



# THE Greenerside

Official Publication of the Golf Course Superintendents Association of New Jersey

## Are you ready to save a life?

By Bill Mallon, M.D.  
and Edward A. Palank, M.D.  
Golf Digest Professional Advisors

In October 1999, *Golf Digest*, the American Heart Association and allies from throughout the world of golf introduced Links for Life, a nationwide initiative to help save lives on the golf course. Since then, hundreds of golf facilities have purchased automated external defibrillators (AEDs), the high-tech, yet easy-to-use devices that are the only effective way to help save the life of someone in cardiac arrest—the No. 1 cause of death on the golf course.

But an AED is likely to be of little use without an effective “First Responder” plan that gets the right people to the right place in the right amount of time. Here are the key issues you’ll need to resolve as you implement a safety plan for your course and the people on it.

### How Much Time Do We Have?

The goal of any emergency strategy should be to respond to a victim anywhere on the property within three to six minutes. The chances of successfully resuscitating a cardiac-arrest victim decrease rapidly after that time, and approach zero probability after 10 minutes.

### Where Do We Keep the AED?

Within easy reach of an employee who has received adult CPR/AED training and who is in contact with golfers or employees on the course via phone or two-way radio. At most courses this will be the golf shop.

To determine whether your golf course facility would be better served by having more than one AED on site, first determine how long it would take a person riding a cart or jogging briskly (about 10 to 15 miles per hour) to get from the clubhouse to any place on the property. If it’s longer than the three-to-six minute window, place additional AEDs to create overlapping emergency-response coverage.

### How will we know when an emergency occurs?

Rapid communication between golfers on the course and First Responders is vital. To speed communication from

outlying areas, install emergency call boxes or another form of communication. Most emergency phones can also be used to alert the local emergency medical service.

### How do we get the AED to the victim?

The First Responder or team of responders should have ready access to a golf cart or other vehicle capable of reaching any point on the golf course. The quickest and safest route to any place on the property should be clearly marked, either on the map kept on the cart or by on-course signage. (The local EMS unit should also have this map.)

### Who Gets AED Training—and How?

The American Heart Association offers a four-hour “Heartsaver AED” training class in adult CPR/AED first aid techniques (phone 877-AHA-4CPR). Among employees who should be offered annual training: the head pro, assistant pros, course superintendent and crew, ranger or starter, and

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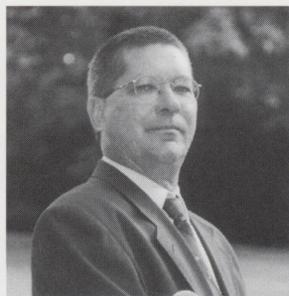
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# Editorial



## Changing Times

The fall is in full swing, the leaves are changing and falling off the trees. In Paramus, the maple trees had some beautiful deep red colors this year. I enjoy all types of weather and all the seasons, so I cannot say that this is my favorite time of year (although it should be), but this is a great time of the year. I made it through another season and the grass is still green. It is great working weather, although a little cold in the morning.

My nickname in the pro shop this time of year is "Frosty," that is one of the downfalls of the season. Golfers think I enjoy frost delays, some say I get a twisted smile on my face when I call a delay. Actually, I think that most of you would agree that frost delays are as much of a pain for the maintenance staff as for the golfers. The disease pressure is low, the crew can take care of the leaves, and I can certainly do without having to make the call to stop everything, rearrange the maintenance schedule and have the golfers think that the twisted smile is because I enjoy this.

The clocks are about to fall back and it will be light out when I go to work in the morning. The Yankees are going to the World Series again and the Giants, well, there is still time. There is a great seminar coming up, put together by Directors Roger Stewart and Paul Dotti. Next will be EXPO and the GCSAA conference. Life should be good.

Most people that know me think that I am kind of a mellow guy (except maybe some of my crew). I have noticed myself getting more impatient, more crabby, less likely to put up with the little things that used to roll off my back, so during the summer, I decided that I was going to go back to the "Kinder, gentler Ken," and it worked, I started to feel better about most everything. Life has been good to me and I appreciate everything I have. So what is my point to all this? I'll explain.

Although I am more of the "Kinder, gentler Ken," I know that I have also never been as upset and troubled as I have been since September 11<sup>th</sup>. For anyone to come into our country and do what they did is something that I cannot understand. This is the best place in the world to live and no one



*Continued on page 4*

# President's Message

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

It's hard to believe that a year has gone by since I took over as president of the GCSANJ. In that time, however, the Executive Board, the district directors, our national liaison, the commercial representatives and all the various committees have managed to accomplish quite a lot. I thought I'd highlight some of this year's accomplishments.

I started the year with a meeting with the Executive Board and some of the recent past presidents in order to try to keep some consistency between our past and our future. The meeting lasted several hours and touched on many ideas for the direction for the future. I think it was a good idea to keep our past leaders involved in our future.

One exciting thing that happened this year was the 75<sup>th</sup> Anniversary Gala. The committee that worked on that really outdid themselves. It was a fantastic event. The same committee also organized a ceremonial tree planting at Crestmont Country Club, which symbolized the first GCSANJ meeting 75 years ago.

Another big triumph this year for the GCSANJ is the new web site, GCSANJ.org. It hasn't been too active this fall, but I think the potential for the future is enormous. Surveys taken by Bruce Peebles revealed that our membership felt we needed more education. So a new educational seminar was added to the November schedule. Also this year we hired a lobbyist to help with rewriting of legislation regarding the water restrictions in times of a drought.

The directors from District 4, Gregg Armbruster and Brian Minemier, have decided to mix things up at the GCSANJ booth at Expo. Instead of the putting green, this year we will have a closest to the pin contest in a simulator.





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They felt that this would be a way to generate new interest in the trade show and perhaps keep people on the floor longer,

***Another big triumph this year for the GCSANJ is the new web site, GCSANJ.org. It hasn't been too active this fall, but I think the potential for the future is enormous.***

which in turn would help to support the vendors. And, finally, we have changed our date and location for the annual meeting. A large percentage of our membership is already planning to be attending the New Jersey Turfgrass Expo, so we thought we would try to move the event there. It is scheduled for Tuesday, December 11 at 11:30 a.m. in the Topaz room. I hope I see you there. ☺

## Calendar

- Nov. 29**      **Alliance for Environmental Concerns Annual Meeting and Seminar**, Fiddlers Elbow Country Club. Contact Nancy Sadlon at 732-563-9252.
  
- Dec. 10**      **GCSAA/GCSANJ Seminar**, Managing a Multicultural Workforce. Trump Taj Mahal. Contact GCSAA at 800-472-7878
  
- Dec. 11**      **GCSANJ Annual Meeting**, 11:30 a.m., Topaz Room, Trump Taj Mahal. Contact Judy Policastro at 973-379-1100.
  
- Dec. 11-13**    **NJTA EXPO**, Trump Taj Mahal. Contact NJTA at 732-821-7134
  
- Jan. 16, 2002** **GCSAA/GCSANJ Seminar**, Turfgrass Traffic Stress: Physiology and Management. Rutgers University. Contact GCSAA at 800-472-7878

# Ed Mellor nominated for second term as president of GCSANJ

The Nominating Committee of GCSANJ has announced the following slate of officers for the year 2002:

## President

**Ed Mellor**

**Colts Neck Golf & Country Club**

## Vice President

**John O'Keefe, CGCS**

**Preakness Hills Country Club**

## Treasurer

**Pat Campbell, CGCS**

**Panther Valley Golf & Country Club**

## Secretary

**Bruce Peebles, CGCS**

**Spring Lake Golf Club**

Elections will be held during the annual meeting on December 11<sup>th</sup> at the Trump Taj Mahal. Be sure to register for and attend this important business meeting.

The Nominating Committee consists of one voting member from each district. Representing the districts are: District 1, Paul Parascondolo, Old Tappan Golf Club; District 2, Brian Remo, Richmond County Country Club; District 3, Tom Tuttle, Trenton Country Club and District 4, Tom Grimac, Tavistock Country Club. The committee chairperson is Ken Krausz, Paramus Golf. ¶

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## Are you ready to save a life?

*Continued from page 1*

clubhouse staffers.

All golf club employees should have instructions about what to do in the event of an emergency. Club members should also be apprised through newsletters or posters prominently displayed in the locker rooms.

### How Can We Tell if Our Plan Is Sufficient?

Have a physician and the local EMS unit review your emergency procedures. The golf facility should conduct emergency drills twice a year.

Let's hope you never have to use your AED. But if you

do, you'll get only one chance. Make it count. A life may depend on it.

For more information about the Links for Life campaign, phone 800-438-0489 or visit [www.golfdigest.com](http://www.golfdigest.com).

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## Changing Times

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can make me believe that we will be a better nation after this. Sure we all have our flags out and we have come closer as a nation, but we paid too high a price for all the goodwill that it has generated. I already see a lot of that goodwill is no longer shared when we get behind the wheel of a car.

I'm sorry, but I just had to get that off my chest, I am not really a happy camper right now. I know that time heals all wounds and that things will get better. My heart goes out to anyone who lost a loved one during these tragic times; I can not imagine how some of the survivors are handling this. Let's face it, our lives and the way we live and think have

been reshaped.

It is tough to write this, mostly because I could go on forever and not get close to how I really feel. I think that many of you are feeling the same. I'll end this before it becomes a rant. I wish everyone well.

Let's go out and enjoy the weather, it is going to get cold tonight. My twisted smile will probably return in the morning, but for now I'm going to deal with my new outlook on life, and, hopefully, you will see the "Kinder, gentler Ken" at many of the winter educational opportunities.

God Bless America! ¶

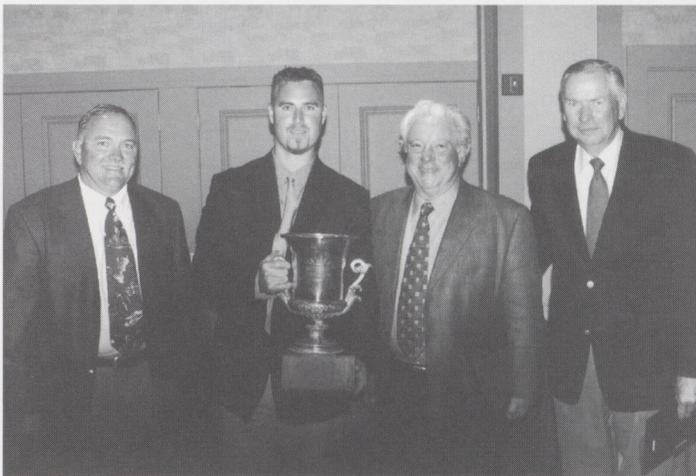


# GCSANJ news

## A GCSANJ FOUNDING CLUB HOSTS THE INVITATIONAL

By Shaun Barry  
GCSANJ Commercial Representative  
Aventis Environmental

In 2000 our Association sent out a letter to all of the clubs whose greenkeepers had been part of the force behind the formation of what we now call the GCSANJ. We were going to celebrate our 75th year in a big way, and we were hoping to have all of our 2001 monthly meetings at the clubs from which our founding members came. The first call came from a young man whom I did not know. He was Mark DeNoble from Shackamaxon G. & C.C. I was a bit surprised.



A very proud team from Richmond County pose for the camera after winning the team event at the Invitational. Left to right: Bernie Kosinski, Brian Remo, Art Puglisi and Jim Crowley.



Mark DeNoble accepts our congratulations and thanks from President Ed Mellor for hosting the Invitational.

Where was Jack Martin and why was Mark making the call? It turns out that Jack was stepping down and Mark was now the superintendent. Jack would still be part of the operation and he was quite thrilled with the future. He said that this young man would do a wonderful job. As has been the case throughout the years, Jack was correct. Mark is one of those fine young men who have such talent and skill you know that he can only be successful. It would seem like quite a challenge to be hosting your Association's biggest event of the year, but it didn't faze Mark at all. He has a great sense of confidence, and he knew that he would be ready. He was and the course was in great shape.

This was our 25<sup>th</sup> Invitational and it was great. Twenty-five teams were scheduled to attend and 24 were able to be there, which is quite amazing. Our country was just starting to recover from the shock of watching the acts of terrorism throughout this land. We came quite close to canceling the tournament, but we made the correct decision and the tournament went on. Unfortunately last year's winning team

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# GCSANJ news

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had to pull out, but I know they will be back and they were remembered at the dinner with a moment of silence.

After a brunch that seemed to have every type of food imaginable, our teams headed out to enjoy this fine Tillinghast classic. Included in the field were teams from as far south as Medford Lakes, Moorestown and Little Egg Harbor and as far north as Alpine, Milton and Newton. The field really was from all over the state and most were teams that just wouldn't miss this event. Not one of them was disappointed in any way unless they expected to win. That was reserved only for those teams that made the putts.



*Left to right: Davis DeRosa and Eric Carlson are happy and surprised to have won the Superintendent-Pro event at Shackamaxon G. & C.C.*

This year we added another division. We had some teams that could not bring a professional, so these teams were in a separate event. In this division we had the team of John Carpinelli and Mike Mercer win the superintendent-member tournament. They shot a 57 to edge out Harry Harsin and Bruno Chmiel by a single shot. Harry's team did win the team event without a pro. Their score was a remarkable 53, but they only won by two strokes over Doug Vogel's team from Packanack. Eric Carlson left Lake Mohawk for the day and he teamed up with his pro, David DeRosa, to fire a 60. This gave them a victory in the superintendent-pro tournament over Brian Remo and Bernie Kosinski whose 62 got them into second place. On the team event, however, it was Brian's team that took first place honors. Their 54 edged out Lake Mohawk's 56. This marks the third time that a superintendent from Richmond County has joined with Bernie and the club to take top honors. Hopefully Brian and Bernie are on the same team for many years to come. John Klocksinn from Bowling Green walked away with low pro honors and \$100 after a match of cards with Robin Kohlberger of Newton C.C. Both of these gentlemen shot 69. Our low superintendent was Ian Kunesch. He shot a 71. Ian also had a closest to the pin at 4 ft. 0 inches. Joining him as skills winners were Jim Crowley (Richmond County) at 5 ft. 5 inches and Jeff Pearlman (Alpine) at 4 ft. 9 inches. The last winner was Thom Bishop (Bowling Green) who hit it to 10 ft. from the pin. The long drive winners really connected for their victories. John McKenna (Metuchen) and Ray Steele (Rolling Greens) really earned their prizes in these contests.

The evening was one of fun and remembering. Jack Martin was part of this event with a team of Skip Cameron, Bob Dwyer and Ken Kubik. You know they had laughs on and off the course. They didn't win anything and they didn't expect to win anything, but they were part of this event because it really is a great opportunity for them and all of us to support our Association. If you missed this event you really should try and plan for it next year. The day is always one to remember, and Shackamaxon really treated us like royalty. Perhaps that was because we had a King and a Queen in the field. Whatever the reason was, we could not have enjoyed ourselves anymore than we did. It was a great experience, and I hope Mark and Jack will tell everyone how we felt and how much we enjoyed ourselves.

In closing I need to thank the committee. You know them well because they are at every meeting taking names and making sure that the day will go off properly. John Hyland is always the first one there, and Matt Anasiewicz and Steve Chirip jump right in to help with registration. John's back

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# GCSANJ news

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was killing him so much that he left right after everyone signed in. Steve and Matt played a few holes, but they made sure that they were off the course ready to score the event when the teams started to filter into the clubhouse. It is dedication like this that makes every tournament run so smoothly, and I hope they know how much I appreciate what they do for the Association.

My final thoughts come from what I saw at the Invitational and what I see every day as I travel throughout this state. We can only use our imagination, but I am pretty sure that those greenkeepers from 75 years ago would be amazed and very proud of the conditions of Shackamaxon and of this event and of this Association. We have achieved and exceeded anything that they could have dreamed about, but we have been able to do that because of them. They had an opportunity to start something that would help them and future green keepers and they took that chance. Like them, we may find it hard to believe that conditions can

improve much, but the future is in good hands and I know that if possible, it will be done. Keep up the great work! [

## MURPHY'S LAW AND TOMS RIVER C.C.

By Shaun Barry

Ed McSeaman must be shaking his head in disbelief, and I know that he will never answer his phone if he thinks that I am on the other end of the line. It seems that every time I have called it has been to request the use of his course for the District III meeting. Every time he has agreed and every year some major problem has arisen, and never once has it started out as an agronomic concern. Incredible drought was followed by half of the course being under water, and then Ed had to go to jury duty while being stricken with pneumonia and the list keeps growing. This year the streak

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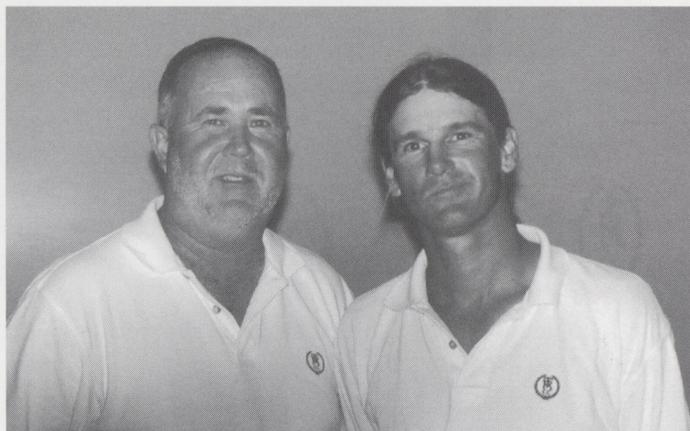
# GCSANJ news

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continued. Four days before our event the course was hit by a freak storm that hung around for hours. Winds were recorded over 100 mph and seven plus inches of rain fell in about two hours. When the storm finally left the total was close to 12 inches of rain in a 24-hour period. About two miles away they received a little more than one inch during



Maria Isabel Thomas was the guest speaker at the Toms River meeting.



Ed McSeaman (left) and Andy Koloduski have enjoyed hosting the District III Meeting, but they are also happy that the day is over.

the same period. Unusual for most people, but quite normal for Ed when he is getting ready to host a GCSANJ meeting. With his Irish background he knows that the "luck of the Irish" really refers to bad luck, aka Murphy's Law.

With a resolve built out of experience and determination, Ed and Andy Koloduski led their crew in the battle to prepare the course for our group. This is hard to do when most of your course is too wet for your equipment to start working like normal. Canceling was an option, but they chose to try and find a way. Two tree companies were soon working on the course trying to clean up the 100 trees that were damaged or destroyed. These folks were still hard at work when we had our meeting. Yes, some turf did die and the course was very wet, but everything was cut and the conditions were extraordinary. I guess this is just what superintendents do.

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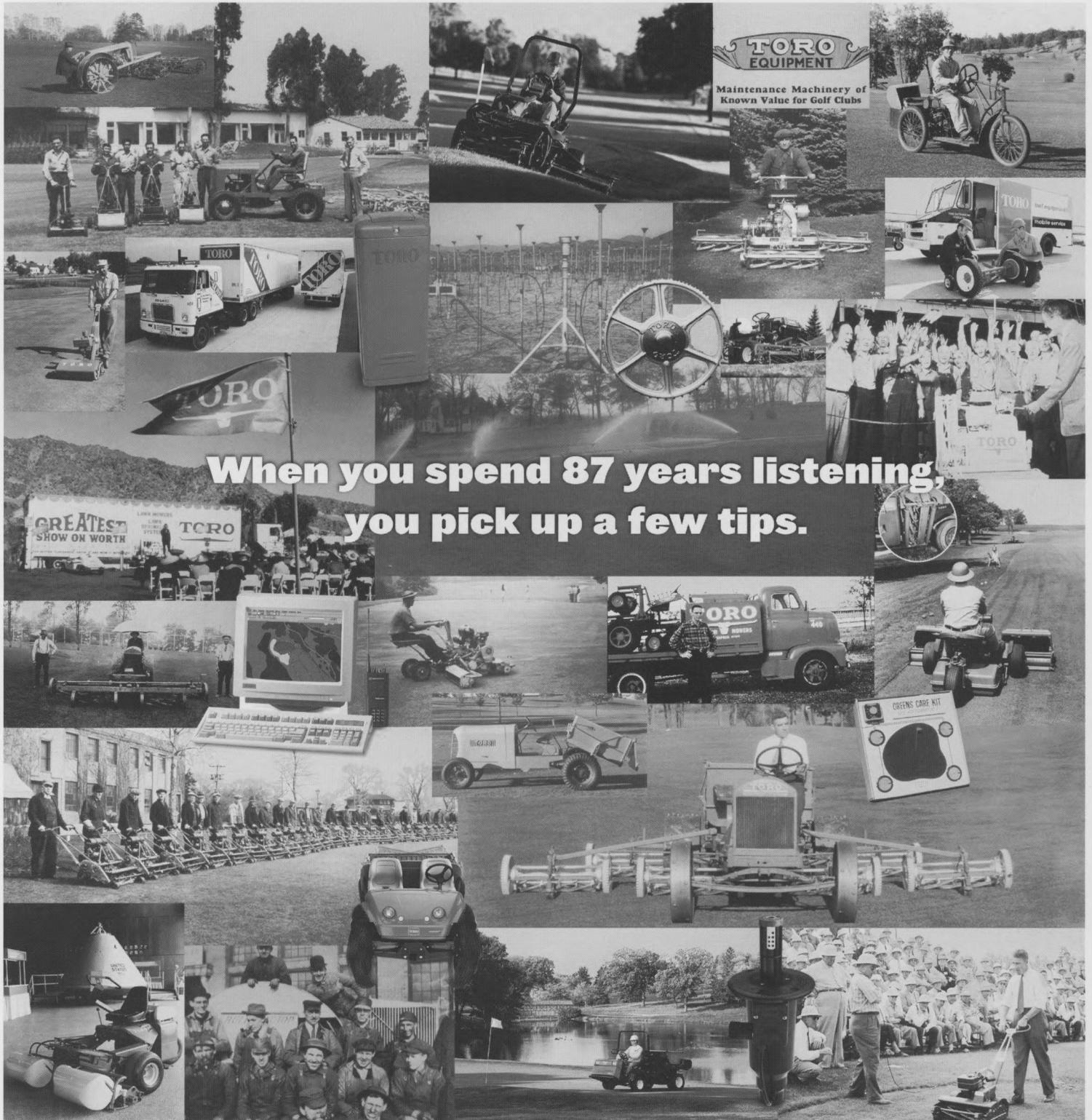
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# GCSANJ news

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Following a wonderful lunch, 68 golfers headed out to challenge the course. Since there are only nine holes, we were at the limit but things moved quite nicely. This course plays a lot longer than its yardage, and the multiple tees really do change some holes in a dramatic fashion. We are blessed with some very fine golfers, but none of them have been able to overwhelm this layout throughout the years.

Leading all scorers was Kevin Giles. His 77 was the low gross score and his prize was donated by Storr Tractor. Jason Buccino's 79 placed second (Fisher & Son) on a match of cards with John Hutchinson. In the B Flight Pat O'Neill's 88 (Country View) edged out Chip Kern (Century Rain Aid) and his 89. Chip took second prize away from Ed Mellor and Jim Cadott on another match of cards. J. Hutchinson (67) and Jim Cross (69) took low net honors in the A Flight, and both of these prizes were donated by Lebanon. The other flight found Ken Miller (70) and J. Cadott (73) taking the prizes offered by Country View and Fisher & Son.

Our closest to the pin contests were won by C. Kern (AT Sales)—17 ft. 11 in.; Chip Dayton (Finch Turf)—15 ft.

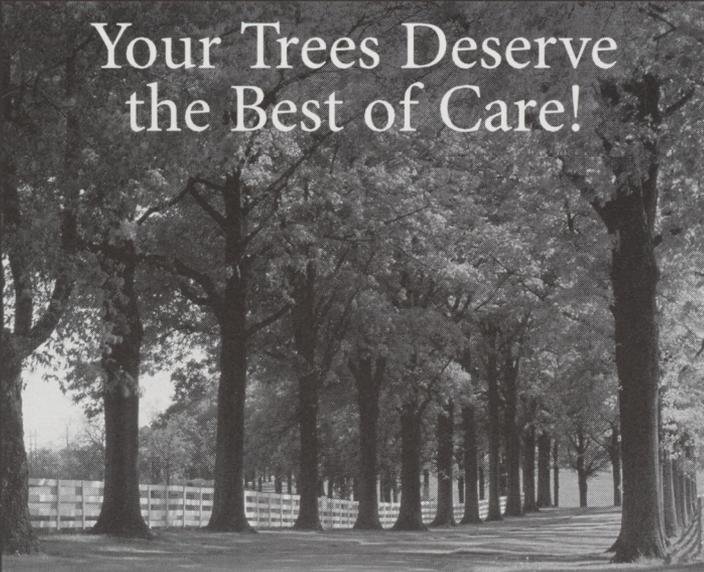
6 in.; J. Buccino (Koonz)—10 ft. 1 in. and K. Miller (Wilfred MacDonald)—8 ft. even.

The long drive contest brought in over \$500 for the GCSANJ Foundation. Normally this contest is run just for bragging rights, but this year we were able to donate a prize to the winner of each flight. Qualifying for a chance at the big prize in October during the Championship were: K. Giles (Storr Tractor); Bill Murray, John Alexander, Chip Dayton, Mickey Stachowski (Storr Tractor); Matt Dobbie, Louis Lugo, Blair Quinn (Torsilieri); John Shenloogian and Fred Rapp. Also competing at the Championship will be our District team, which will include K. Giles (77), J. Buccino (79), J. Hutchinson (79), J. Cross (80), J. Alexander (80) and B. Murray (82).

It was a busy day and we concluded it with dinner and a guest speaker. Bruce Peebles arranged for Ms. Maria Isabel Thomas to address the group. Ms. Thomas is an immigration attorney, and she spoke briefly about her specialty and then answered all of the questions from the floor. If you missed this meeting and would like to speak with Ms. Thomas, please call Bruce and he will be able to help you contact her.

We finally left the course and to my amazement Ed was still smiling. He said that we were welcome back anytime, but I think that smile was because he knew that he was safe for 12 months or at least until I call again. Ed, you are too good of a friend to do that to again. You and the club have just been wonderful to us and we really do appreciate all of your efforts. Thanks for everything. ♪

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# GCSANJ news

Continued from page 10

## THANK YOU

By Ken Thompson, Superintendent  
Stone Harbor Golf Club

I would like to thank the following persons who volunteered their time and efforts to assist my staff and I with the daily preparations of the Stone Harbor Golf Club for the 2001 PGA Club Professional Championship Eastern Regional Tournament, held September 26 through 29:

Jeff Allen  
Ed Casteen  
Steve Malikowski  
Kevin Driscoll  
Phil O'Brien  
Brad Simpkins

I also want to especially thank my 12-year-old daughter Stephanie, who on the 27<sup>th</sup> shone a flashlight over the bunkers so that the staff could rake them in the 5:00 a.m. darkness.

It was a great event and made possible with the talents contributed by these individuals. Thanks very much! ¶

## NOTES FROM THE GCSANJ BOARD MEETINGS

President Ed Mellor called the August 16<sup>th</sup> meeting to order at 12:30 p.m.; the meeting was held at Association Headquarters.

It was announced that Mike Leary, longtime GCSANJ member, passed away.

The Irrigation Association of New Jersey held their annual golf tournament. GCSANJ sponsored a hole.

*Continued on page 12*

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# GCSANJ news

## Continued from page 11

Chris Boyle of the Mendham Golf and Tennis Club, recently became Chris Boyle, CGCS.

Bruce Clarke gave an update on the creation of an "impact statement for the green industry."

Roger Stewart and Paul Dotti proposed an all-day education session to be held in November; this will be coordinated by Roger and Paul.

Brian Minemier presented a proposal to have a golf simulator for our booth at Expo.

Letters are being sent out asking for nominations for GCSANJ Distinguished Service Award and Member of the Year nominations for the year 2001.

The assistant superintendents are looking to have their annual meeting at Royce Brook Golf Course, more details to follow.

The 75<sup>th</sup> Anniversary tree planting and dedication at Crestmont Country Club went well.



The GCSANJ web site is getting more members signing on each month.

GCSANJ is joining forces with other associations to put a lobbyist on retainer.

The Water Conservation Alliance is working to get water restriction changes made at the state level before the next drought. This is slow going and GCSANJ is interviewing lobbyists to address this issue.

The meeting was adjourned at 2:30 p.m..

\*\*\*\*\*

At GCSANJ headquarters, Secretary Bruce Peeples called the September 19<sup>th</sup> meeting to order at 12:30 p.m. President Ed Mellor arrived shortly afterwards and thanked Bruce for the fine job he did in Ed's absence.

It was reported that life member Ed Kern passed away.

Gene Mack thanked GCSANJ for the fruit basket he received after his hospital stay.

Mark Kuhns, CGCS, sent a letter stating his intention to run for the Board of GCSAA.

Ed Mellor led a brief discussion about the events of September 11<sup>th</sup> and the welfare of everyone's family and friends.

After a long discussion a motion was made by Roger Stewart, 2<sup>nd</sup> by Chris Holenstein to hire State Street Associates as the lobby group to represent GCSANJ and the green industry to make the recommended changes to the drought restrictions. The Board of Directors of GCSANJ met with at least three lobby groups and were most comfortable with State Street Associates.

GCSANJ will be the point group for the drought restriction changes and will solicit monies from other green industry groups. There was also discussion about sending a letter to each member club of GCSANJ, explaining that the water issue is one of the most important issues that the clubs will face in the future. The letter, if approved, would solicit donations to help cover the costs of this project. The superintendent members would first be advised that this letter was being sent, or possibly the letter would be sent to the superintendent for presentation to the club.

Jim McNally reported that the GCSAA 75<sup>th</sup> anniversary celebration and delegates meeting was postponed due to the events of September 11<sup>th</sup>.

Roger Stewart and Paul Dotti have finalized plans for the education seminar. It will be held November 1<sup>st</sup> at Fiddlers Elbow. Dr. Rossi on moss control, Bruce Cadenelli on cultivation practices on greens, a round table discussion on anthracnose, Dr. Rossi on new bents and reduced chemical

**Continued on page 13**



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# GCSANJ news

## Continued from page 12

uses, Dr. Murphy on anthracnose, Mark Kuhns, CGCS, Albert Koppenhoffer on grub control, and Jim Baird with a USGA year in review. Pesticide credits will be offered.

The golf simulator is a go for Expo with commercial contributions to cover most of the costs.

The 75<sup>th</sup> anniversary cruise was cancelled, as it was to travel around the New York skyline on September 29<sup>th</sup>.

The educational seminar will be posted on the web site.

The 2002 budget was discussed as well as the Alampi and Associates contract proposal.

The meeting was adjourned at 3:22 p.m. ¶

## S.I. SUPERINTENDENT RECEIVES PROFESSIONAL CERTIFICATION

Brian M. Remo, golf course superintendent at Richmond County Country Club, has been designated a Certified Golf Course Superintendent (CGCS) by the Golf Course Superintendents Association of America (GCSAA).

Remo has been the superintendent at the Richmond County Club in Staten Island, N.Y., since 1999.

GCSAA instituted the certification program in 1971 to recognize outstanding and progressive superintendents. Approximately 1,700 golf course superintendents currently hold "CGCS" status.

To become certified, a candidate must have at least three years' experience as a golf course superintendent, be employed in that capacity and meet specific post secondary education requirements and/or continuing education units (CEUs). The candidate must then pass a rigorous six-hour examination covering knowledge of GCSAA and its certification program; rules of golf; turfgrass management; pest control, safety and compliance; and financial and human resource management.

As part of the certification process, an on-site inspection of Remo's golf course operation was conducted by two certified golf course superintendents: Ken Krausz, CGCS, Paramus Golf Club, Paramus, N.J., and Elliot Lewis, CGCS, High Mountain Golf Club, Franklin Lakes, N.J. ¶

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## GCSAA'S 75<sup>TH</sup> ANNIVERSARY CELEBRATION RECONSIDERED

(and other notes)

By Tim O'Neill, Superintendent, The Country Club of Darien  
GCSAA Director

In my term on the GCSAA Board of Directors (I can't believe I've almost completed my second full season!) probably the most unfortunate course of events I've had to report is the cancellation of GCSAA's 75<sup>th</sup> Anniversary Celebration, scheduled for September 13 and 14 at our headquarters in Lawrence, Kansas.

As chairman of the 75<sup>th</sup> Anniversary Resource Group, I saw firsthand the extensive planning and preparation that had gone on for many months preceding the September

dedication, golf tournament and gala dinner. All three of the events were part of a spectacular two-day celebration planned in appreciation of our profession and the association. In light of the tragic events of September 11, the "show" understandably could not go on.

Although it's impossible to reschedule an event of this magnitude, GCSAA is hoping to fold the celebration into a grander-than-usual finale to the Orlando Conference and Show in February. The Board and staff are currently brainstorming options.

Also affected by the terrorist attacks were numerous committee meetings and the Chapter Delegates Meeting. Though the delegates' meeting wasn't cancelled, it has been rescheduled for December 1 and 2. As always, in addition to association reports and discussions, this annual meeting offers chapter delegates the opportunity to hear from the slate of candidates running for the GCSAA Board of Directors.

At this year's meeting, I will be a candidate for the office of Secretary/Treasurer. I appreciate the opportunity to be considered and am looking forward to the challenge. ¶

## PDI PLANNING STILL GOES ON

On other fronts it's pretty much business as usual. Working with the other directors and GCSAA staff as the Membership chairman, I've become immersed in the planned implementation of the PDI. In particular, the Membership Committee's focus this past season has been to perfect the long-talked-about Code of Standards that will define and regulate qualifications for Class A status. This document will include:

- Eligibility requirements for Class A
- Application and reclassification processes
- Renewal and re-entry requirements
- Point description and values for both education and service that are required for members to achieve—and then retain—Class A status
- An appeal process for members who wish to inquire about various membership rulings

The review process for the Code of Standards hasn't ended. Committees and staff will continue to fine-tune this document in preparation for the launch of the PDI in July 2003. ¶

**Continued on page 15**



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Continued from page 14

## BOARD MEETING HIGHLIGHTS AND HAPPENINGS

The GCSAA summer Board meeting was held in Charleston, S.C.—home base for President Tommy Witt. In one day, we covered a substantial amount of ground:

- We approved a partnership agreement with the National Irrigation Association to provide education to superintendents at the Conference and Show, as well as through affiliated chapters. We also approved an agreement to jointly develop and promote a Golf Course Irrigation Auditors program, designed to help superintendents analyze their water needs and irrigation efficiency.
- We renamed the boardroom at headquarters in Lawrence the John Morley Room after the founder and first president of GCSAA.
- We reviewed present and potential sponsorship opportunities, which enable GCSAA to provide services

and events that would not be possible with GCSAA funds alone.

- We reviewed the financial statements of the association and heard a report from the CEO.

Other noteworthy discussions at the meeting included:

- The pricing of educational programs. The association is continuing to explore and develop new ways to deliver educational programs so that they're easily affordable and accessible to members. We are looking closely at the Internet as a viable option.
- The proposed SOP for the newly created GCSAA Political Action Committee (PAC). This is important stuff. The PAC is intended to back candidates for federal election who support the interests and concerns of the golf course superintendent profession and the golf course management industry. The PAC can accept only individual contributions—none from the association. GCSAA can, however, fund the administrative costs of operating the PAC (managing bank accounts, bookkeeping, coordination reports, etc.), as well as any costs associated with communications and solicitations.
- The association's Internet—or E-Commerce—strategy. We reviewed conclusions gathered from industry focus groups on the E-commerce option and decided to pursue the on-line mall or "storefront" model. Conceptually, the mall will work much like our trade show: GCSAA will lease storefront space on line, and then all transactions will be strictly between the superintendent and the supplier.

For superintendents, it's an opportunity to research and purchase products 24 hours a day. For suppliers, it's an opportunity to set up shop in the turfgrass management industry's most trafficked web site for only a fraction of the cost of creating and maintaining their own E Commerce site.

GCSAA will continue to work with Nterline (a division of XS Inc.) in developing the on-line mall.

Now that things in our country seem to be getting back to normal—at least as normal as they will ever be from here on in—I, along with the association Board members, am looking forward to getting back to business as usual as soon as possible. The impact of our national tragedy on the association will be a topic of discussion at our upcoming fall Board meeting. 🙏

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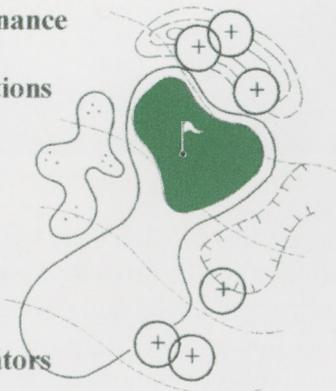
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# Company comes to aid of students

By Robert Duncan  
Golf Course Superintendent  
Howell Park Golf Course

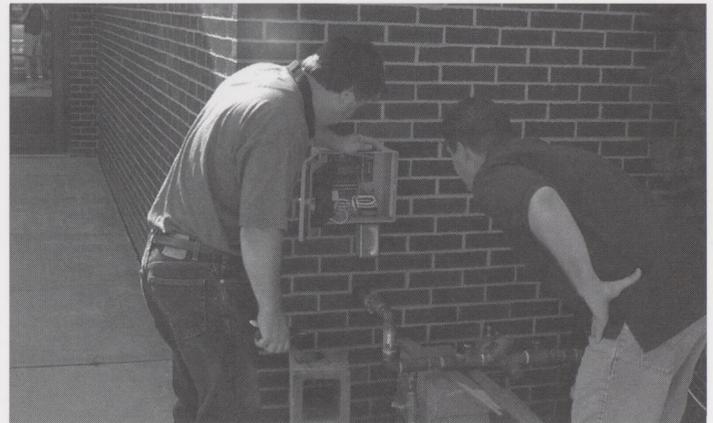
As a golf course superintendent for the past 25 years for the Monmouth County Parks System, one of the most rewarding parts of my job is the opportunity to help those coming into the industry. Sharing my knowledge and experience with the Monmouth County Career Center students has proven to be beneficial for the students as well as me.

I have been involved for the past four years with a project that is very special to me. I have been very fortunate to be able to be involved with the Monmouth County Career Center horticultural program. Students are brought to Howell Park Golf Course for work-study programs and job shadowing programs. From this association came the construction of the par three golf hole at the school, which acts as a living classroom for the students. I have acted as a consultant to the construction of the golf hole and provide technical assistance throughout the year. During one of my meetings with John Neyhart (horticultural instructor at the school), John and I were discussing various projects for the students for the summer months, when John suggested an automated irrigation system would be a good project for the students to work on. What transpired next makes you proud to be part of this industry.

I contacted Fred Rapp from Storr Tractor to see if Storr would be interested in getting involved with our project. I was looking for professional help for this project. Fred took my request back to Mary Lou DesChamps who immediately said yes, Storr Tractor would donate all materials needed for this project. Not only did she donate materials that consisted of pipe, heads, wire, gate valves, controller, booster pump, plastic valve boxes, snap valves and back flow preventor, she also allowed Fred to design the double row system that would be installed. Fred met several times with John on the design and the plans were completed.

John and the students started work on the installation in June by trenching in the main line coming from the school to the golf hole. After this was completed, Fred told John he would be there to help him with the remaining installation. Not only was Fred there, but on July 11, Mary Lou had the Storr Tractor irrigation division there to help. For someone to allow six people from her company to come to a school in Monmouth County and donate their services is truly a remarkable gesture and shows a commitment to the education of our students.

Storr Tractor personnel who were there and who instructed the students in the hook-up of the system were Fred Rapp, Duncan MacRae, Rick Krok, Al Caponigro and Steve Armbruster. Mary Lou also had Bill Kutz from her company's



Dingo sales division there with a trencher to trench the lateral lines for the irrigation system. As a superintendent who is actively involved with this entire golf project, I cannot thank Mary Lou and the Storr Tractor company enough for their donation, cooperation and assistance in this endeavor. It is extremely gratifying to see a company in our industry step forward and help with the education of these students and students of the future.

The irrigation system is now on line and working beautifully. 🌱

# Technology advances golf course conditioning and the game

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## *Times Have Changed*

In the 1800s, long before there were precision mowers, high-tech irrigation systems and sophisticated mapping technologies called Global Positioning Systems, greenskeepers like Old Tom Morris used sheep to chew the grass and scythes to shape greens and fairways. Times have definitely changed since the days of Old Tom, with technology playing an influential role in the advancement of the golf course superintendent profession and the game of golf. These developments have enhanced conditioning practices to assist superintendents in their efforts to provide golfers with the best experience on the links.

"I think the job the superintendents have done is the biggest improvement in golf today," said Hall of Fame golfer Byron Nelson. "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."

***A textile engineer from Stroud, England, created the grass mower by modifying a machine used by the textile industry that removed the nap from cloth and carpet.***

## *Evolution of the Mower*

In 1830 Edwin Beard Budding invented the first reel mower rightly called the "Budding" mower. Budding, a textile engineer from Stroud, England, created the grass mower by

***Continued on page 18***

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# Technology advances golf course

*Continued from page 17*

modifying a machine used by the textile industry that removed the nap from cloth and carpet.

A Scottish landowner purchased the Budding mower, only to find that it could not mow his 2-1/2 acre lawn. He hired James Shanks to build a mower that could do the job. Shanks patented his design for a 27-inch mower pulled by two men or a pony. This was the first horse-drawn mower. Mowers pulled by draft animals were originally designed the same way as push mowers. The horse-drawn mower was eventually designed with tall side wheels so that longer grass would get a better cut, and the operator could sit behind the horse instead of walk behind.

In the early 1900s, several improvements were made to the mower. More companies added a cutting height adjustment to their mowers. A cutting reel in a frame that could be lifted when not in use was designed. Land rollers were ribbed to give better traction on wet grass.

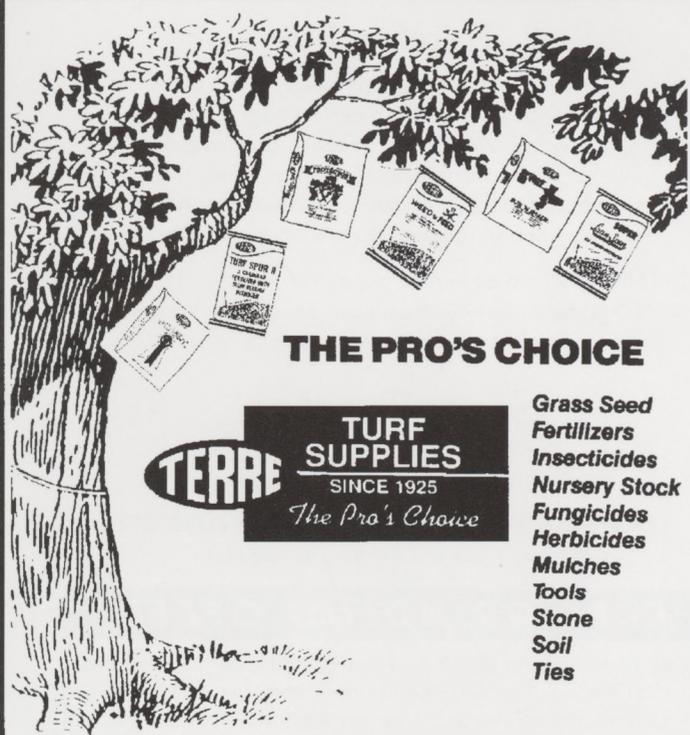
In 1902, Ransomes Ltd. introduced a 42" riding model and 24" pedestrian model gas-powered mower designed by W.J. Stephenson-Peach. One year later, Thomas Green

introduced a gasoline-powered mower, and in 1904 James Shanks produced two models of gasoline-powered mowers. Coldwell and Ideal also produced early gasoline-powered mowers that weighed much less than steam-powered mowers. As these early power mowers were very expensive and difficult to maintain, most people purchased push mowers or mowers pulled by animals.

After World War I, the popularity of golf increased and so did the need for more efficient mowers. By the 1950s the ease and efficiency of riding reel mowers made them very popular for golf courses.

In 1968 Ransomes Ltd. introduced the hydraulic 5/7, which is a five or seven gang unit with hydraulic powered motors on each gang unit. This invention improved the cut of the gang mower. It did not matter how fast or slow the tractor was going, the cuts were constant. Hydraulic power also meant that units could be raised by the operator without stepping off the tractor. During the 1960s gang mowers were further improved by permanently mounting the units to the tractor.

*Continued on page 20*



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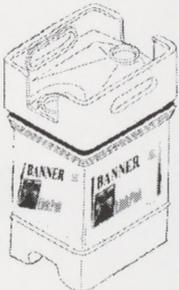
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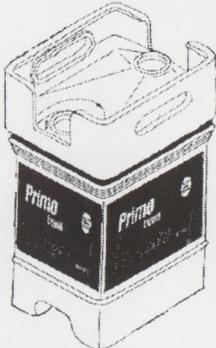
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For a limited time, a personalized brick can be yours for the donation amount of \$100 per brick. Each brick may include a maximum of three lines of 13 characters (including spaces). To order your brick(s), complete the form below and mail it with your check (made payable to: New Jersey Turfgrass Foundation) to: NJTA, PO Box 340, Milltown, NJ 08850-0340.

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Total Amount Enclosed \_\_\_\_\_

\$100 (per brick)

My check is enclosed  
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My 13 character (including spaces), three line inscription will read:

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# Technology advances golf course

Continued from page 18

Mowers of today offer precision cutting to the millimeter, as well as being easier to operate. Because of the new technology, superintendents can make greens more consistent and playable.

## Rainmakers

For greenkeepers who had been battling hot, dry weather, 1927 brought relief with the introduction of turf equipment that made watering easy. Previously, superintendents were limited to available on-site wells, sunken storage barrels or makeshift hose attachments.

The innovative New Pelican Fairway Sprinkler, produced by Pelican Works (based in Detroit, Mich.), was featured in the March 1927 issue of *The National Greenkeeper*. Despite its odd appearance, the sprinkler had all the bells and whistles a superintendent could possibly want. It could travel 300 feet, dropping the hose as it went. An automatic shut-off valve and a signal lantern for use in night watering made the machine an asset to any golf course maintenance staff.

As the year progressed, so did technology. In its July 1927 edition, *The National Greenkeeper* featured the Toro Fairway Sprinkler, a sprinkler system with yet another design advance, multiple sprinkler heads. Both devices proved to be labor-saving and economical. The multiple-head system anticipated present-day irrigation systems.

Today's software is available to automatically shut down the irrigation system under certain weather conditions.

Because of computer technology, fertigation records can be compiled and stored for easy access.

## Important Technological Advancements

New technology has improved all facets of the game of golf through more aerodynamic golf balls and titanium clubs, but just as important created an impact on the maintenance aspect of the golf course. Other new technologies most superintendents could not live without today include:

- TGRs (turfgrass growth regulators) that strengthen cell walls for disease and insect resistance and thereby reduce mowing, water and fertilizer requirements.
- Computer-controlled irrigation systems to calculate water requirement and maximize pump station performance.
- VFDs (variable frequency drives) in irrigation pump motors that reduce costs and improve efficiency.
- Siphon drainage systems to remove excess water quickly from poorly drained areas.
- Sub-air greens drainage systems and extraction systems that increase soil oxygen and remove toxic gases.
- Subsurface warming systems to keep soil temperatures in a range conducive to turfgrass growth to extend the season of playability.
- Fan systems to improve air movement over greens surrounded by trees or other impediments.
- Global Positioning Systems (GSP)-based surveys form the base maps for Geographic Information Systems (GIS) maps, whose detailed, highly-accurate imagery of every course feature allows for accurate measurements and monitoring of a wide range of activities, including vehicle traffic, irrigation, chemical applications and pace of play.
- Standardization of soil lab procedures and analyses to provide accurate and comparable information no matter where your testing is done.
- Weather stations and instant weather data through satellite systems or computer programs.
- Hyperspectral imaging, the latest technology, which uses an airplane with sophisticated on-board sensors and software to take readings at 288 different wavelengths of light in order to make detailed stress maps of turf so that superintendents can identify where and when their turf is in trouble before symptoms appear.

If Old Tom could see how times have changed, he would most likely test out this new equipment for himself. ☺



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# Membership Update

The following new members were approved:

Name	Club - Affiliation	Class	District
Timothy B. Treptow	Fairmont C.C.	C	2
Carl M. Terek Jr.	Battleground C.C.	C	3
Jeffrey L. Berg	Valley Brook G.C.	A	1
Alfie Gardiner	Simplot Partners	AF	4
David I. Milkeiky	Ernst & Young	AF	3
Valerie Lawrence	Forsgate C.C.	C	3
Geoffery P. Kleid	Forsgate C.C.	C	3
Brian E. Wenrick	Sand Barrens C.C.	C	4
Jim Carr	Old Yorke	C	
Charles Baker	UHS	AF	4
Tim Christ	Hamilton Farms G.C.	A	2
John McShane, III	Hamilton Farms G.C.	B	2
Michael Gornet	Hamilton Farms G.C.	B	2
Dan Mitchell	Mendham Golf Club	C	2
Charles Clarke	Woodbury C.C.	A	4



The following members have achieved the status of Life A members:

- Jim Gilligan
- Phil Scott
- Les Carpenter, Sr.

Shawn Reynolds, the new superintendent at B.L. England Golf Course, has been reclassified from Class C to Class B.

## Turfgrass Management Distance Education Program available

A new certification in Turfgrass Management Distance Education Program is now available from the University of Georgia. This program has been specifically developed for those who wish to pursue a series of college credit courses in turfgrass management and earn a one-year Turf Certificate at the same time. Members of the University of Georgia Turf Team developed the curriculum with input from the staff of the Education Department of GCSAA.

Some highlights of this new program are:

- All courses earn college credit
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- Extremely cost effective (\$110/credit hour)
- On-line registration available at [www.gactr.uga.edu/usgis/TMC.html](http://www.gactr.uga.edu/usgis/TMC.html)

For more information, please contact Certification in Turfgrass Management, University System of Georgia Independent Study, 1197 S. Lumpkin Street, Suite 193, Athens, GA 30602; telephone 800-877-3243; e-mail [usgis@gactr.uga.edu](mailto:usgis@gactr.uga.edu).

# Golf course management ... Taking it to another level

*Presented by the Golf Course Superintendents Association of America*

**A** basic tenet of the free-market system is that competition is good for business. By-products of such competition are companies that operate more efficiently and consumers who benefit from the downward pressure on prices.

Once largely unaffected by competitive economic forces, golf is now experiencing the influences of an increasingly crowded market where participants seek to differentiate themselves. But if golf facilities are to become more efficient and stand out from the competition, they must have the talent to function at a higher level.

Over the past 75 years, the Golf Course Superintendents Association of America (GCSAA) has provided education, information and representation to the men and women who manage golf facilities. The combined efforts of GCSAA and the golf course management industry have enhanced the efficiency and effectiveness of golf course operations. Golf course superintendents went from on-the-course, trial-and-error training to formalized education and continued learning opportunities. Accordingly, golf course condition quality increased and facilities operated in a more businesslike manner.

But times change, and so does the recipe for success. Recognizing the continued need to keep pace with the marketplace, GCSAA members in February 2001 approved a membership standards bylaw amendment that will showcase the knowledge, skills and abilities of the golf course superintendent. Beginning in July 2003, GCSAA Class A members will be responsible for completing entry-level and ongoing requirements for continuing education/service, tenure as a superintendent and a pesticide application license.

A key feature of the continuing education program is development of occupational core competencies. The establishment of these competencies will further focus and enhance the education GCSAA provides to golf course superintendents and the golf course management industry. One such application of these competencies will occur in the GCSAA certification program. To achieve "Certified Golf Course Superintendent" status, candidates will have successfully completed a rigorous program of study and professional experience over and above that required of Class A, Superintendent Member or Class C members.

Ultimately, GCSAA members will be better equipped to perform their duties as turfgrass managers, facility executives or industry professionals by having to attain the new membership standard. For golf courses, a more talented

employee sets the stage for improved operations that benefit the facility and its customers. In short, he/she adds value to

*All too often golf course management operations are thought of solely as an expense. However, the work of the experienced superintendent results in input savings that ultimately enhances the bottom line.*

the facility.

How might added value be manifested for a golf facility? Consider that an experienced superintendent has been on the front line before, and is more likely to respond appro-

*Continued on page 23*



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# Golf course management

*Continued from page 22*

privately in a crisis situation, such as an irrigation malfunction, equipment failure or unexpected onset of disease. An experienced superintendent is generally more likely to manage a staff more effectively and efficiently, eliminating waste or the oversight of details that often distinguish one facility from another. All too often golf course management operations are thought of solely as an expense. However, the work of the experienced superintendent results in input savings that ultimately enhances the bottom line.

While education provides the golf course superintendent that foundation for effective golf course management, the facility also benefits from the service he/she provides to the community. The ongoing education/service requirement recognizes the involvement of GCSAA members in supporting junior golf, youth education, philanthropic events and other outreach activities. If there is a common thread among these professionals, it is the service they provide to their facilities,

schools, communities and professional organizations.

"The creation of membership standards was never offered as a guarantee that a particular superintendent would be transformed into a higher performer," said GCSAA President Tommy D. Witt, certified golf course superintendent at the Kiawah Island Club. "It tells the golf community that GCSAA has set a higher standard for its members. It is one that entails experience, rigor and participation in state-of-the-art education and training. The initiative takes the profession to another level that will ultimately benefit the facility and the golfer."

Those intimately involved in the golf industry know that the golf course superintendent has a direct impact on the economic vitality of a golf facility and is a key contributor to a golfer's experience. As a result of the increased standards, the input of the golf course management professional will become more valuable and more apparent to the golf community. □



During its recent meeting, GCSAA's Board of Directors approved changes to the Associate membership classification, making it more accessible to all golf course employees!

## Expanded Membership Opportunity for Golf Course Employees!

To qualify for Associate membership, you must meet the following requirements:

1. You must be employed within the golf course management profession.
2. You must be employed by and have your application attested by a voting (Class A or B) member of GCSAA.

### How to Apply:

If you are currently a member of GCSAA, you will need to complete a reclassification form and have it attested by a voting (Class A or B) member of GCSAA.

If you are not a member of GCSAA, you will need to complete a membership application and have it attested by a voting (Class A or B) member of GCSAA. Once you've completed your application and enclosed your dues payment of \$125, simply mail it to GCSAA and we'll take care of the rest!

### Associate Member Benefits

- Reduced annual dues of \$125
- Green membership card
- All membership privileges except voting and holding office
- One personal subscription to Golf Course Management

**For more information or to request a membership application call**

**(800) 472-7878** or visit us online at **www.gcsaa.org!**

# Turf conferences – Professional opportunity or a waste of time?

By Pat Gross, Director  
USGA Green Section  
Southwest Region

**W**inter is the time when several educational opportunities arise for superintendents to attend turf conferences and seminars. With so many seminars and meetings to choose from, it is possible to spend a substantial amount of time away from the course. This can prompt managers and course officials to start wondering if the seminars are a legitimate educational opportunity for the superintendent or just a chance to waste the club's time and money for relaxation away from the course.

For some courses with tight budgets, it is difficult for the superintendent to justify the time and expense to attend conferences and seminars. A recent article in the *New Zealand Turf Management Journal* by Richard Odgers offers some great points regarding the importance of attending seminars and helping to justify such attendance to your club management.

**Time Off** – Some may argue that attending seminars is simply time off. True, it is time off, but for the purpose of professional development to allow superintendents to do a better job. It is so easy to get tunnel vision when looking at the same golf course day after day. A seminar, conference or simply visiting another course down the road provides an opportunity to challenge your current method of operation, pick up new tips and compare notes with other professionals.

**Work** – Attendance at a seminar is definitely work related and should not be considered personal time. Skeptical managers or course officials might object that you went to the same conference last year or that the expense of the seminar is just more money spent on nothing. Odgers related an old story about Albert Einstein, who asked one of his students to hand out the weekly test paper he just finished writing. After the papers were handed out, one of the students

spoke up and informed Einstein that the test contained the same questions as last week. "True," replied Einstein, "but this week, the answers are different." The point is that as superintendents, you are faced with many of the same challenges and high expectations, but you are expected to come up with new and innovative answers to solve those problems and produce even better golf course conditions. Attendance at a seminar and collaborating with colleagues can help you come up with some of these answers, and possibly help you learn from someone else's experience or mistake.

**Value** – The money spent on attending a seminar is a good value to the course and your employer. Many industry professionals, including company representatives, consultants, featured speakers and fellow superintendents, are typically in attendance, providing a great opportunity to ask questions and pick their brains either during the formal presentations or in casual conversation during the breaks or lunch. Chances are, somebody in the audience has experience with the same problems facing you. It is also important for you to report back to your committee or employer on what you learned at the conference. You may wish to make a short written report outlining the important information gathered at the seminar and how it might impact your staff and golf course maintenance operation. Also, don't forget to thank your employer for the opportunity to attend the conference and seminar and let them know what a valuable experience it was for you and your club.

When conference season is in full swing, it is important to schedule your time to make the most of the available educational opportunities. Information is changing at a rapid pace, and it is important for superintendents to tap into all the available resources at their disposal. Trade journals and the Internet are a good starting point, but these references cannot provide the valuable personal interaction, camaraderie and enthusiasm of attending a conference in person. ¶

## Penn State now accepting applications

**A**pplications are now being accepted for Penn State's Two-Year Golf Course Turfgrass Management Program for the class beginning in September 2002. There is an application fee of \$35 and the deadline for applications is December 31, 2001.

Applications can be obtained by calling 814-863-0129, visiting the web site at <http://www.agronomy.psu.edu/academic/tmbrotp.htm> or by writing to Golf Course Turfgrass Management Program, The Pennsylvania State University, 456 Ag. Sciences and Industries Building, University Park, PA 16802-3507.

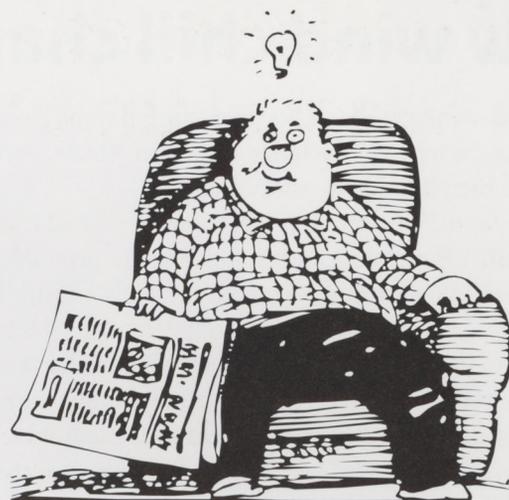
For more information contact Heather Treaster, Golf Course Turfgrass Management Program at 814-863-0129, fax 814-865-3006 or e-mail at [hgw1@psu.edu](mailto:hgw1@psu.edu). ¶

# Did you know ...

- Q. What is an activity performed by 40% of all people at a party?  
A. Snoop in your medicine cabinet.
- Q. If you were to spell out numbers, how far would you have to go until you would find the letter "A"?  
A. One thousand.
- Q. What do bulletproof vests, fire escapes, windshield wipers and laser printers have in common?  
A. All invented by women.
- Q. What is the only food that doesn't spoil?  
A. Honey.
- Q. What occurs more often in December than any other month?  
A. Conception.
- Q. What separates "60 Minutes" on CBS from every other TV show?  
A. No theme song.
- Q. Half of all Americans live within 50 miles of what?  
A. Their birthplace.
- Q. There are more collect calls on this day than any other day of the year?  
A. Father's Day.
- Q. What trivial fact about Mel Blanc (voice of Bugs Bunny) is the most ironic?  
A. He was allergic to carrots.

## And did you know ...

- Coca-Cola was originally green.
- The first couple to be shown in bed together on prime time television was Fred and Wilma Flintstone.
- The percentage of Africa that is wilderness: 28%
- The percentage of North America that is wilderness: 38%
- That San Francisco cable cars are the only mobile national monuments.
- $111,111,111 \times 111,111,111 = 12,345,678,987,654,321$
- "I am" is the shortest complete sentence in the English language.
- Hershey's Kisses are called that because the machine that makes them looks like it's kissing the conveyor belt.
- The phrase "rule of thumb" is derived from an old English law, which stated that you couldn't beat your wife with anything wider than your thumb.
- The name Jeep came from the abbreviation used in the army for the "General Purpose" vehicle: G.P.
- The only two days of the year in which there are no professional sports games (MLB, NBA, NHL or NFL) are the day before and the day after the Major League All-Star Game.



- The nursery rhyme "Ring Around the Rosey" is a rhyme about the plague. Infected people with the plague would get red circular sores ("ring around the rosey"). These sores would smell very badly so common folks would put flowers on their bodies somewhere (inconspicuously) so that it would cover the smell of the sores ("a pocket full of posies"). Furthermore, people who died from the plague would be burned so as to reduce the possible spread of the disease ("ashes, ashes, we all fall down"). [



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# New wind chill chart to be unveiled

This winter, folks who work and play outdoors will have a new way to judge how cold it feels, according to the National Weather Service.

Starting in November, NWS forecasters will use a new Wind Chill Temperature Index, designed to provide a more accurate reading of how the cold air feels on the human skin.

Since 1945, the United States and Canada have used an index that relied on observed winds 33 feet above the ground, and focused on how fast the temperatures—combined with winds—made water freeze. The new index uses the wind effects at face level and an improved calculation for body heat loss.

For example, under the old index system, an air temperature of 20 degrees with a 15-mph wind translated into a reading of five degrees below zero. The new index calculation would translate the same conditions to six degrees above zero.

For a chart comparing the new system to the old one, visit <http://www.noaaneews.noaa.gov/stories/images/windchillfactor-new.jpg>.

“Exposure to cold, biting air for long periods of time is dangerous,” said Jack Kelly, director of the National Weather Service. “Our main goal was to use modern science in revising the index so that it’s more accurate and makes the human impact more prominent.

The new index will be based on:

- Wind speed calculated at the average height of the human face, about five feet (the human face is most often exposed to the cold).
- An updated heat transfer theory, which factors in heat loss from the body to its surroundings during cold, windy days.
- A consistent standard for skin tissue resistance.
- Clear night sky conditions.
- A lowered calm wind threshold from four miles to three miles.

Kelly said, “This information will help people make sound decisions about how to dress for the weather.”

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# Irrigation wiring guide being developed

Reprinted with permission from New Jersey Irrigation News

Each year, severe shocks and fatal electrocutions occur from incorrectly wired and unsafe irrigation systems. The National Electrical Code contains specific

requests for wiring irrigation pumps and associated water distribution systems, but often installers are unaware of these practices. An education tool for irrigation installers is now being developed to explain proper wiring methods and materials for irrigation systems.

“Practical Irrigation Wiring” is now being assembled by a group of electrical wiring experts. Already 100 pages in length, the book addresses the most common problems and National Electrical Code violations, and how to correct them. Grounding procedures, electric service entrances, how to correctly size conductors, wiring phase converters and Code-mandated methods are all explained with photos and illustrations.

The book is being written by Larry Smith at National Electrical Seminars and Richard Hiatt of the National Food and Energy Council (NFEC), along with a review committee. To get a “sneak peak” of the new book, and even suggest topics that need to be included, you can visit the NFEC web site at <http://www.nfec.org>. Click on “News & Notes Online” for the Table of Contents and a few sample illustrations.

For further information, call Richard Hiatt at 573-875-7155 or e-mail at [inof@nfec.org](mailto:inof@nfec.org).

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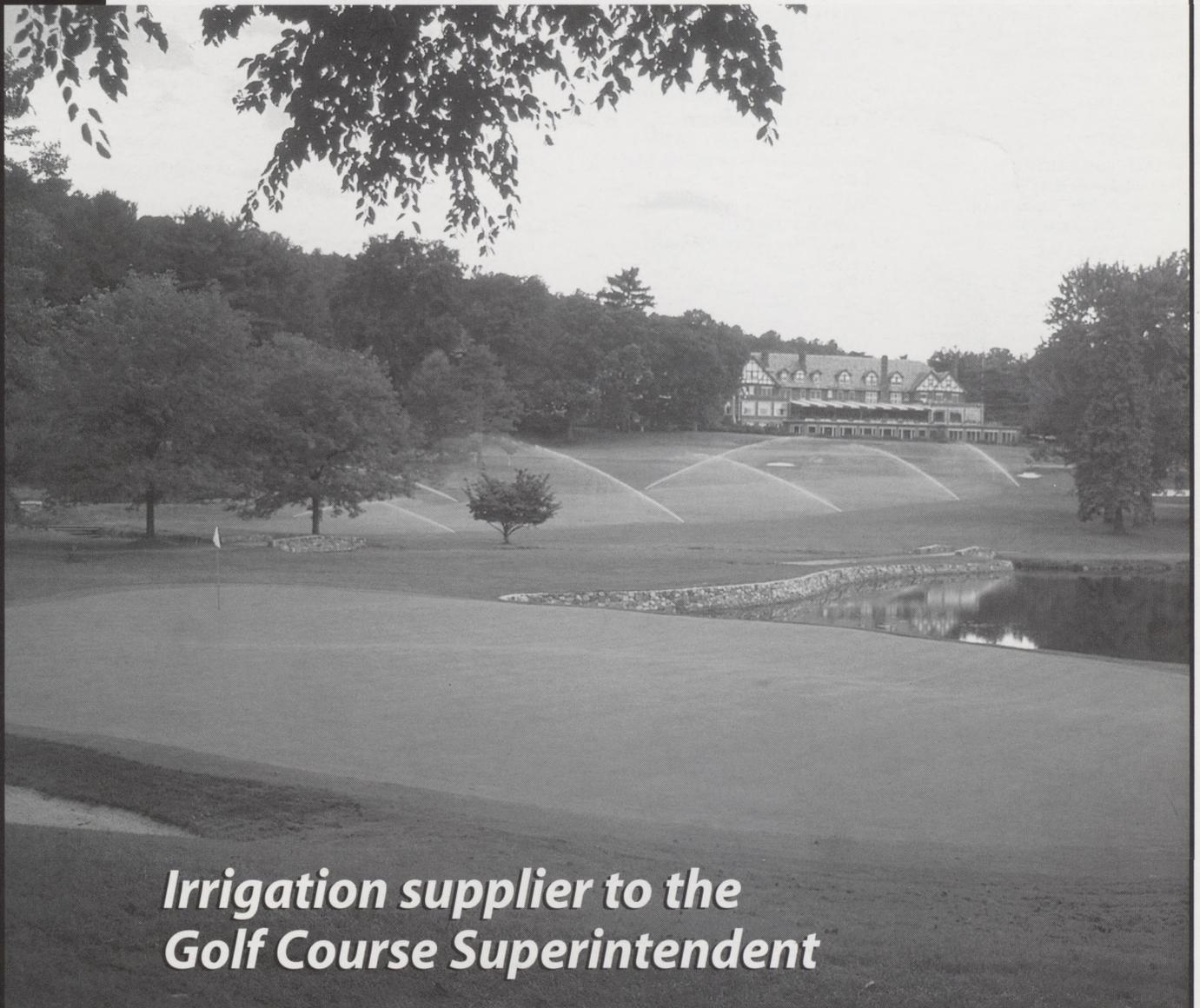
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