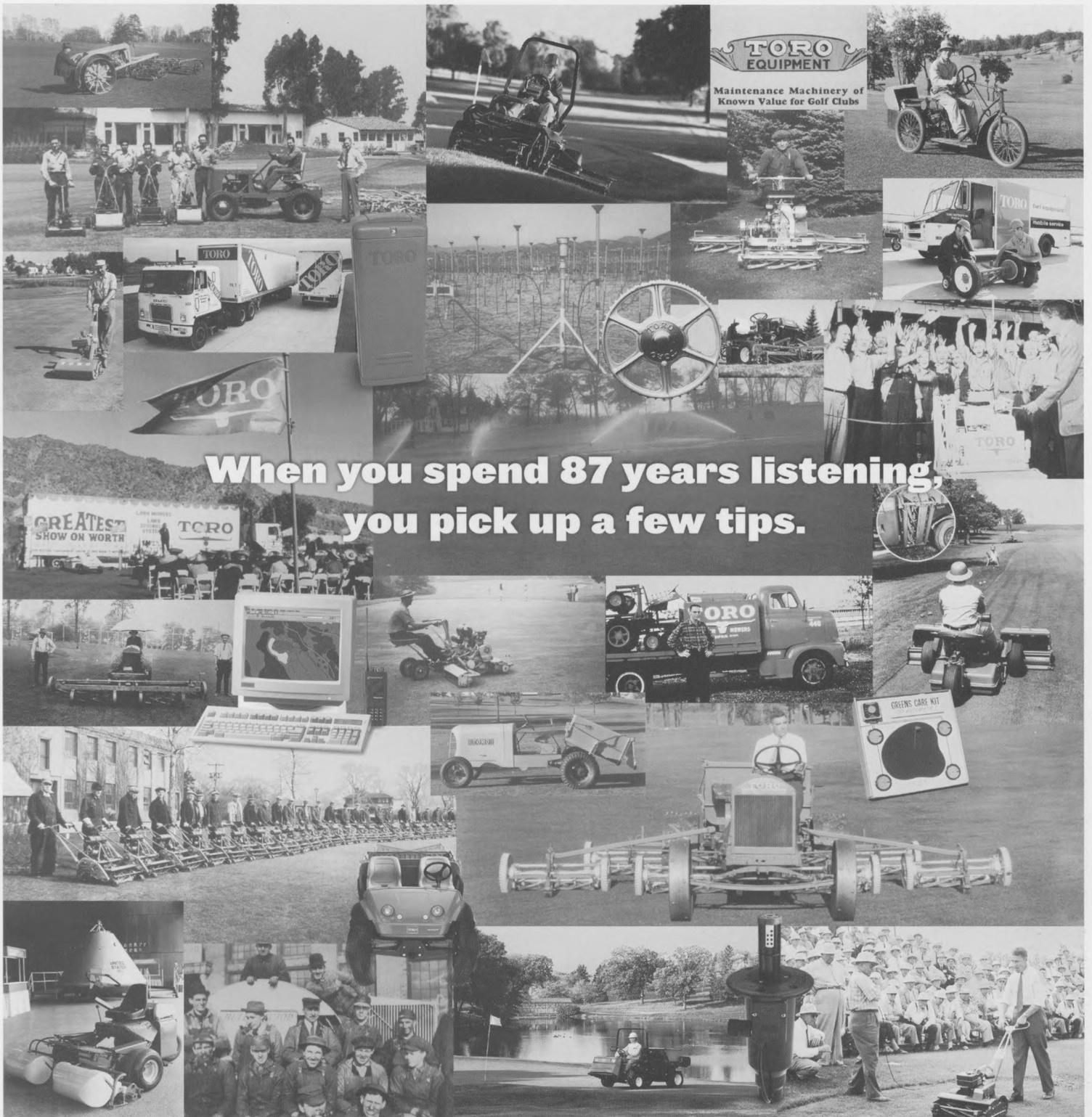
THESE GUYS ARE GOOD

By Shaun Barry
GCSANJ Commercial Representative
Aventis Environmental Science

The 2001 GCSAA Championship was held in San Antonio and many of our members did very well. Although the requirements for the championship flight are very demanding, we actually had two members in this part of the tournament. Neither Joe Owsik (158) nor Scottie Hines (162) placed in the top ten, but their efforts should be recognized.

In looking over the results, I am amazed that we had two members actually win their flights. This means that they will move up one flight next year, but I know that this won't bother either gentleman at all. Ian Kunsch won in the first

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GCSANJ news

Continued from page 10

flight, and Tom Tuttle captured his honors in the eighth flight. In both cases they did win low gross and low net, but the rules only allow them to take one place. They thus ended up being the low gross winner. This allows them to take home a trophy, a plate, a prize check and a flag from the course where they secured their victories. This is a National Championship and the competition is extremely intense. Not only are you playing after many months of inactivity, but many of your opponents have been playing throughout the winter. What a great achievement! In addition to Ian's and Tom's fine play we also had wonderful results from other members. Tom Ashfield (2nd gross), Doug Larson (2nd net) and Tom Grimac (6th net) also were in the first flight, and it looks like our association did make a statement. There is an advertisement about the PGA Tour members and it also refers to our members: "These guys are good."

Moving through the rest of the results, we see that there were others who played as well in the respective flights.

Forgetting about the flights, I will just tell you how they finished: Matt Lapinski (9th), John Carpinelli (9th), Trent Inman (3rd), Jim Cross (7th), John Wantz (9th), Ken Mathis (3rd), Steve Malikowski (7th), Pat O'Neill (3rd), Chip Kern (4th), Mark Kuhns (2nd), John O'Keefe (8th) and Charlie Lane (2nd).

I am leaving out lots of other members who played well but did not finish in the top ten of their flight, or at least from the information that I have received they did not. Look over the list for any omission of your accomplishments. Please let me know and I will add your name to the next *Greenside*. If I have mentioned your name but have gotten your results wrong, please blame the info that I have been sent from headquarters. We will let it stand unless there is something important that needs to be addressed. If you did not do so well, then the old adage of "Wait 'til next year" should be remembered and most likely next year it will be your turn.

I do know that there were team events, but I did not receive any information on this part of the tournament. If anyone has the results, please let me know and I will give it to Ken for the next issue. Hopefully better late than never is still acceptable. I

MARK THIS DATE ON YOUR CALENDAR

Sunday, July 15, 2001

On September 14, 1926, "under a big tree next to the barn," a group of greenkeepers met at the Crestmont C.C. to

Continued on page 14

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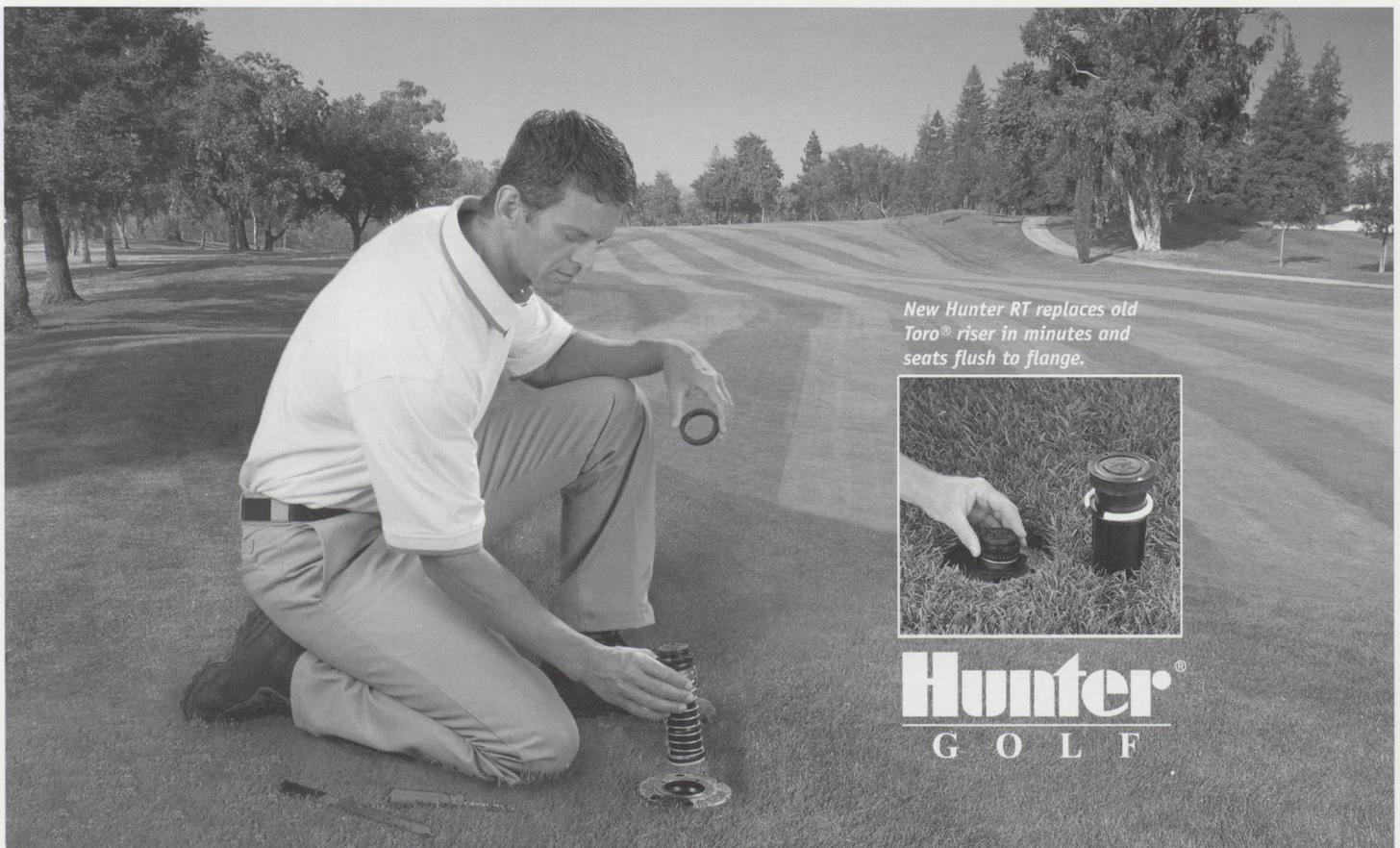
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Continued from page 12

form what would eventually become the Golf Course Superintendents Association of New Jersey. That tree is gone, but on July 15, 2001, it will be replaced.

The details are still being worked out, and if history is an indicator, the 75th Anniversary Committee will work hard to make sure that this family day is a success!

Plans for a family picnic are being finalized. Mark the calendar, keep your eyes on the mail for complete information and get ready to enjoy a mid summer day with family and friends! ¶

JUSTIN REMO BECOMES PART OF A GREAT GOLF COURSE FAMILY

On February 26, 2001, Fran and Brian Remo became the proud parents of a handsome baby boy. Justin Remo arrived weighing in at eight pounds, fourteen ounces. He and Fran are doing well, as are "Daddy" and "Grandpa."

All the members of GCSANJ, as well as *The Greenside* staff, wish Justin the best as he shapes the lives of Brian and Fran. ¶

EDUCATION IS ON THE AGENDA IN DISTRICT IV

By Shaun Barry

There has been a consistent and strong sentiment being expressed by most members of the GCSANJ when the conversation turns to the needs of our association. Whether it has been at the Board level or in the recent meetings survey or just during ordinary conversation over lunch, one subject always becomes the main topic. This association should be more than monthly meetings where education is part of the agenda. We need meetings that are just educational.

Taking this to heart, District IV started the ball rolling. Gregg Armbruster and Brian Minemier (with an assist from Tom Grimac) arranged for a meeting that appealed to a broad range of interests. The meeting was hosted at Gregg's course and more than 40 people attended.

Martin Davis was the first speaker. He is from OSHA and his presentation was very informative, and it did inspire lots of questions. He was followed by Nancy Sadlon from The Alliance for Environmental Concerns. Nancy continues to monitor all things big and small that will affect our

industry from a legislative standpoint. Her efforts keep us informed of pending change whether it is happening on a local level or all the way up to the halls of power in Trenton. Nancy and this association are very important to our future. Hopefully, we can add to the list of 35 superintendents who have joined The Alliance. We need to be united.

Steve Hart and John Grande represented Rutgers University. Steve gave a very detailed summary of product performance on post-emerge control for crabgrass. John held everybody's complete attention as he demonstrated various nozzles and spray equipment for spot-treatments. It was easy to see that he has spent lots of time learning what to do and how to do it with this way of applying product. I am sure this presentation will make a difference.

Jim Baird and Dave Oatis shared responsibilities during a thoughtful and insightful USGA summary on several topics concerning the problems of this job. It is impossible to attend any seminar where one of these fine speakers is on the program and not learn lots of valuable information. They also introduced a new member of their team. Kathy Antaya brings a great background to the region, and she will be very helpful as she covers the Northeast.

Congratulations to Brian and Gregg for making this happen. It was a full day, but since it was very well thought out the time passed quickly. We all left better informed than when we arrived in the morning. Hopefully this is just the beginning. ¶



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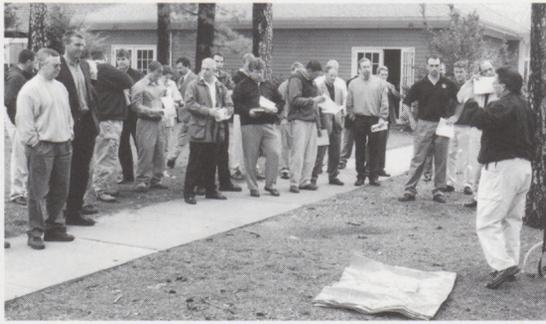
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Bill Murray was seen marching at the St. Patrick's Day Parade in Belmar.



John Grande from Rutgers U. conducts his demonstration at the District IV educational seminar.



Harry Harsin and Bill Murray represented the GCSANJ at the St. Patrick's Day Parade in Belmar. Harry watched and Bill marched.



Brian Minemier introduces Nancy Sadlon at the District IV educational seminar.

We get to say goodbye to Khlar Holthouse as he leaves Wildwood G. & C.C. for Niagara, New York. We wish you the best, Khlar.



Jeff Staeger takes over at Wildwood G. & C.C., and he will host our May meeting. Good luck, Jeff.

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75th Anniversary ... the mystery of the photo

By Doug Vogel, GCSANJ Historian
Superintendent, Packanack Lake G.C.

Have you had a chance to look at your 75th Anniversary Journal and study the picture of the first regular meeting of our association on page two? Here it is again. It certainly raises many questions if you look real hard.

- Why are there 17 men in attendance when we record that only 15 “dedicated turf men” were charter members?
- Why are there 20 grapefruits on the table?
- Why is only one of the group bold enough to wear a bow tie?

Unfortunately no names were written on the back of the original photo. The folder it came in shows that through the years attempts were made to identify “the boys,” but many question marks follow the names. In my attempt to identify the group, the photo was sent to a few of our senior mem-

bers who verified a few, but not enough to be accurate. A few theories of mine that I am researching are as follows:

1. The jolly looking gentleman at the end of the table we have positively identified as Riggs Miller. His position at the head of the table makes sense since he was our first president.
2. The two gents who flank Miller I believe to be the two extra attendees who were not charter members. In our files we have correspondence from April 29, 1927, that was sent to Captain David D. Rees of the Progress C.C. and K.W. Troensegaard of the Metropolis C.C. thanking them for their assistance in forming the association. They were officers of the Metropolitan Greenkeepers Association.
3. Old membership applications reveal that three greenkeepers joined in May and possibly had signed up for the original meeting, but, for reasons unknown, couldn't make it to Newark for the yummy grapefruit.
4. I will be seeking the guidance of Pete Pedrazzi, Sr. on the bow tie issue. ☞



GCSAA 75th Anniversary news

The Golf Course Superintendents Association of America was founded on September 13, 1926, making the organization one day older than the GCSANJ. Four brethren of New Jersey turf were charter members of the national, and it is highly unlikely that they made the meeting at the Sylvania C.C. in Toledo, Ohio, and made it home the next day in time to hear John Anderson hold forth in his determined Scottish manner about the need for a local association.

LEAVE A LEGACY

You can be a part of history by having your name, chapter, family or course engraved on a GCSAA ANNIVERSARY BRICK. These 4" x 8" bricks can be purchased for \$50 each and will be placed around the Old Tom Morris sculpture and gardens at the GCSAA headquarters in Lawrence, Kansas. Brick purchases are tax deductible and will be added to donor's cumulative giving totals with The Foundation. Order before June 1, 2001, and your brick will be placed in time for the 75th Anniversary dedication ceremony on September 13, 2001. Don't miss this opportunity to leave a legacy and be part of the GCSAA's future. Order

by calling the service center at 800-472-7878 or order on-line at www.gcsaa.org.

MARK YOUR CALENDAR

Plan to attend the GCSAA's 75th Anniversary activities to take place at the Association's headquarters in Lawrence, Kansas, on September 13-14, 2001. Celebration highlights include:

- **September 13, 2001** – Panel Discussions, Open House & Festival, Dedication Ceremony and Celebration Dinner
- **September 14, 2001** – Golf Outing, Optional Social Tour, Gala at the Historic Union Station.

GOLF BALL SHOWCASE

The GCSAA would like each member to donate one sleeve of three golf balls with their facility's logo on them. One set of golf balls will be featured in a monumental display at the 2002 Conference and Show in Orlando. The remaining balls will be auctioned on-line as a fundraiser for the GCSAA Foundation. See www.gcsaa.org for additional information. ↓



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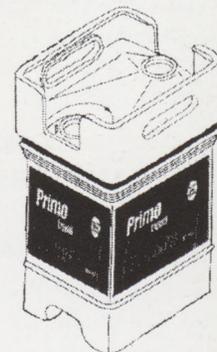
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GCSAA ANNUAL MEETING RESULTS FROM DALLAS

*By Jim McNally, GCSAA Delegate
Superintendent
The Rock Spring Club*

Following are the results of the GCSAA Annual Meeting:

1. Proposed changes to the bylaws and articles of incorporation allowing additional qualifications for Class A members (PDI) were passed.
2. A ballot outlining the specific additional requirements for Class A also passed. These requirements will take effect July 1, 2003.
3. Additional proposed changes to the bylaws eliminating outdated language from the chapters section and increasing the Benevolence Fund balance were also passed.
4. A proposed change that would have allowed absentee voting was defeated.

Board Elections

Tommy D. Witt, CGCS, President
Michael Wallace, CGCS, Vice President
Jon D. Maddern, CGCS, Secretary Treasurer

Robert J. Maibusch, CGCS, MG; Timothy T. O'Neill, CGCS; and Mark J. Woodard, CGCS, were elected to fill three open Director's positions.

Shortly after the Annual Meeting, President Witt appointed Sean Hoolehan, CGCS, to fill the term vacated to Maddern. R. Scott Whitehead, CGCS, will remain on the Board as immediate past president. Ken Mangum, CGCS, has one year remaining on a two-year Director term.

The GCSANJ was well represented with 183 votes in the Board election. [

GCSAA COMMENCES 75TH ANNIVERSARY CELEBRATION IN 2001

What began (September 13, 1926) as a gathering of 60 golf course superintendents at Sylvania Country Club in Toledo, Ohio, shortly before the Great Depression, has 75 years later evolved into an organization that is widely-credited for helping to advance the game of golf.

That organization, the Golf Course Superintendents

Association of America (GCSAA), began celebrating its diamond anniversary at the 72nd International Golf Course Conference and Show in Dallas, February 11-17. Numerous activities and projects scheduled over the next 12 months will highlight the contributions and achievements of the association and its members, culminating with GCSAA's 73rd International Golf Course Conference and Show, February 3-9, 2002, in Orlando.

GCSAA is the leading professional association for the men and women who manage and maintain golf facilities in the United States and worldwide. From its headquarters in Lawrence, Kansas, the association provides education, information and representation to more than 21,000 individual members in more than 65 countries.

"The 75th anniversary, while certainly having special meaning to GCSAA members, is truly a celebration for all of golf," GCSAA Past President R. Scott Woodhead, CGCS, said. "Our goal will be to highlight and honor the achievements of the association and the golf course superintendent profession which have made the game of golf better."

Three events will focus the next year's activities, with an eye on the past, the present and the future of the association and the profession. The show in Dallas examined the events of yesterday, including the research and product development that advanced golf course conditioning. Among the features were a historical display of machinery and equipment from exhibitors. On September 13, 2001, the association will hold a "birthday party" for its members at GCSAA headquarters in conjunction with its annual Chapter Delegates meeting. The 2002 conference and show will look at the future of the profession, association, industry and game.

Woven around these functions will be a variety of activities including a membership drive that will start a campaign to increase GCSAA membership to 30,000 by 2005; an initiative to get members connected on the Internet; a headquarters lobby and grounds renovation, including a historical display area and life-sized bronzed statue of Old Tom Morris; and a legislative conference in Washington, D.C.

Golf has benefited from advances in technology, but those developments have not been limited to golf balls, shafts and clubs, according to PGA Tour legend Byron Nelson. "I think the job the superintendents have done is the biggest improvement in golf today. The demands have caused it, yes, but also the education that the superintendents have now in agronomy and such (is critical). What I like is that golf course management has become so good universally."

GCSAA's mission is to serve its members, advance their

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profession and enhance the enjoyment, growth and vitality of the game of golf. Visit GCSAA at www.gcsaa.org.

WHAT IS THE LIMITED BUDGET OUTREACH PROGRAM?

by Bruce Cadenelli, GCSANJ Limited Budget Liaison, Superintendent, Metedeconk National G.C.

The Limited Budget Outreach Program is a GCSAA-sponsored program to identify the clubs that, because of possible budget limitations, are presently not members of the national association or local chapters. The program is administered by local superintendent chapters. This is *NOT*

a recruitment or membership drive by GCSAA or the local chapters. It is:

- An effort to foster communication and relationships between clubs and superintendents.
- An effort to help grow the game of golf. Limited budget facilities are, often times, places where people are first introduced to the game of golf.
- An effort to make all superintendents and their clubs feel more a part of the family of golf.
- An effort to show that budget size does not preclude any facility from sharing information and ideas.
- An effort to offer assistance to limited budget facilities if called on to do so. The program is a two-way street. It's anticipated that learning will occur on both sides of the equation. ¶

In memory

By Shaun Barry

About ten years ago Terry Stanley left New Jersey for a slightly warmer climate in Naples, Florida. Terry had spent his time here in the Garden State as the superintendent at Knob Hill G.C., and now he was going to be the superintendent at Foxfire G.C. Terry felt no concern about leaving his cool season turf for the 12 month rigors of warm season turf. He had gone to college in Florida, and he knew that he loved the area and if he worked hard everything would work out. He did and the job went well. He was in charge of the course, and then he added the title of golf course builder as he headed up the team that completed the construction of the third nine at Foxfire G.C. That came in under budget and ahead of schedule, while he kept the original course in tournament condition.

Always looking for challenges, Terry moved a couple of times and finally got the job of his dreams. He took over at Wilderness C.C., but unfortunately he became ill and his efforts centered on fighting for his life. After six weeks of struggling Terry became too tired to fight, and he quietly passed away on March 8, 2001.

Many of you never knew Terry, but your life would have been better for the experience. You never saw him without a smile or a funny story about his buddy, Mr. Pease. He was a man who played golf on the same college team with Fuzzy Zoeller and quite often took money from this gentleman. He



Terry Stanley

never had a handicap higher than five, but he would play with anyone (a.k.a. Dave Pease). He loved his job, but most of all he loved his family. Linda, Shawn and Sherri are struggling right now but they will get through it. That is how Terry would have wanted it. Shawn has decided to follow in his dad's footsteps and is currently finishing his studies at Lake City Community College. He interned last summer at Metedeconk National and will someday be a proud superintendent like Terry.

Terry would have been embarrassed with this note, but because he did know many people here, I just wanted you to know. He is gone but he will not be forgotten. ¶

Vendor Spotlight

Take a Closer Look

Treatment Services, Inc. & Sadlon Environmental

Meet an old face and a new face in the industry that have teamed together to address the water issues of the golf industry.

When you think of water and wastewater systems you should be thinking of **Treatment Services, Inc.** TSI, while relatively new to the golf course industry, offers valuable qualities and background. General contractor/co-owner Kevin Lydon and electrician/co owner Sal DeMaio have worked together since the late 80s and eventually expanded and incorporated Treatment Services, Inc. Their experience has been primarily with municipalities and private developers until recent years where their expansion in providing services to the golf industry was a natural fit. Kevin Lydon, golf enthusiast, spearheaded the efforts to offer services to golf courses, having a general preference to be in the golf course environment and a strong belief that he could do a better job than what he had seen from other general contractors' work on golf courses.



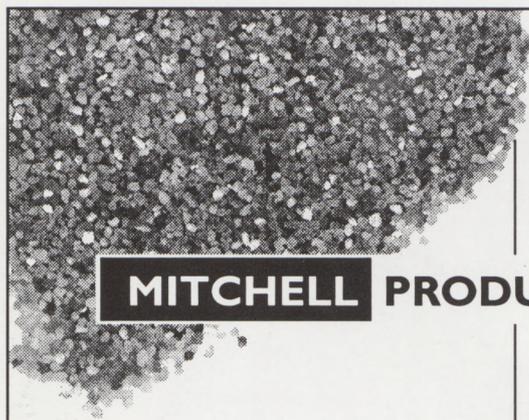
TSI is requested for many projects for their experience, track record and timely completion record. TSI may be a new face to the industry but they are well on their way to demonstrating the value they provide in golf course construction projects. Just ask Tom Breiner or Mickey Stachowski of Fiddlers Elbow, who have recently experienced a 6-month (off-season) construction process of a 40,000 GPD sewage treatment plant, that included 3,200 linear feet of force main throughout portions of the golf course and the abandonment and demolition of the existing sewage treatment plant.

TSI provides specialized services for the golf industry including:

- Sewage: Treatment package plants, pump stations, force mains, remote restrooms
- Water: Booster pumps, pump houses
- Mechanical: Piping: Interior/exterior
- Civil: Site work, ponds, drainage, culverts, bridges, roads, clearing
- Electrical: Control systems
- Irrigation: Skid pumps, control buildings

A name known in the industry, Sadlon, should ring a bell. Numerous articles published by Sadlon have appeared on the pages of *The Greenside*. Or maybe you know the AEC executive director – N. Sadlon or the AWC executive secretary -Nancy Sadlon. But have you met John Sadlon or Nancy Sadlon – the principals of **Sadlon Environmental (SE)**. A look at their work in pond enhancement at Hamilton Farms, a review of the Pond Restoration Master Plan prepared for Echo Lake Country Club or a reference to one of the many IPM/Water Monitoring Programs prepared for new courses provides a glimpse of the specialized professional

Continued on page 21



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Vendor Spotlight

Continued from page 20

services offered by Sadlon Environmental. This environmental consulting firm was formed in 1990 by John Sadlon in order to provide needed environmental services to a major builder in the state. The firm, in the early years, focused primarily on wetland delineation work, Army Corp of Engineers permitting and DEP permitting, and has since expanded. During these early years, Nancy Sadlon was busy with the responsibilities of her USGA position as the environmental specialist within the Green Section.

In 1995 Ms. Sadlon left the USGA to focus on family and to join Sadlon Environmental as the principle of the Golf Division. Nancy applied her background in landscape architecture, experience as an environmental consultant and her years of focus on golf's environmental issues to her position in the firm. John brings his professional credentials (New Jersey Certified Landscape Architect and New Jersey Professional Planner) and strong design and construction skills to SE. The firm actively seeks opportunities in the industry where they can provide their professional exper-

tise in evaluating site conditions and provide recommendations important in preserving an area's natural resources and enhancing the functional or aesthetic conditions of the site.

The services provided by SE include:

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- Permitting: DEP permitting for wetlands, dredging, water allocation, soil erosion control
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Continued on page 21

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1st and goal

by Brian M. Remo
Golf Course Superintendent
Richmond County C.C.

Well, here we are again, guys and gals, closely approaching the start of yet another glorious golf season in the armpit of the U.S. You know, even though I work out here in New York City, I am a New Jersey resident, and I still take offense to that label—"the armpit." I guess geographically we do reside in the section of the United States whose positioning would denote that portion of the body, but if New Jersey is the armpit, what would that make Staten Island . . . the hair of the armpit? Let's not go there right now, but I do wish to expand upon my main gripe with this topic, which is misconception.

Funny, each year I see that report that comes out in *Superintendent Weekly* or a similar periodical that depicts how much the average super makes in accordance to which part of the country is in question. I'm sure you are all familiar with this report: the whole country is blocked off in pretty colors to denote which states correlate to the average amounts listed at the bottom of the page. But what I find funny is that New Jersey is among the highest paid in the country . . . not

bad income for a bunch of guys who mow the hairs of an armpit, eh? Maybe they should start calling us the back pocket of the U.S.

Well, here we are again, guys and gals, closely approaching the start of yet another glorious golf season in the armpit of the U.S.

Funny, if you look at the history of sports in the last decade, we in the metropolitan area have four world series teams with the Yanks (not to mention a 2000 National League pennant with the Mets). We have the Giants, Jets, defending NHL champs NJ Devils . . . okay, so the Nets haven't quite hit their peak yet, but they are certainly no slouches. We have some premier teams up here in the armpit . . . maybe

Continued on page 23

Vendor Spotlight

Continued from page 21

- Certification: ACSP certification assistance
- Testimony: Expert testimony at planning boards on pesticides and other environmental issues

Joining Together Makes Good Sense

Water issues, both water quality and water quantity, have become the prominent issues of 2001 and they are expected to only increase in the future. The demand on our water resources is huge, and state regulators of our water are clearly stressing the need for use of treated wastewater for golf course irrigation and water use reduction. Treatments Services, Inc and Sadlon Environmental have joined together to combine design professionals with experienced contractors to offer "design to construction" solutions. As a team, they see their role in the future as being ready to address water issues. As a team, they are better equipped to improve irrigation ponds, drainage, water recapture systems, and course adaptation for use of treated wastewater, etc. Let us help you prepare for the future environmental challenge - the management of potable and treated wastewater. 



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1st and goal

Continued from page 22

we should be the sports capital of the U.S.

In regard to our own industry, look at the courses we are home to: Pine Valley, Baltusrol, Metedeconk National, Ridgewood, Fiddler's Elbow . . . I venture to say that we have better courses per square mile than anyplace I can think of. (Myrtle Beach, of course, is a freak of nature.) Rutgers University is among the leaders in agronomy and turf science programs in the country as well. Not bad for the arm-pit.

Misconception . . . it is essentially a destroyer of reality. It distorts what really is into what is easier to understand and effectively more pleasing for the individual. Each year our association sets out their list of goals to accomplish for the upcoming year, and I must say that our past presidents seem to tackle them with great success. Yet every year there seems to be an ongoing struggle to better one arena of the industry that surrounds us . . . public relations in regard to improving the knowledge of the everyday man or woman as to what it is that we do. Sometimes I consider this a blessing (keep the hidden gem of this job to ourselves). But I do believe that this is primarily caused by the misconception of

our positions. The distortion of their reality. The destruction of the truth.

When we tell people that we're a super, what do we often tell them? Our brethren has collectively embraced the hatred for the title of greenskeeper, and we usually say something like, "I run a golf course." It's just plain easier, isn't it? Society then immediately assumes one of three things: 1) That we are awesome at golf, play it all summer long, occasionally mow something, do nothing all winter long and are just dying to let this person's first time playing the game be on a Saturday morning with three other hacks of their choosing; 2) That we are some kind of Bill Murray-type of outdoor commando who hunts gopher, showers once a week if there is enough time between juggling our frequent trips to the track and our amazing affinity for developing various grades of moonshine and cannabis sativa; or . . . 3) We're landscapers.

Well, of course, they all know Bill Murray in "Caddyshack." He was funny! He lived on the course in what looked to be the spare mower shed. His idea of gourmet dinner was Domino's, and he used a red Maxx for a

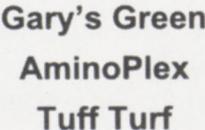
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Alliance for Water Conservation update

The Alliance for Water Conservation (AWC) continues to work with the NJDEP –Division of Water Supply to secure reasonable water regulations and equitable treatment in drought situations. We have had three productive meetings with the Division of Water Supply. Our first meeting in April 2000 was a meeting of introductions and exchanges on drought management issues called by the NJDEP. AWC strongly expressed our collective concerns for the problems of the 1999 drought management regulations and our anger for the financial burden our industry had to bear as a result of the wording of the Administrative orders restricting outdoor water use. NJDEP communicated that water demand is ever-increasing in the state and our available water resources are not keeping pace. The use of treated wastewater for golf courses was strongly encouraged.

At our second meeting, further discussion of our problems with the 1999 drought restrictions led to the opportunity/request from the state for the AWC to present our “ideal” Administrative Order (AO). This document guides how

water is allowed to be used in a drought emergency! The GCSANJ Legislative Committee (which included Glenn

NJDEP communicated that water demand is ever-increasing in the state and our available water resources are not keeping pace.

Miller, Mickey Stachowski, Angelo Petraglia, Brian Minemier, Chris Holenstein and Bruce Peebles) drafted a proposal, which requests changes to the mandatory restrictions for golf courses, includes recommendations for the use of Rutgers Extension Best Management Practices for golf courses (a publication to be created by Dr. James Murphy)

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1st and goal

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vacuum. Did anyone see the movie about the cool, attractive golf course superintendent who lived in Upper Saddle River, N.J.? You know the flick I'm talking about . . . he had this supermodel wife played by Pamela Lee, three kids and drove a BMW. The movie started out with him finishing off the U.S. Open preparation and ended with him saving the world from a giant meteor that was catapulting toward earth by mixing Penol Mercury and Daconil into a scud missile that intercepted the large asteroid just seconds before it entered the earth's atmosphere? You remember that one? Of course not, it never happened. Okay, it's a stretch, but no more than Oliver Stone's depiction of the sweet life of a Wall Street tycoon in the 1980s film with Michael Douglas.

You ask what it's like to be a surgeon, or a romantic columnist in New York City, or a police officer, or even a paleontologist, nine out of 10 people are going to start regurgitating scenes from “ER,” “Sex in the City,” “NYPD Blue” and “Friends.” What do we have? We have “Caddyshack.” We don't even have the sequel! Dan Akroyd was a subcontractor hired by the club president! What a bunch of crap! You want to see dead gophers? Ask a real super how to get the job done. We'd flood the place with so much DDT you could fry an egg on the putting green. But that would never happen. The public has no interest, they

have no idea, they only have misconceptions. They have their Hollywood ideals and their heroes on the silver screen, and they have their misconceptions.

So what's the point of this, yet another rant from hell by Mr. Remo? Nothing really. I just like to go off the handle and freak out on the downfalls of society in general. But I guess if there were to be a point to all of this it would be that we are still just mow jockeys in the public eye because it just might be too difficult for people to understand what it is we do without a four-hour seminar on the proper maintenance of a golf facility. They don't understand because they just don't need to. Eight hundred thousand dollars worth of finely tuned chemical, mechanical and personnel applications have absolutely nothing to offer the average man. Understanding that July and August have a downside to counterbalance their Frankie and Annette-type of summer fun would just deflate their “summer is the coolest time of the year” theory. We don't exactly get the luxury of attending the MTV Daytona Spring Break Rave Party this year. And the next time I hear “look at the pretty leaves that autumn has to offer,” I'm going to offer them a pile of foliage carcasses to decorate their entire block. I guess we just look at things a little differently as supers . . . I guess we just see things for what they really are, without distortion of reality, without misconceptions. [

Alliance for Water Conservation update

Continued from page 24

as the guidelines for achieving water use reduction, offers a set percent water use reduction goal, expands watering times at night, increases the amount of minutes allowed for syringing, removes date restriction regarding over-seeding and syringing and increases the cumulative water usage percent maximum to 70%.

The following proposal was submitted to NJDEP:

ADMINISTRATIVE ORDER NO. XXX

Proposal of the AWC Relative to Water Use Restrictions on Golf Courses in Phase 1

(Phase 1 of a drought emergency restricts outdoor water uses only.

Phase 2 rations water to public and restricts industry.)

AWC Proposes:

The use of water for outdoor recreational purposes, except that:

J. Golf courses, which possess a valid Water Allocation Permit or Water Use Registration from the department, may use water in the following manner provided they follow

Rutgers BMP's for golf courses and use is reduced by 30%:

1. For greens and tees, with the minimum amount necessary for survival, by sprinkler or other mechanical means between 9:00 p.m. and 6:00 a.m.. Syringing is permitted for no more than 15 minutes per green between 10 a.m. and 5:00 p.m.
2. As part of a necessary over-seeding or re-sodding operation newly seeded or sodded fairways may be watered between 9:00 a.m. and 4:00 p.m., provided that no area may be watered for more than 20 minutes on any given day.
3. Rough or other grass areas not addressed in a. and b. above may not be watered by any means.
4. Under no circumstances shall cumulative water usage exceed 70% of average monthly demand, as based on permit or registration figures submitted to the department.

Our third meeting of October 2000 allowed us an opportunity to present the above and to receive NJDEP's draft

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Alliance for Water Conservation update

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changes to the Administrative Orders. Of significance, state representatives at this meeting were receptive to the concept of referencing BMP's Water Conservation Guidelines, created by Rutgers Cooperative Extension, within the Administrative Order. This reference would take the place of some of the unrealistic and/or technically unsound recommendations found in the 1999 Administrative orders.

The most recent meeting of the AWC/NJDEP occurred March 28, 2001. At this meeting we brought to the state our review and recommendations on their draft Administrative Orders. This afforded the AWC to ask a few important questions:

- How can we amend the Emergency Drought regulations so that all businesses share the burden of water restrictions?
- How can we change the perception that outdoor water use (golf course irrigation, nursery irrigation, and ball field irrigation) is an unnecessary water use? What is needed to illustrate that outdoor water use is critical to the continued survival of many New Jersey businesses?
- Can we revise Phase 1 of water restrictions so that all (public, all businesses and industry) do their part in the conservation of water resources?

What's Next?

The AWC will meet again with NJDEP-Division of Water Supply in May (tentative date set for May 30, 2001). We hope to receive additional response from the state on our recommendations and concerns. We hope to make more progress in finalizing the details of the revised Administrative Orders.

The Bigger Picture

The AWC has been diligent to stay on top of this issue while the reservoirs are full and the pressure is off. Our efforts with NJDEP-Division of Water Supply are encouraging. Water Supply Administrator Dr. Shing-fu Hsueh and his staff have been receptive to our concerns and have shown a willingness to seriously consider our recommendations and address our concerns. Addressing the regulatory component of a drought is but one aspect of the overall approach anticipated to be successful in gaining equitable treatment in future droughts. There is the ever-present political side to this issue. AWC is exploring how best to address the politics of the issue. As a first consideration, the industry will need to find a way to demonstrate the contribution to New Jersey economic base and the political clout they possess.

Those that shall reap the benefits of the AWC's efforts

should thank the following AWC supporters whose donation has made it possible for the AWC to exist. Please consider donating to this valuable industry committee -working to protect your water use rights.

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- Jade Run Sod Farm
- New Jersey Landscape Contractors Association
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Thunderstorm and lightning safety: How you can stay prepared ... and safe

From a Preparedness Guide by the U.S. Dept. of Commerce, NOAA and the National Weather Service, January 1994

Be prepared before the storm:

- Know the county in which you live and the names of nearby major cities. Severe weather warnings are issued on a county basis.
- Check the weather forecast before leaving for extended periods outdoors.
- Watch for signs of approaching storms.
- If a storm is approaching, keep a NOAA Weather Radio or AM/FM radio with you.
- Postpone outdoor activities if thunderstorms are imminent. This is your best way to avoid being caught in a dangerous situation.
- Check on those having trouble taking shelter if severe weather threatens.

What to do when thunderstorms approach:

- Remember, if you can hear thunder, you are close enough to the storm to be struck by lightning. Go to safe shelter immediately.
 - Move to a sturdy building or car. Do not take shelter in small sheds, under isolated trees or in convertible automobiles.
 - If lightning is occurring and a sturdy shelter is not available, get inside a hard top automobile and keep the windows up.
 - Get out of boats and away from water.
 - Telephone lines and metal pipe can conduct electricity. Unplug appliances not necessary for obtaining weather information. Avoid using the telephone or any electrical appliance. Use phones only in an emergency.
 - Do not take a bath or shower.
 - Turn off air conditioners. Power surges from lightning can overload the compressors.
 - Get to higher ground if flash flooding or flooding is possible. Once flooding begins, abandon cars and climb to higher ground. Do not attempt to drive to safety.
- Note: Most flash flood deaths occur in automobiles.*

If caught outdoors and no shelter is nearby:

- Find a low spot away from trees, fences and poles. Make sure the place you pick is not subject to flooding.
- If you are in the woods, take shelter under the shorter trees.
- If you feel your skin tingle or your hair stand on end, squat low to the ground on the balls of your feet. Place your hands on your knees with your head between them.

Make yourself the smallest target possible, and minimize your contact with the ground.

- If you are boating or swimming, get to land and find shelter immediately.

Warnings and watches—what to listen for:

Severe Thunderstorm Watch—tells you when and where severe thunderstorms are more likely to occur. Watch the sky and stay tuned to know when warnings are issued. Watches are intended to heighten public awareness and should not be confused with warnings.

Severe Thunderstorm Warning—issued when severe weather has been reported by spotters or indicated by radar. Warnings indicate imminent danger to life and property to those in the path of the storm.

Myths and facts about lightning:

Myth If it is not raining, then there is no danger from lightning.

Fact Lightning often strikes outside of heavy rain and may occur as far as 10 miles away from any rainfall.

Myth The rubber soles of shoes or rubber tires on a car will protect you from being struck by lightning.

Fact Rubber soled shoes and rubber tires provide NO protection from lightning. However the steel frame of a hard-topped vehicle provides increased protection if you are not touching the metal. Although you

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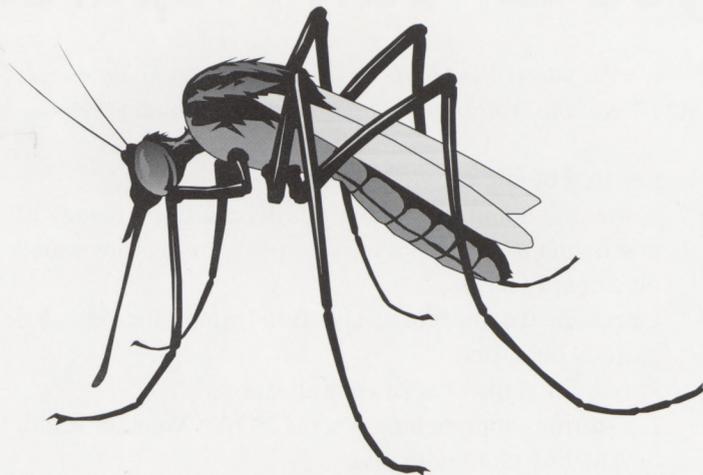
West Nile encephalitis questions and answers

Q. What is West Nile encephalitis?

A. West Nile encephalitis is a mosquito-borne viral disease, which can cause an inflammation of the brain. The West Nile virus (WNV) is commonly found in Africa, West Asia, the Middle East and Europe. For the first time in North America, WNV was confirmed to be present in the New York metropolitan area during the summer and fall of 1999.

Q. How do people get West Nile encephalitis and what are the symptoms?

A. WNV is transmitted to people by the bite of a mosquito, primarily the northern house mosquito, *Culex pipiens*. Most infections are asymptomatic or mild. Symptoms may include: fever, headache and body aches, often with skin rash and swollen lymph glands. In rare cases, more severe infection may result, with symptoms such as high fever, neck stiffness, stupor, disorientation, coma, tremors, convulsions, muscle weakness, paralysis and, rarely, death.



Q. How is West Nile encephalitis treated?

A. There is no specific therapy. Most individuals recover spontaneously without hospitalization. However, those

Continued on page 29

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West Nile encephalitis

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developing more serious symptoms require hospitalization for supportive therapy.

Q. Is there a vaccine against West Nile encephalitis?

A. No.

Q. What is the incubation period in humans?

A. Usually 5 to 15 days.

Q. What proportion of people die when infected with WNV?

A. Since the majority of infected persons are asymptomatic, the overall fatality rate is much less than 1%. However, for hospitalized patients with encephalitis, case

fatality rates may range from 3% to 15%, and are highest in the elderly.

Q. What is the transmission cycle for WNV?

A. Mosquitoes become infected after feeding on infected birds with high levels of virus in the blood. After a period of 10 days to two weeks, the mosquitoes can then transmit the virus to humans or other birds and animals when taking a second blood meal. Most birds, which serve as the “intermediate host” for the virus, show no signs of illness from the disease. The disease can only be transmitted by mosquito bite, and not from birds to people or other animals.

Q. Does New Jersey have a plan to detect WNV and prevent more human cases?

A. A multi-agency plan for surveillance and mosquito control has been developed to include the following:

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Thunderstorm and lightning safety

Continued from page 27

may be injured if lightning strikes your car, you are much safer inside a vehicle than outside.

Myth People struck by lightning carry an electrical charge and should not be touched.

Fact Lightning-strike victims carry no electrical charge and should be attended to immediately. Contact your local American Red Cross chapter for information on CPR and first aid classes.

Myth “Heat lightning” occurs after very hot summer days and poses no threat.

Fact What is referred to as “heat lightning” is actually lightning from a thunderstorm too far away for thunder to be heard. However, the storm may be moving in your direction!

Postpone outdoor activities if thunderstorms are imminent. This is your best way to avoid being caught in a dangerous situation.

Remember, if you can hear thunder, you are close enough to the storm to be struck by lightning.

Go to a safe shelter immediately! ⚡



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West Nile encephalitis

Continued from page 29

- Mosquito, bird, horse and human surveillance to detect the presence and location of WNV activity.
- Comprehensive mosquito surveillance and control in all 21 counties.
- A coordinated system of reporting and laboratory testing of samples.
- A communications and public education plan.

Q. What can I do to reduce my risk of becoming infected with WNV?

- A.
- Eliminate stagnant water around the home in discarded tires, blocked gutters, unclean birdbaths, poorly maintained pools and any type of receptacle with decaying organic matter.
 - Limit outdoor activities at dawn, dusk and the early evening, when possible.
 - Wear long-sleeved shirts and long pants whenever you are outdoors, weather permitting.
 - Make sure screen doors and windows are in good condition.

- When going outside, use an insect repellent containing DEET on the skin or clothing, or a repellent containing permethrin on clothing. Insect repellents should not be applied to children less than three years old. Always use a repellent according to the directions on the product label.

Q. Where can I get more information about WNV?

- A.
- The following web sites are a source of additional information: New Jersey Department of Health and Senior Services (www.state.nj.us/health/), Centers for Disease Control and Prevention (<http://www.cdc.gov/>), and New Jersey Mosquito Homepage (<http://www.njmosquito.org/>). Local mosquito surveillance and control information is also available from your county mosquito control agency, and specific questions regarding WNV may be addressed to your local health department.

All information obtained from State of New Jersey, Department of Health & Senior Services. ¶

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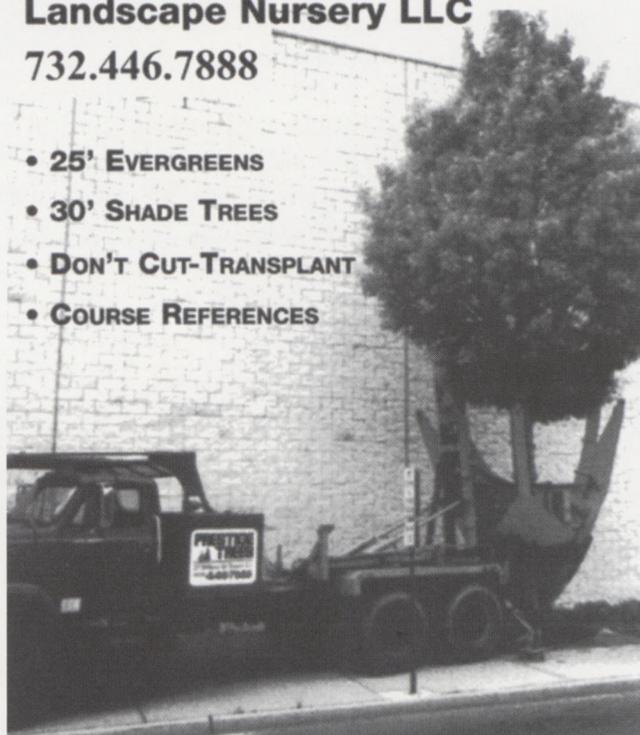


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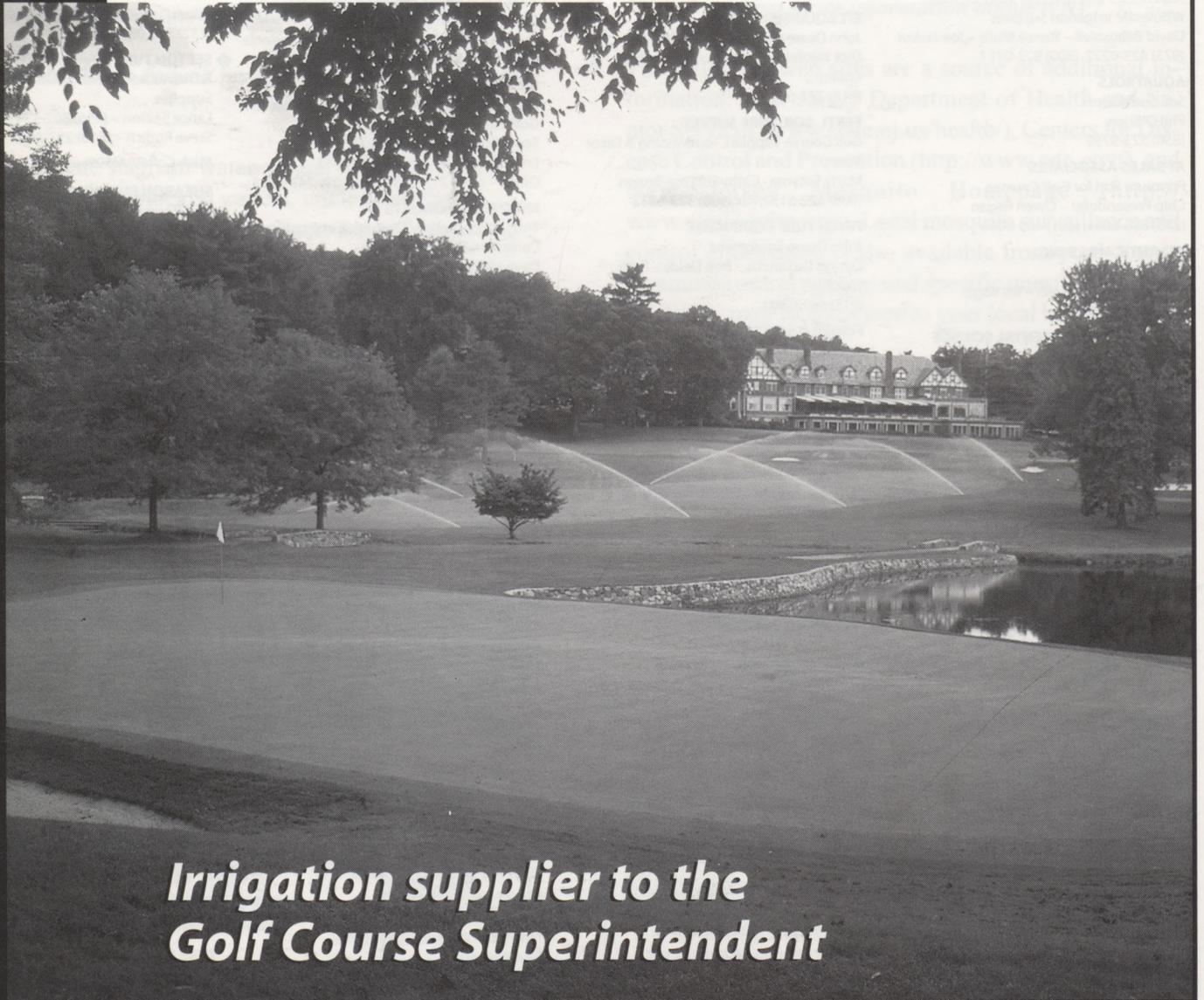
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