



THE NEWSLETTER

Golf Course Superintendents

Association OF NEW ENGLAND, INC.

Sponsors and administrators of the Troll-Dickinson Scholarship Fund — Awarded yearly to deserving Turf Management Students.

November 1995

Green chairmen not monsters after all, say superintendents Cowan & Robertson

November Meeting

Monday, November 6, 1995
Hopedale Country Club
Hopedale, Massachusetts

Host Superintendent
Rober Dill

8:30 a.m. Board Meeting
11 a.m. Regular Meeting
11:30 a.m. Lunch with golf to follow
Cost: lunch only - \$12;
lunch and golf - \$35

Reservations Required
Call by November 2, 1995
(508) 632-0252

You must pay by check - No cash!
Checks payable to GCSANE

Bob Dill has been the golf course superintendent at Hopedale C.C. for eight years. Prior to that he was the superintendent at Ludlow C.C., Ludlow, Mass., for three years. Bob also worked at Franconia C.C. in Springfield, Mass. for 11 years. He has a degree in computer technology and is a graduate of the Turf Winter School. Bob and Mary Ann Dill reside in Hopedale with their two sons, Nicholas (2), and Christopher (6 mo.). In his free time, Bob enjoys golf, softball, and racquetball.

Directions: From I-495 South, take Exit 19 (Rte. 16 & 109). Take Rte. 16 west into Hopedale and go left at the traffic light at Cumberland Farms onto Hopedale Street. At the next stop sign, take a right onto Green Street and go straight through another stop sign at the pond to Hopedale C.C. If you are travelling on I-495 North, take Rte. 140 north to Rte. 16 west and follow remaining directions.

Is it a misconception or are Dean Robertson and Brian Cowan two of the luckiest golf course superintendents in the profession?

The popular premise is that green chairmen can be difficult. They look over the superintendent's shoulder offering advice from an infallible source (their own) and demanding that the turf be kept under control regardless of financial restraints and weather complexities. In a word, they're tough to live with.

However, consider the experiences of Robertson and Cowan and that perception comes tumbling down. According to the way fate has hitched them up with green chairmen over the years, life with the "boss" couldn't be better.

Golf chairmen usually see their tenure decided by the country club board's administrative makeup. Come the naming or election of a new president and a hand-picked green chairman becomes part of the governing change. It's like that at most clubs.

"But not at mine," piped Robertson, who's been in charge of the greening process at the Kernwood Country Club for the last 18 years. "I've had only four chairmen

since I've been here. On the other hand, I know we've had more than four presidents. So, I guess they know how to pick the chairmen here."

Presently, Dean walks in the guiding light of Dr. Howard Rosenkrantz, a golfing zealot whose tee appointments are written in stone. Dr. Rosenkrantz plays Kernwood every Wednesday afternoon, Saturday, and Sunday. Most of the time he visits the club he drops in to chat with Robertson. That's only the beginning of their conversations or perhaps the culmination of those encounters.

"We talk on the telephone every morning at 9:15," Dean revealed. "It's just like a standing order. If Dr. Rosenkrantz hasn't called me by that hour, I do the dialing. What do we talk about? Everything. We talk about the golf course, about the weather . . . about everything in general. It's almost like we're the best of buddies. It's that kind of a relationship."

Robertson explained that his green chairman is a naturally inquisitive person who likes to be kept up to date on everything that's going on around the golf

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On the other hand, I know we've had more than four presidents.
So I guess they know how to pick the chairmen here."***

Dean Robertson
Kernwood Country Club

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508-584-6568
Evergreen Valley Country Club

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Presidents Golf Course

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course. He even gets Dean caught up on things the super may not be aware of.

"There are two different approaches to catching all the little things that have to be addressed by the superintendent on the golf course," Dean said. "The super can take a tour of the place, he can play it, or he can rely on information from members playing the course."

That's where Dr. Rosenkrantz displays a helpful amount of expertise. "He just has the knack for noticing little things others may not," Robertson told. "It's not that he's looking for anything out of place. He just wants everything to be right. I can't complain about that."

Robertson claims that a strong, healthy relationship between the golf course superintendent and green chairman is enhanced when their personalities are compatible. Here's where luck comes in. According to Dean, he and just about every chairman he's had, "seem to hit it off".

Dean has been on a first-name basis with all four of his Kernwood chairmen, who have been composed of two dentists and two business executives. And that air of familiarity leaks over to the maintenance crew. So, it's simply one, big, happy family at Kernwood.

Cowan, just completing his 28th year at the Eastward Ho Country Club, declares the same longevity platform as Robertson, since he's had only five green chairmen in his long and successful stay at his club.

The champion in this respect is a veteran Eastward Ho member who Cowan traces as first being an electrician, owner of a town hardware store, and a member of the Harwich board of selectmen.

"That was and is a great relationship," Brian explained. "It's almost as if we were climbing life's ladder together. I think he was the chairman for six or seven years. We always got along and we accomplished a lot working together as a team. But most of my chairmen have been great all the way down the line.

With one exception.

"Yeah, that's interesting," Brian recalled. "It's the only problem I've ever had in regard to my relationships with green chairmen. This man had been the green chairman of a prestigious club at the other end of the state and when he took over here he wanted me to duplicate just about everything that he liked about his old course. Obviously, that was an unreasonable request that became a demand.

"That kind of head-butting went on for a couple of years until the board realized just how unreasonable the person had been. A change of chairman took place shortly thereafter and the new man fit the

regular mold. Funny thing, too. That chairman who gave me all the grief became one of my closest friends at the club. So, it all worked out for the best."

Cowan's present chairman, Toby Sanders, represents a unique situation in super-chairmen relationships. About 20 years ago Toby worked on Brian's maintenance crew at Eastward Ho. Now Sanders is a CPA.

"Right," exclaimed Cowan. "He's good at numbers. He's also a good golfer, which helps the overall give and take conversation between us. He knows the needs of the golf course from two standpoints - the golfer, which comes naturally, since he's an ardent player - and the superintendent, because he's been on that side of the coin, so to speak."

One other plus on the matter. "That's the respect the incoming boards show for me," Cowan explained. "They always consult me about an incoming green chairman. That's nice. It makes for a better relationship."

Hmmm? Green chairmen may not be monsters, after all.

GERRY FINN

Calendar

- | | |
|-------------------|--|
| Nov. 6 | GCSANE Monthly Meeting
Hopedale C.C.
Hopedale, Mass. |
| Nov. 28-29 | GCSAA Regional Seminar
Golf History, Theory, Construction, and Maintenance
The International
Bolton, Mass. |
| Dec. 5 | GCSANE Monthly Meeting
Thorny Lea Golf Club
Brockton, Mass. |
| Jan. 3 | GCSANE Monthly Meeting
Mt. Pleasant C.C.
Lowell, Mass. |
| Jan. 15-17, 1996 | 65th Mass. Turf Conference & 20th Industrial Show
Boston Marriott - Copley Place
Boston, Mass. |
| Feb. (tentative) | GCSANE Monthly Meeting
Stow Acres G.C.
Stow, Mass. |
| Feb. 5-11, 1996 | 67th Annual International Golf Course Conference & Show
Orange Cty. Convention Center
Orlando, Florida |
| March (tentative) | GCSANE Monthly Meeting
Franklin C.C.
Franklin, Mass. |

The Super Speaks Out:

This month's question: With the recent drought a memory, and a bitter one for some golf course superintendents, what form of headache did it inspire for you when it came time to combat it?

Kip Tyler, Salem Country Club: "I sit here, realizing that all we needed in those three (or was it four) months of rainless weather was one, honest-to-goodness thunder storm . . . a whopper when you get a real drenching. It never happened, and we paid dearly for it."



"Before I get into the gory details, let me fill in the statistics, as dreary as they were. By the month, we received 1.9 inches of rain in July; that dropped to .9 inches in August; we had not a single drop of rain during the first 16 days of September; and when we were talking (on October 4 when some of New England was being inundated by storms) we had experienced the grand total of .2 inches."

"That means we were heavy into a drought. Somehow, I'm told, our course held up pretty well. In fact, there were no complaints from players about playing conditions. Thankfully, we didn't get burned out, but we were dry. The roughs? Another story. Try . . . cooked!"

"Which brings me to Headache No. 1, or our source of water for irrigation. It's a well field, including a creek and some

"Now we are in the midst of headache no. 2 . . . the attempt to find another source of water on club grounds. So far, so bad . . . the combined output is about 20 gallons a minute, which is what I think I can sweat in the height of a drought."

**Kip Tyler
Salem Country Club**

swampy area. In times of normal rainfall, the combination is enough to keep things up to snuff.

"However, these were not normal, moisture-letting times. We simply ran dry when it came time to irrigate, and the City of Peabody had to become a friend indeed because we were a golf course in need."

"Translated, it meant buying water from the city for 31 days. The numbers work down to 200,000 gallons a day. The more important bottom line works down or up to about \$19,000."

"Interestingly, this was the second straight year we had to buy water from the city, and the third overall. Last year the city pumped us water for five days. The only time we needed outside help before that was 10 years ago when the city kept us from drying out for three days."

"The fact that we couldn't replenish our water supply ourselves caused some cut-back in irrigation, and that's where the cooked rough comes into play. The rest of the course got its fair share but we had to be prudent about watering. Somehow we made it because I got good conditioning marks from people playing the course."

Now, we are in the midst of my Headache No. 2, or the distress signals coming from the attempt to find another source of water on club grounds. So far, so bad. The drilling company has managed to get into two holes. One goes down 500 feet, the other 460. As we talk, the combined output is about 20 gallons a minute, which is what I think I can sweat in the height of a drought.

"That kind of response won't do if we have to face another summer like the one that just passed. What we need is a gusher, a real strike that will give us enough water to flood this place in the driest of times."

"What we don't need or I don't need is a repeat of this year, or the sight of a pipe coming from a holding pond being fed water from a pump continuously running, then, all of a sudden, coming to a halt. That's what happened here and led us to the waterworks at the City of Peabody. We shouldn't have to depend on that kind of remedy. We need a gusher. We really do."

Roger Brink, Indian Ridge Country Club: "The town (Andover) gets our good guy award this year. If it hadn't been for Andover, we couldn't have given golfers a reasonably conditioned course. In fact, it would have been total disaster without buying water from the town."



"And that's not just this year. We've had to tap into the town the last couple of years. I don't know the cost, but it's in the thousands. At this point, it's not the issue. Bringing our own source of water up to at least a passing grade is an issue we have to tackle, and a problem we must solve."

"I've been here seven years, and we always seem to be in a situation where we're hoping against hope for some kind of waterless relief because what we have on the grounds just isn't adequate."

"Our sources are struggling. We have two wells that generate 100 gallons of water a minute. A third well, our newest, is pumping out only 40 to 50 gallons a minute, which makes that a questionable quantity."

"Our latest attempt to find another productive well hasn't been of any value. At last count, we had gone down 400 feet and come up with just a trickle. Maybe we'll try digging another hole this year, but we can't really count on a solution based on what we've managed to bring out of the ground in the past."

"It's kind of discouraging and I'm amazed that we fared as well as we did, having to depend on the town while never knowing when its supply might hit bottom."

"Without getting that big (water) strike from drilling, we're destined to go the old route of praying for rain or seeking the town's assistance. To tell the truth, if we get three weeks of dry weather here, we're gasping. That's all it takes to establish drought conditions at Indian Ridge. It's a tough situation to live with. It's scary, too."

GERRY FINN

"If it hadn't been for the Town of Andover, we couldn't have given golfers a reasonably conditioned course."

**Roger Brink
Indian Ridge Country Club**

Superintendents announce election slate

Bruce R. Williams, CGCS, has been nominated for the presidency of the Golf Course Superintendents Association of America. The association's 1996 election of officers and directors is scheduled for Saturday, Feb. 10, during its annual meeting at the GCSAA International Golf Course Conference and Show in Orlando, Fla.

Williams, superintendent at Bob O'Link Golf Club in Highland Park, Ill., currently is vice president of GCSAA. The nominee for vice president is Paul S.

McGinnis, CGCS, of Union Hills Country Club in Sun City, Ariz. McGinnis currently is secretary/treasurer of the association.

The nominees for secretary/treasurer are Dave Fearis, CGCS, of Blue Hills Country Club in Kansas City, Mo.; and George Renault III, CGCS, of Burning Tree Club in Bethesda, Md. Six candidates will vie for two director positions. The nominees are Paul A. Dermott, CGCS, of Oakdale Golf & Country Club in Downsview, Ontario, Canada; Ken Mangum, CGCS, of Atlanta Athletic Club in Duluth, Ga.; Samuel Snyder VII, CGCS, of Hercules Country Club in Wilmington, Del.; Robert J. "Bob" Tillema, CGCS, of Sherwood Forest Golf Club in Sanger, Calif.; Michael Wallace, CGCS, of Hop Meadow Country Club in Simsbury, Conn.; and R. Scott Woodhead, CGCS, of Valley View Golf Club in Bozeman, Mont. Both Wallace and Woodhead currently serve on the GCSAA board of

directors. GCSAA directors serve a two-year term.

Secretary/treasurer candidates Fearis and Renault each have one year remaining on their current terms as director. In accordance with bylaws, the incoming president will make an appointment to fill the director's seat vacated by the successful candidate for secretary/treasurer.

GCSAA's current president, Gary T. Grigg, CGCS, of Royal Poinciana Golf Club in Naples, Fla., will continue to serve on the board of directors for one additional year as immediate past president.

Joseph G. Baidy, CGCS, of Acacia Country Club in Lyndhurst, Ohio, whose one-year term as immediate past president expires, will end seven years' service on the GCSAA board. Board member Tommy D. Witt, CGCS, of Wynstone Golf Club in North Barrington, Ill., has one year remaining on his current term.

Turfgrass giant Manny Francis, Sr. dies at 91

Manuel L. Francis, Sr., golf course owner and one of New England's most renowned authorities on golf course maintenance, passed away at his home in Marshfield, Mass. on Oct. 26, 1995.

Emigrating from Lousa, Portugal at age 15, he soon began his life's work on the golf course as the foreman of a White Plains, N.Y. golf course construction company. Manny was the golf course superintendent at courses in Portland, Me., Amesbury and Haverhill, Mass., and at the Vesper Country Club in Tyngsborough, Mass. before opening his own club, Green Harbor Golf Club in Marshfield, Mass. 25 years ago.

Although Manny, a self-taught agronomist, is best known for the development of Vesper Velvet Bentgrass, he also helped develop aeration equipment, putting green mowers and other specialized golf course equipment. He never patented the grass strain that he found one day while hunting. "Oh, I could have," he told the Boston Herald in 1987, but "when you enjoy what you are doing, you are not looking for the dollar. You are looking for a name. That's what I wanted, a name."

Manny leaves his wife Shirley, a son Manuel N. Francis of Marshfield, three grandchildren, and two great-grandchildren.

The golf course management industry in New England will miss Manny Francis greatly.



Chapter reps help shape GCSAA's future

Representatives from affiliated chapters of the Golf Course Superintendents Association of America met at the association's headquarters last month to discuss ways to strengthen ties between the national association and its affiliated chapters. Ninety-five of GCSAA's 114 affiliated chapters were represented at the meeting in Lawrence, Kan.

The group reviewed plans for dozens of current, new, and potential programs. They continued a two-year discussion of possible changes to the affiliation agreement, which spells out each party's rights and responsibilities, and reached a solid consensus.

This two-year process has involved the annual delegates meetings, a resource group and the chapter relations committee that evolved from the resource group. The importance of chapter relations issues led GCSAA's board of directors to make "Serve the members through chapters" one of its mandates for 1995 and beyond.

Continuing expansion of joint or cooperative programs between GCSAA and chapters requires improved liability protection in both directions, that led to the drafting of proposed changes to the affiliation agreement. The draft affiliation agreement was presented to all chapters in advance of the meeting. The following list summarizes the delegate's recommended changes to the agreement:

- The conference and show privilege for chapter executive directors should be removed from the agreement.
- The affiliation fee of \$500 for new chapters should not be implemented until July 1, 1997.
- GCSAA Class A and B members should make up a majority of the chapter's board and all of its officers.

There should be a dual membership requirement in affiliated chapters and GCSAA starting July 1, 1997. Superintendents and assistants who joined GCSAA or an affiliated chapter before that date would be grandfathered into the respective association. Requiring new members to become members of an affiliated chapter requires a bylaws change. The Standards & Bylaws Committee will meet to draft this amendments and recommend it be put to a vote at the 1996 annual meeting.

GCSAA's Chapter Relations Committee will update the draft affiliation agreement to reflect the consensus of the chapter representatives and will present it to the board for approval later this month.

The re-affiliation process would begin Jan. 1, 1996, with chapters having until March 31, 1997, to complete the process before chapter benefits would be suspended. Any chapter still not meeting requirements by Jan. 1, 1998, would have its affiliated status revoked.

Drought, drought, . . . and more drought: Effect on woody plants often not immediate

by Robert Childs

The summer of 1993 was one of the driest on record for the northeastern United States. The Amherst, Mass. area suffered for over two months between mid-June and mid-August, which is normally the driest time of year, while the eastern part of Massachusetts went almost another month without rain. This type of atypical drought added extra stresses even to our native and established woody plants

and predisposed them to extended problems 1-2 years down the road.

Many times, the ultimate effects of drought on woody plants are not seen for two years after the drought year. Unfortunately, this is now the second year after that major drought, and we are once again in the midst of another harsher than normal drought.

As of this writing, Massachusetts has had below average precipitation for the last five months and most of Massachusetts is

now nearly eight inches below normal rainfall. On Friday, July 7, portions of western Massachusetts were subjected to fierce thunderstorms that produced up to two inches of rain in some areas, in less than one hour. Initially, this may sound like much needed relief, but when rain falls that hard and fast onto very dry soil it usually results in most of the water being lost as run-off. Digging down six inches in the soil 24 hours later reveals very little penetration of the water deep in the soil where it is absolutely needed. In addition, when the soil has been very dry for long periods, many of the fine root tips responsible for water absorption in the upper soil profile have already died.

Much of New Hampshire and Vermont experienced more of a drought than Massachusetts this year. All three states received less than one inch of rain for the entire month of June. Massachusetts received about $\frac{1}{2}$ " of rain on July 1, but this storm stayed mostly south of Vermont and New Hampshire. New Hampshire has had to impose a ban on outdoor fires due to the dryness of the forest floor. These states did receive some needed rain during mid-July but are still running at a large deficit.

Given that we know full well the importance of drought and its effects on woody plants, how do we best design a management strategy for helping our trees and shrubs make it through these very difficult times? We need to take inventory of the plants under our care and evaluate their level of predisposition to drought effects.

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Ponder these facts about water . . .

We in the irrigation industry spend what sometimes seems like endless hours discussing irrigation products, design, and even philosophy. Somewhere among the computer-controlled, radio-assisted, ET driven, pressure-regulated products, we lose sight of the most important element of any irrigation system. With the summer of '93 as a reminder of its supreme significance, here are some interesting facts about our most valuable component...water.

- 78% of the Earth's surface is covered by water.
- Only 3% is not salt water.
- Two-thirds of that is locked in polar ice. That leaves only 1% of the earth's water for all the world's needs.
- Every day, 250 cubic miles of water is evaporated into the atmosphere.
- 95% of America's fresh water is underground.
- The Ogallala, the aquifer that feeds the plains states, is estimated to contain a quadrillion gallons.
- 100% pure water will not conduct electricity.
- 3 trillion gallons a day are used to turn turbines producing electricity (that's 8 times the flow of the Mississippi).
- It takes about 2500 gallons of water to produce a single 8 oz. steak.
- New York City is fed by water mains 15 feet in diameter and 800 feet below ground.

- If water were sold like motor oil, it would have an S.A.E. rating of 1.
- So much water is tapped from the Colorado river that it never makes it to the sea. It simply dries up in the desert of Mexico.
- An acre-foot of water weighs 2.7 million pounds.
- At any given time, the earth's atmosphere is holding about a ten day supply of freshwater.
- Scientists believe that most of the planet's water came to us in the form of ice, frozen in ancient comets which collided with the earth.
- The average 18 hole golf course uses 150-180 thousand gallons for one complete irrigation cycle.
- New York City uses 1.5 billion gallons a day.
- 15% of Mexico's population have no indoor plumbing.
- There are about 75,000 dams in the U.S.
- Irrigation in the U.S. uses about 137 billion gallons each day.
- The average American uses 100 gallons a day.
- The city of Tucson, Arizona now employs "Water Cops" to investigate and fine water wasters.

From *Golf Report*, Fall 1995,
P.I.E. Supply Co., Vol. 8, #1

***Native plants in any region
are highly adapted to
withstand normal seasonal
occurrences of drought,
and it is only severe drought
that leads to stress.
Once a plant is weakened,
it becomes strongly
predisposed to invasion by
diseases and insects.***

Drought...

Continued from page 5

First of all, it is all too common that most transplants from field grown nursery stock have, at best, only 20% of their original rootmass with the average being more in the range of 10-15%. At the time of digging for shipping, most roots get left in the field. Also, certain soil mixtures used for containerized stock are often very light and porous; even when adequate amounts of water are applied to the root zone, most of it may pass directly through the rootball and become unavailable to the plant. Under the best of circumstances new transplants should be considered "stressed" and receive extra care such as proper mulching and weekly watering. Plants that have been in the landscape for a number of years should also receive this treatment. Watering should be done with the use of a soaker hose. These hoses are placed around the root zone and allow water to leak out slowly to be absorbed by

the soil over a period of hours. Many homeowners often are adamant that they have watered their trees and shrubs sufficiently, but what they have done is stood by the plant and wetted the soil by using a hose and spray nozzle, or have employed the use of a lawn sprinkler. Even when puddles have formed from these methods, the water does not move very far into the soil. The upper one inch of soil will most likely retain most of the water. If a lawn is present, it's roots and thatch will undoubtedly be the beneficiary of the vast majority of this water. Lawns with built-in irrigation heads may lead the home-owner to believe that ample water is being applied to meet the tree's needs, however, the opposite is usually the case.

As pointed out by Sinclair in *Diseases of Trees and Shrubs* (Cornell Press), water availability is the primary factor at any given latitude and elevation. That determines the species growing there and their rate of growth. Native plants in any region are highly adapted to withstand normal

seasonal occurrences of drought and it is only severe drought that leads to stress. Once a plant is weakened in this way it becomes strongly predisposed to invasion by diseases and insects (e.g. Hypoxylon atropunctatum and the Two-lined Chestnut Borer in oaks).

Those of us in the field of plant problem diagnostics were sure that we would be dealing with the drought-related problems of 1993 this growing season. Now that our woody plant material has been subjected to yet another round of drought stresses, we have been overwhelmed with addressing this issue and are striving to ameliorate its effects. We will, under the best of future circumstances, be dealing with this for the next 2-3 years.

Reference: Sinclair, W.A.; Lyon, H.H.; Johnson, W. T.; *Diseases of Trees and Shrubs*. 1987, Comstock Publishing, Cornell University Press.

From *Tree News*, Aug. 10, 1995,
a publication of the Umass
Cooperative Extension System

DIVOT DRIFT...announcements...educational seminars...job opportunities ...tournament results...and miscellaneous items of interest to the membership.

MEMBERSHIP

Proposed for Membership: Donald Derico Asst., Franklin C.C., Franklin, Mass.

Welcome New Members: Don Doering, Affiliate, Doering Equipment Co., Franklin, Mass.; Bob Lake, Affiliate, Winding Brook Turf Farm, Inc., Weathersfield, Conn.; Kevin Miller, Assistant, Tatnuck Country Club, Worcester, Mass.

INFORMATION

Congratulations to Tom Colombo of New Seabury C.C., Mashpee, Mass. on becoming a certified golf course superintendent.

The Massachusetts Pesticide License/Recertification applications have hit the mailboxes. They must be completed and returned by Jan. 1, 1996, or you will be required to retake the exam.

The team of Jack Hassett, Kevin Osgood, Jim Fitzroy and Ray Costello distinguished themselves by winning the Jimmy Fund/Cancer Research Fundraiser At Nashawtuc C.C. on Oct. 2 with a score of -11. Congratulations!

Congratulations also to Kevin and Carolyn Osgood on the birth of their second son, Benjamin, on October 25. The 8 pound, 11 ounce Ben joins brother Alexander at home in Foxborough.

MEETING NOTES

Special thanks to Kip Tyler, CGCS, of Salem Country Club for a great job hosting the Turf Research Tournament Oct. 16. Also, thanks to Kirk Hanefeld, Director of Golf, Mary Wilkenson, Head Golf Professional, and the rest of the staff at Salem for their efforts to make the tournament a success.

POSITION AVAILABLE

Golf Course Superintendent, Manchester Country Club, Manchester, N.H. Send resumes to William Bigelow, c/o Manchester Country Club, 180 South River Road, Bedford, NH 03110.

EQUIPMENT FOR SALE

Giant Vac leaf loader/vacuum, 20 hp Kohler, 10" suction hose, new discharge hose, very good condition, \$2000 or best offer. Royer Model 30 power screener, 5 hp B&S engine, very good condition, \$1200 or best offer. Call Mike Nagle, Worcester C.C. at 508-853-6574.

TOURNAMENT RESULTS

Turf Research Tournament October 16, 1995 at Salem Country Club

1st Gross - Manny Francis, Sr. & Manny Francis, Jr., 72
2nd Gross - Dick Anderson & R. Marcos, 74

1st Net - John Kotosk & Sonny MacDonald, 59
2nd Net - Ron Kirkman & Jim Healy, 63
3rd Net - David Stowe & Richard Stowe, 64

Closest to pin #3 - Bill Cohen, 6' 7 1/2"
Closest to pin #6 - Mike Menery, 11' 3"
Closest to pin #12 - Sonny MacDonald, 8' 4"
Closest to pin #14 - Manny Francis, Jr., 2' 31/2"

John Shanahan Memorial **Pro-Superintendent Championship** October 18, 1995 at The Willowbend Club

Team (Gross)
Jim Maddalena & Chris Tufts, The Willowbend Club, 71
Mo Guttman & Pat Lewis, Portland C.C., 77
Jack Neville & Rich Tworig, Ponkapoag G.C., 78
Greg McPhee & Dick Duggan, Concord C.C., 79
Joe Pustizzi & Mel O'Kelly, Rockland G.C., 80

Team (Net)
*Billy Andrews & Barrie Robertson, Nashua C.C., 68
Rich Hasenfus & Ron Kirkman, Needham G.C., 73
Dan Diskin & Bob Dembek, Stow Acres C.C., 74
Kurt Sokolowski & Mike Iacono, Pine Brook C.C., 75
Mike Egan & Mike Hermanson, Gardner Municipal G.C., 75
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Green School is intended to instill a sense of environmental stewardship in the participants. Integrated pest management (IPM) is the foundation of the curriculum.

This 60-hour training program focuses on the management of the landscape as a whole, and would be appropriate for garden center managers and employees, private or public facility grounds managers and personnel, municipal grounds managers, landscape and lawn care operators, nursery operators and personnel, and professional gardeners.

Horticulture professionals will learn about IPM concepts and the optimization of pest control through proper cultural management of turf, woody ornamentals, and other related specialties.

The cost of the training program is \$350. Please register soon; space is limited. The application deadline is Dec. 1, 1995. Call the UMass Extension service for additional information at (508) 892-0382.

DAY 1 Jan. 3	DAY 2 Jan. 5	DAY 3 Jan. 12	DAY 4 Jan. 19	DAY 5 Jan. 22	DAY 6 Jan. 30
Basic Botany & Plant Structure	Basic Plant Pathology	EXAM	Fertilizing Woody Ornamentals	EXAM	Basic Irrigation Systems
Woody Ornamentals: Cultural Practices & Problems	Basic Entomology	Tree & Shrub Insect Problems	Soils	Pruning Trees & Shrubs	Perennial Plant Identification
		Tree & Shrub Disease Problems		Handling Container-Grown Plants in the Garden Center and the Landscape	
DAY 7 Feb. 6	DAY 8 Feb. 13	DAY 9 Feb. 23	DAY 10 March 7	DAY 11 March 12	DAY 12 March 19
EXAM	Turf Physiology & Management	EXAM	Turf Insects	Understanding & Using Pesticides	Power Tool Maintenance & Safety
Sustainable Landscape Design	Weed Biology & Management	Horticultural Calculations	Turf Diseases	Environmental Issues & Regulations	EXAM
Alternative Plant Materials		Turf Construction & Maintenance			
					DAY 13 March 21
					FIELD TRIP Belchertown, Mass. (See course description)

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