

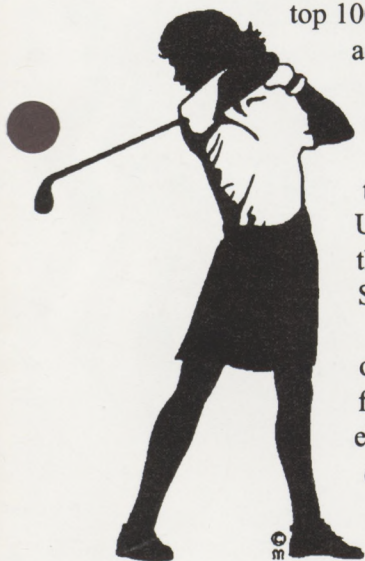
THE GREENERSIDE

Official Publication of the Golf Course Superintendents Association of New Jersey

Hominy Hill to host Women's Amateur Public Links National Championship

by Diane T. Miller

The site of the 1995 Women's Amateur Public Links National Championship is Hominy Hill Golf Course, Colts Neck, New Jersey. The course, a Robert Trent Jones designed tract, is the showcase of the Monmouth County Park System and is rated as one of the top 100 courses in the United States according to the American



Society of Golf Course Architects. Annually, *Golf Digest* ranks Hominy Hill among the top 25 public golf courses in the U.S., said Laura Kirkpatrick of the Monmouth County Park System.

The course, like many others around the state, was formerly an agricultural property, originally established as a cattle breeding farm by shipping magnate Henry Mercer.

Mercer, an avid golfer, decided to convert the tract to

a golf course for his private use in the early 1960s and hired Robert Trent Jones to design and supervise construction of the course. After Mercer's death in 1974, the course came under the county's wing.

Under the direction of **David R. Pease**, general manager of Monmouth County golf courses, and **Ron Luepke**, superintendent at Hominy Hill, the course is prepared to host its latest major event. Previously, Hominy Hill has played host to the Men's Amateur Public Links National Championship, the New Jersey State Amateur, and the Metropolitan Public Links Tournament, among others.

The tournament begins June 19 and runs through Sunday, June 25. The event, sanctioned by the USGA, will feature 132 of the finest amateur women public links golfers

from every region of the U.S. This year's tournament is part of a year-long celebration to mark the 100th anniversary of the founding of the USGA, headquartered in Far Hills, said Kirkpatrick.

Work on the course prior to the tournament has included resurfacing of the 8th and 14th greens, rebuilding the practice green, the 17th green, and the 10th tee to allow the hole to play as a par five, said Luepke, who came to Hominy Hill in 1985. Luepke holds a B.S. in agronomy with a business minor from Delaware Valley College.

"We operate this course in a tour or championship mode regularly," said Pease, who joined the Monmouth County

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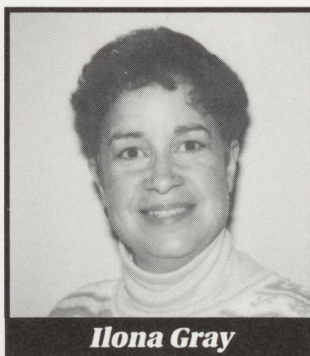
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EDITORIAL



Ilona Gray

Remembering

by Ilona Gray

A memorial is anything that helps you remember a person or an event. All of us carry these remembrances with us for individuals or occurrences that are special to us. As a nation, we have set aside

Memorial Day as a day to remember all of those who have died in combat. This year we mark the fiftieth anniversary of the end of World War II and the twentieth anniversary of the end of the war in Vietnam.

Although these wars have ended, our country is still locked in serious combat on two other fronts. In our cities and towns, the level of what is called "urban violence" has reached a crescendo that cannot be ignored. Even the small community of the golf industry here in New Jersey now has to remember its fallen. An article in this issue of *The Greenside* recounts **Bob Leslie**, who was murdered in Montclair. The tragedy in Oklahoma is as unexplainable as it is unprecedented in United States history. It marks a second front in the struggle within our country. Flags were hung at half mast and a national day of mourning was proclaimed by President Clinton.

As horrific as this act was to bear for the victims and their loved ones, the national public response demonstrated the strength of our broad sense of community. It is that sense of community that permits us to move beyond the tragedy to positive actions.

Many GCSANJ members have memories of their own time in the military service. Whether from Korea, Vietnam, or Desert Storm, the collective memories of all of us, coupled with the recent and tragic events, must make this Memorial Day truly a day for remembrance.

Remembering alone, however, is not an adequate response to today's events. Memorializing can be like a narcotic lulling us into a sense of complacency. Today we are facing situations that require us all to be more vigilant. As a group, I know that GCSANJ will do its part not just to remember. It will fight back with generosity of spirit and actions because our industry attracts that kind of person. Evidence of this came the day after the news of the death of Robert Leslie. My phone rang many times requesting that *The Greenside* have an appropriate memorial story, while others sought to establish a fund for the surviving children. Words and deeds that even in tragedy solidify our organization. ♪



PRESIDENT'S MESSAGE



Paul Powondra

An extra hug

I won't soon forget the phone call. It was Wednesday, March 22, 7:45 a.m., and Shaun Barry was on the line. I enjoy talking with Shaun, as he's always so upbeat and positive (especially when discussing golf in Ireland), but after a couple of my wise cracks fell flat, I could sense that the purpose of the call was very serious. He asked me if I had heard about the incident the day before in the Montclair Post Office, which of course I had, as had the entire country. Did I know that Bob Leslie, the sales rep for Cleary's and a member of GCSANJ, had been one of the victims? I turned the name over in my mind several times until my thoughts went back to Expo last December where I had first met Bob, and then early February of this year when Bob had stopped by my office for a couple of hours, and we got to know one another a little better. Oh no . . .

The next two days were like a blur, calling people and getting the word out about the tragedy which had befallen the GCSANJ family. Several of those I contacted were very close to Bob and were absolutely devastated by the news, yet from the grim task of conveying such unfortunate tidings to so many people I felt privileged. Privileged to have all these people share with me their thoughts about what a great person Bob was, how he had contributed to GCSANJ and METGCSA as well as last year's Bert Jones event, and I deeply regretted not knowing Bob longer.

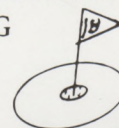
Most of the GCSANJ Board were able to attend the viewing on that Friday, and there the enormity of the tragedy really took hold upon meeting Bob's lovely wife, Kathy, bravely trying to cope with a senseless event which had torn her world and her children's world apart. Many of us were visibly moved, and we resolved that we needed to "help one of our own" and, thus, the GCSANJ Bob Leslie Fund was established. It really hit home how any one of us could have been in the wrong place at the wrong time, and how tenuous our stay on earth can be. "An extra hug," a close friend said as we discussed the world we live in. "Give your kids an extra hug once in a while. You never know." No, we don't.

CALENDAR

- June 19-25 USGA's Women's Amateur Public Links National Championship**, Hominy Hill G.C. Hosts: David Pease, general manager, and Ron Luepke, superintendent.
- July 21 July Monthly Meeting**, Springdale G.C. Host: Charles Dey. Contact Judy Policastro, (201) 379-1100.
- August Sept. 26 District Meetings Invitational**, Panther Valley G. and C.C. Host: Pat Campbell. Contact Judy Policastro, (201) 379-1100.
- October 3 Golf Course Superintendents Association of NJ Equipment Field Day**, location to be announced. Contact Judy Policastro, (201) 379-1100.
- Nov. 7 Annual Meeting**, Hollywood G.C. Host: Jan Kasyjanski. Contact Judy Policastro, (201) 379-1100.

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GCSANJ NEWS

NJ AND PHILLY MEET AT THE CAPE

Our first monthly meeting of the year turned out to be quite a success. It was a joint meeting with the Philadelphia association, and 48 of its members were able to attend. Not only did it give them and us a chance to meet new people and renew old acquaintances, but it also allowed us to listen to Gary Grigg, CGCS. Gary is President of the GCSAA, and he was our speaker for the meeting. His talk was excellent, and I am sure it opened quite a few eyes.

Khlar Holthouse and Wildwood G. & C.C. were our gracious hosts for Gary's speech and our delicious lunch. It was, however, Cape May National G.C. where the real action took place. Here, the Philly vs NJ competition took center stage. It was only for "bragging rights" but everybody played hard and enjoyed themselves. One group (John

Sequi, CGCS; Lou Amadio; Gary Grigg, and Steve Malikowski, CGCS) was so into the match that Gary almost missed his plane. (This would not have been a good idea because he was already here on his 31st wedding anniversary.) This match could have been over on the 14th hole, but John and Lou kept smiling and making putts. Gary was actually trying to find a cellular phone to see if there were any later flights when Steve was able to close out the match on the 16th hole. Maybe there will be a rematch next year.

In addition to the team event, we also had some wonderful individual scores. **Jim Woods** shot a 74 and edged **Tom Grimac** and **Jeff Riggs** by a shot. On the net side it took a match of cards, but **Pat Campbell** defeated **Jim Grow**. They both had 63. **Steve Chirip** (65) and **Bill**

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Hominy Hill to host Women's Amateur Public Links National Championship

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Park System as assistant superintendent at Hominy Hill in 1977. Pease is a 1975 Stockbridge School of Agriculture and 1977 University of Massachusetts graduate who holds a B.S. in Environmental Design and an Associates degree in turfgrass management. In 1978 he became the assistant at Howell Park Golf Course and served as superintendent at Howell from 1980 to 1982, when he stepped up to general manager of Monmouth County Courses and also took over as superintendent at Hominy Hill.

"The basic objective of our maintenance program is to provide manicured turf similar to what is expected at private courses," said Pease. The course receives about 55,000 rounds a season and is open from March 15 through mid-December, weather permitting. Hominy Hill is 7,100 yards long and features extended tees, large 9,000 to 10,000 square foot greens, about 150 sand bunkers, and very thin rough.

"The USGA wants the rough cut a little lower than usual," said Pease. "We usually maintain it at 2 1/2 to 3 inches, and they want it cut to 2 inches." ♣



GCSANJ NEWS

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Beverlin (67) will just have to work on those handicaps.

Brad Simpkins and **Craig Moore** were closest to the pins, and Craig also had the longest drive. J. Riggs won the only skin of the day, and T. Grimac won the shoot-out that was once again sponsored by Bob Mullock.

Thanks again to Mr. Mullock, Nigel, and everyone at Cape May National for allowing us to return to your piece of paradise.

NEW JERSEY SUPERINTENDENT RECEIVES PROFESSIONAL CERTIFICATION

Andrew E. Drevyanko, Jr., superintendent at Centerton Golf Club, has been designated a Certified Golf Course Superintendent (CGCS) by the Golf Course Superintendents Association of America (GCSAA).

Drevyanko has been superintendent of the Elmer, New Jersey, course since 1993. He lives at 521-C Garden Road, Pittsgrove Township.

GCSAA instituted the certification program in 1971 to recognize outstanding and progressive superintendents. More than 1,400 active GCSAA members currently hold CGCS status.

To become certified, a candidate must have five years' experience as a golf course superintendent, be employed in that capacity, and meet specific educational requirements of college credit or continuing education units. The candidate must then pass a rigorous six-hour examination covering knowledge of GCSAA and its certification program; the rules of golf; turfgrass management; pest management, safety and compliance; and financial and organizational management.

As part of the certification process, an on-site inspection of Drevyanko's golf course operation was conducted by two certified golf course superintendents: **Thomas Grimac**, CGCS, of Tavistock Country Club, Haddonfield, and **Steven Segui**, CGCS, of Three Little Bakers Country Club, Wilmington, DE.

WELCOME TO NEW MEMBERS

The Greenside welcomes the following new GCSANJ members. We invite you to call up and contribute news and stories.

Leonard Berg A Dist. 2
Canoe Brook CC
Summit

John J. Brahan, Jr. C Dist. 4
Philadelphia Turf Co.
Doylestown, PA

Ron Cusick, Sr. D Dist. 4
Indian Spring Driving Range
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Kevin J. Gunn C Dist. 4
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GCSANJ NEWS

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Bert Jones LIFE Dist. 2
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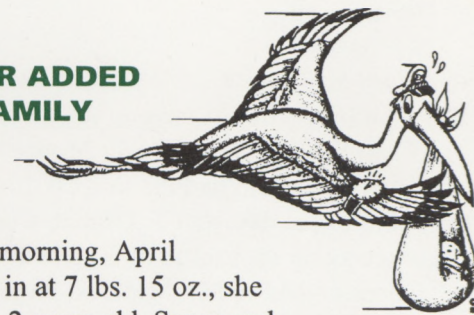
Jeffrey Lipies B-1 Dist. 2
Panther Valley G. & C.C.
Allamuchy

Owen J. Regan C Dist. 1
Tee and Green Sod Inc.
Exeter, RI

John Wiblishauser C Dist. 1
Lebanon Turf Products
Lebanon, PA

NEW MEMBER ADDED TO GCSANJ FAMILY

Emily Hope
Vogel was born at
1:00 a.m. on Easter morning, April
16, 1995. Weighing in at 7 lbs. 15 oz., she
has a brother, Noah, 2 years old. Susan and
Doug Vogel (a regular *Greenerside* contributor
from Packanack G.C.) are the proud parents. ♪



Get a \$50 value, FREE

GCSAA is preparing its *1995 Compensation and Benefits Survey*, and we encourage you to fill it out and return it as quickly as possible. The survey will be mailed in early summer to A and B members. As a participant, you'll receive a free copy of its compiled report, a \$50 value. All other members who do not participate may purchase the report for \$50, and non-members can buy it for \$260.

The *1995 Compensation and Benefits Report* will explore areas that will assist you in negotiating your compensation package with your employer and will be expanded to provide more data than its predecessor, *The 1993 Salary Report*. Improvements include:

- Data represented by chapters for geographic and economic comparisons.
- Easy-to-read format using salary ranges in \$10,000 increments.
- Charts and graphs.
- Detailed information on benefits.
- 15-minute completion time.
- 75+ pages of information.

In order to make the report useful, especially chapter information, we must have a larger than usual number of surveys returned. We encourage all A and B members to respond including superintendents in the \$90,000+ salary range. As always, participants' confidentiality and anonymity will be protected.

Help GCSAA help you to improve your compensation and benefits. Fill out the survey and get the report, free.

For more information, contact GCSAA Career Development at (800) 472-7878. ♪

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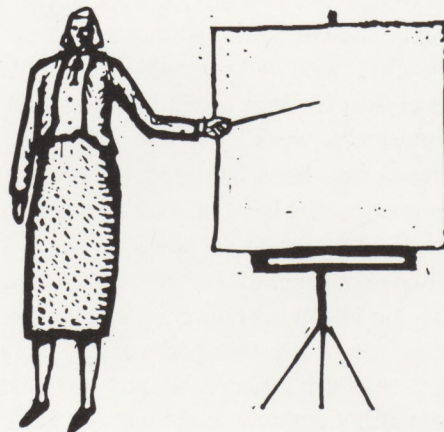
"A perfect ten"

Barbara B. Beall, who is married to Glens Falls (N.Y.) Country Club superintendent Chris Frielinghaus, submitted the following Top 10 list, in the spirit of David Letterman. Behold! The top 10 things she has observed being married to a superintendent:

10. He is the only person in the family who gets undressed outside the house at the end of his work day.
9. My husband has really strange tan lines.
8. He never listens to what I have to say when he gets home, but he listens to every word that Jenneta Jones says on The Weather Channel.
7. All his co-workers look like the cast from *Caddy Shack*.
6. When he wakes up at 3 a.m., it's not to go and see his girlfriend, but to make sure the irrigation system turned on.
5. All the post-it notepads in our house say 'Pro Lawn' on them.
4. My husband has a spot of black grease on every piece of clothing he owns.
3. We have the ugliest lawn in the neighborhood.

2. When he talks in his sleep or, for that matter, when he is awake, he states, "Ah, the smell of Dursban."
1. When he helps me vacuum, he always stripes our carpet in a checkerboard pattern.

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He will be missed

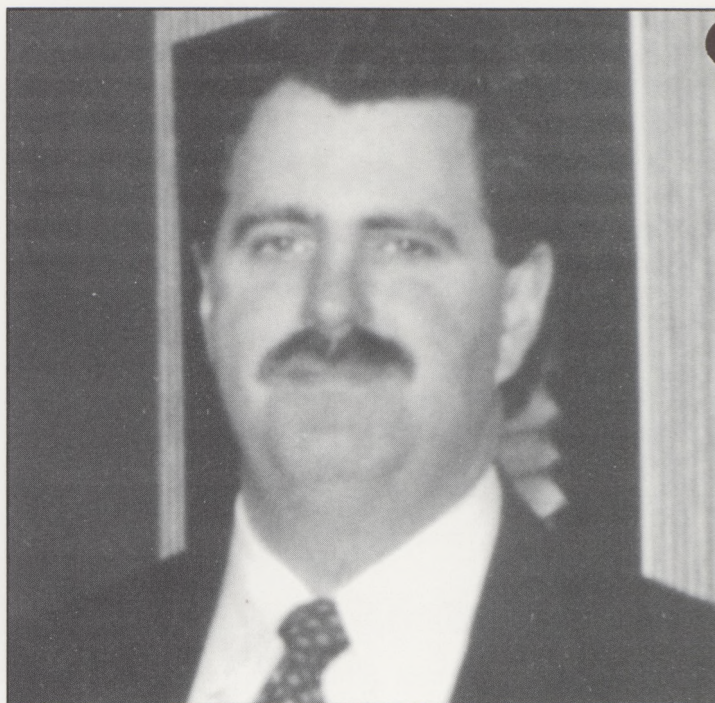
by Ilona Gray

It is with a heavy heart that we of the golf course community must bid farewell to a friend and co-worker who was so senselessly murdered in the Montclair, New Jersey, post office robbery this past March.

Bob Leslie had been a technical sales representative for the W.A. Cleary Chemical Corporation in Dayton, N.J., since 1990. He leaves his wife, Kathy, and two daughters, Jennifer, three, and Christine, 10 months.

Rick Fletcher, who had worked with him, has shared some of his closest feelings about Bob and who he was both inside and outside of work.

"Bob has always been involved with the turf industry through companies that have provided maintenance, equipment, or products designed for turf use. I have known Bob since 1982 when our paths first crossed at Chemlawn Services Inc. He began his courtship of his wife at that time, if my memory serves me. Our paths crossed again at W.A. Cleary Chemical Corp., where the past two years have reminded me of his genuine, good natured attitude toward




the world. Those who knew Bob will remember his competitive drive in sports and barbecuing, his love of golf and skiing, his deep devotion to his wife and girls, his loving and playful side as he was both horse and jumping bag for his daughter, Jennifer, and his narration of many bedtime stories. Bob was a husband, a father, a businessman, a friend, and I will miss his company in this world."

"He was the nicest guy you'd ever want to meet. He worked hard. He was salesman of the quarter last quarter," said Michael Bandy, Cleary's national sales manager.

Bob's sales territory spanned New Jersey, New York, and six New England states. He was also an active member of the Golf Course Superintendents Association of New Jersey.

In a March 28 letter to the members of the Golf Course Superintendents Association of New Jersey, GCSANJ President Paul Powondra and GCSANJ Foundation President Chris Carson said many members had asked them to find a suitable way to honor Bob's memory and help Kathy and the children. The Boards of both the Association and its new charitable foundation have set up an account with a goal of providing college educations for Jennifer and Christine. The family will also be able to draw funds for their other needs during this extremely difficult time.

Contribution checks may be made out to:
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Bert Jones, the superintendent's friend

by Ed Walsh, CGCS

On October 11, 1994, over 100 golf course superintendents and salesmen participated in an outing at Pascack Brook Golf Club to pay tribute to a true friend, Bert Jones. Bert is bedridden after a severe stroke but the memories of his personality and dedication to our profession are remembered by us all.

Bert grew up in Springfield, New Jersey. He went through the town's school system with another GCSAA legend, Bill Koonz. 1963 was a very difficult year for Bert and wife, Jerry. Bert lost his job with the town of Springfield and, more importantly, suffered through the loss of oldest son Kevin to cancer.

It was at that time that Bill Koonz, then employed at Doggett-Fison Turf Supply Company, offered Bert a job. Together they sold garden supplies during the day and installed residential irrigation systems in the evenings to make ends meet.

Soon after, Bill started his own irrigation business, and Bert went to work for the Andrew Wilson Company and

another old Springfield acquaintance, Drew Morrison. They sold turf supplies to estates and cemeteries and, at Bert's suggestion, started to visit golf courses, which ultimately became the largest part of their business.

In 1977 Bert left Andrew Wilson to become regional sales manager for the Johns Manville Company, Irrigation Division. Manville had recently purchased the Buckner Irrigation Company, and Bert was a natural fit with his personality and experience in irrigation sales. He enjoyed his stay with Manville but realized that the company's sales and product direction wasn't going to work in today's golf management environment.

In 1978, while still employed at Manville, he and Ken Kubik formed the Grass Roots Turf Supply Company. A year later Bert came on full time at Grass Roots and actively contributed to the company's success until his stroke in 1990.

Bert gave much of himself back to the industry he so loved. He was the president of the New Jersey Turfgrass Association and held that same position with the Springfield

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AQUARIUS

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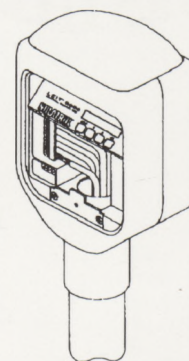
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MARKS THE SPOT

Malikowski wins . . . Malikowski wins . . .
Malikowski wins.

Now you must realize that there are about a thousand flights at the Championship with 25 to 35 players in each. They present some kind of prize to about 80% of the participants in each one of those flights. Which means that out of, let's say 30 players, 20 to 25 will get something. Now keep going and consider if you have



I called GCSAA and asked them to look at past records and let me know if there is anyone else who has participated in 15 tournaments with similar results. They got back to me after three or four weeks with the answer. NO . . . NO . . . NO . . . NO . . . NO . . . NO . . . NO. Seems that

Malikowski is in a class all by himself. Oh what a surprise (most of us have figured that out a long time ago)!

As Paul Harvey says, now let me tell you the rest of the story. Steve and I did play together in the Best Ball portion of the event and actually did pretty good. We started out just awful going two over (that's net) on the front nine but came on like gang busters on the back where we finished minus eight. You read that right, plus two on the front, minus 8 on the back. We finished birdie-birdie

on the last two holes and were tied for sixth place, just two shots off the winning score of 64. Could of, should of, would of, I guess.

Now Steve was feeling pretty good about his chances in the rest of the event because of our finish in the Best Ball. He was in pretty good shape after the first round too, just a few points (we play a Stableford scoring system) off the lead. Well, I guess he started to get a little nervous during the second round; his game went to _____. Seems they didn't list him on the score board the second day so as not to embarrass him.

Well, in another part of the championship our #1 Team from New Jersey (McNally, Remo, Antonaccio, yours truly) was playing well enough to capture third place in the Net Team Championship which gets us a plaque. Seems Wayne Remo was leaving the championship banquet and heard someone crying in the bushes outside the building. After close examination he realized it was Malikowski. Now Wayne thought something really bad had happened to Steve and was getting worried. After Wayne was told by Steve that his condition was due to his not winning a plaque for the 15th year in a row, Wayne gave him the plaque he won as a member of the team. He really thought this guy was going to do something drastic to himself.

Now just so you all know, Ilona Gray is going to print a separate copy of this *Greenerside* without this article and send that one to Steve. So if Steve comes up to you and tells you he finally won a plaque at the GCSAA Championship please congratulate him. He's a great guy but he's really close to losing it, and I don't know anyone who wants to be responsible for putting him over the edge. ♫



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Where are they now?

by Shaun Barry

In 1963 Tara Greens G.C. welcomed a recent turf school graduate into the position of golf course superintendent. His name was Dan H. (?) Quast. It became obvious to the staff that Danny really had learned something at school.

He immediately started building greens, bunkers, and tees. Playing conditions improved, and his skills became well known. He worked hard but he enjoyed the challenge.

Troy C.C. (Ohio) was impressed. He stayed there from 1965 through 1968. Springfield C.C. (Ohio) enjoyed the "Quast touch" for five years. This was followed by 16 wonderful years at Milwaukee C.C. Only a dream to host a U.S. Open caused him to take another position. He arrived at Medinah C.C. in 1989, and his Open was an outstanding success.

Medinah is where his heart is but he often thinks of his friends in New Jersey. Drop him a line or give him a call, and tell him that the first person he ever hired sent you. ♪

Bert Jones, the superintendent's friend

Continued from page 9

Jaycees.

I remember Bert as one of the few sales people who always took time to talk to the assistant superintendents during visits to their respective clubs back in the late 60s and early 70s. He had a genuine interest in helping people grow and mature in this business. I, and many others, owe Bert a great debt of thanks for any success we have achieved as professionals.

A special thanks must go out to the people who had the idea and organized the outing to honor Bert. Jim McNally, Jack Martin, Skip Cameron, Ken Kubik, Pete Pedrazzi, and Mike Leary, we thank you. We also want to thank Glenn Gallion and Pascack Brook G.C. for providing a tremendous day of golf and enjoyment.

We thank Jerry and sons Greg, Jim, and Tim for sharing the day with us. It was great to see you all. ♪

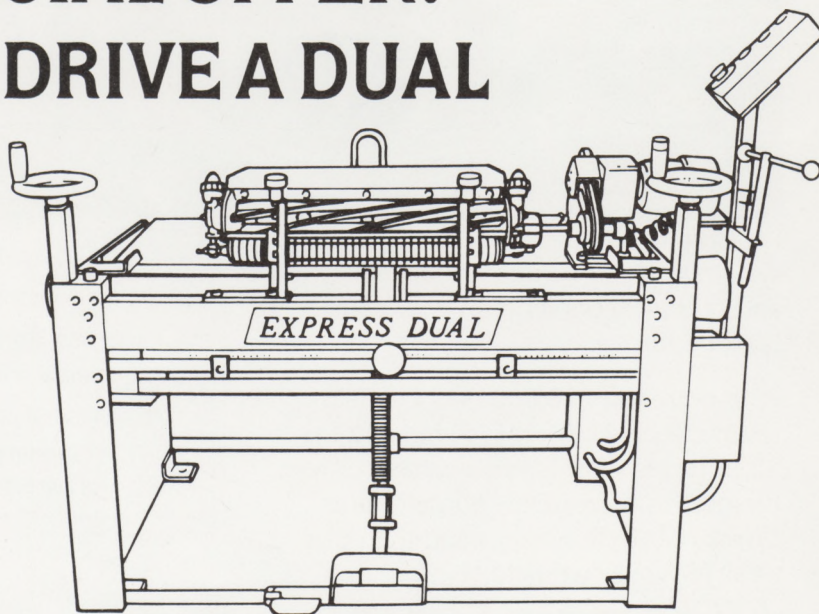
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Memorabilia

by Doug Vogel

Baseball cards, golf clubs, and autographs are just a few of the many items that people collect in what has become known as the Sports Memorabilia Craze. Collectors fall into two groups. The first group are in it as investors, clinging to each card or club as if they were gold bricks, squirreling them away and bragging of their "value." The second group is motivated by the nostalgic trip down memory lane they get when they gaze upon their prizes, which hang on office walls, gather dust on fireplace mantels, or get water stained on bathroom reading racks. Regardless of their reasons, no one in my mind tops the unique collection of my friend and neighbor, Donald Busher. Growing in his backyard is turf collected from some of the most famous sports venues on the East Coast.

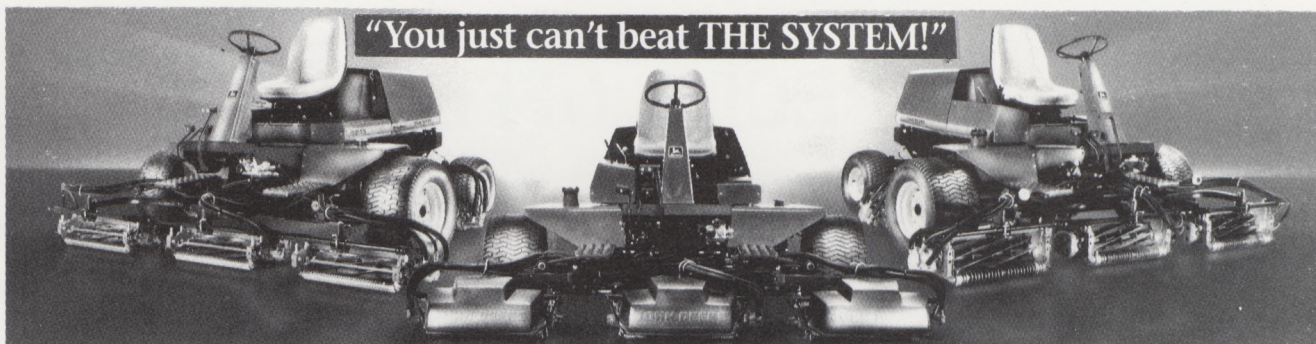
It started rather innocently with a piece of turf uprooted from Shea Stadium on that magical day in October when Cleon Jones clutched the final out of the 1969 World Series. As the fans stormed the field, Busher found himself next to

a crying old man feverishly digging and screaming, "This is where Ron Swoboda caught the ball, he landed right here! Take a piece of history, son, and plant it in your backyard." Don took a piece and the rest is history—literally.

...a Ken Krausz divot has little or no value because the supply is numerous, there is no demand...

Ever since that day, Busher has collected "historical" turf. His baseball turf plots most notably include a piece of centerfield from Yankee Stadium, a patch where Brooks Robinson stood while protecting third base at Memorial Stadium, and a weed infested square from the former Roosevelt Stadium in Jersey City. "Ricky Henderson played his minor league ball there the last year the stadium was used by professionals," Don explained.

Continued on page 13



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Host selection in insecticidal nematodes

by Randy Gaugler, Ecogen, Inc.

A key issue concerning the use of insect-killing nematodes as biological insecticides against soil insect pests is the question of whether these parasites will impact non-target organisms. Despite an exemption from insecticide regulations in virtually every country, insecticidal nematodes are often regarded as indiscriminate generalist predators. It is important that we are able to make predictions regarding nematode host specificity by understanding how nematodes select hosts.

The four sequential steps in host selection are (1) host habitat-finding, (2) host-finding, (3) host acceptance, and (4) host suitability. The first step is the most significant because it eliminates the most species from any potential host list, yet it is the least studied for insect nematodes. Insecticidal nematode species are, however, known to respond with directed orientation toward plant roots, the micro-habitat for many soil insects.

Most insecticidal nematode species fall into one of two host-finding strategies. *Cruisers* tend to be highly mobile, search within the soil, and respond to host volatiles.

Ambushers tend to be sedentary, are found near the soil surface, respond poorly to host volatiles, and attach to passing insects. Thus, ambushers appear best adapted to parasitize mobile hosts adapted to the soil surface, where cruisers attack sedentary insects within the soil.

Once host contact is made, recognition must occur (host acceptance). The conventional wisdom is that insecticidal nematodes are indiscriminate, yet our data demonstrates that these parasites reject many potential hosts. Insect morphological barriers to penetration can resist attackers, and chemical defenses in the insect gut can inactivate them.

Once found and recognized, an attack may not succeed

if a potential host responds with an effective immune response (host suitability). In Japanese beetles, some nematode species are not recognized by the immune system, others are initially entrapped but subsequently escape, and some are invariably heavily encapsulated. Encapsulation, however, does not always prevent host death.

Are insecticidal nematodes opportunists?

Yes. Are they biocides?

No. Despite a broad experimental host range, the twin constraints of host habitat-finding and host-finding come into play in the field, imposing ecological and behavioral barriers that greatly augment the morphological and physiological defenses that operate in the laboratory, thereby restricting host range. This is why nearly all predators and parasites have broader host ranges in the laboratory than in the field: host habitat-finding and host-finding are bypassed. Thus, many insect species are physiologically but not ecologically susceptible to nematode parasitism.

The above was excerpted from the Proceedings of the Fourth Annual Rutgers Turfgrass Symposium, January 5-6, 1995, as sponsored by the Center for Interdisciplinary Studies in Turfgrass Science.



Memorabilia

Continued from page 12

The golf section at the Busher household is most impressive, and his technique in acquiring his pieces shows some thought with respect to the golf course. "I never go to a tournament without small bags of topdressing to fill any of the divots I may take. Most of my pieces come from the driving range anyway." Don's collection includes ten

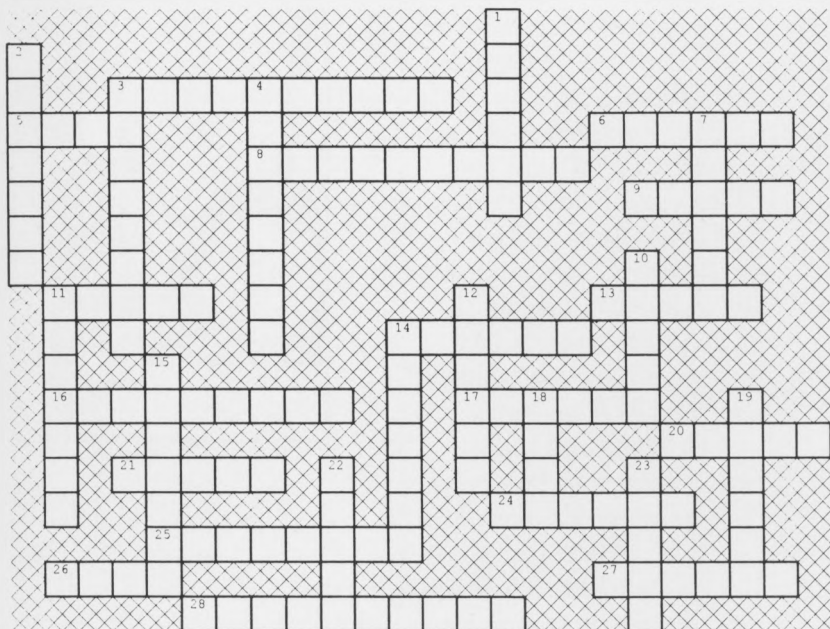
Arnold Palmer range divots and a monster Lawrence Taylor chunk from the Upper Montclair Country Club, one each from Nicklaus, Faldo, Zoeller, and Watson from the 1993 U.S. Open at Baltusrol, and his historic divot—John Daly's 1 iron divot from Baltusrol's 17th. "I stood behind the ropes

and kept my eye on that sucker for two hours until the coast was clear. I casually walked out, picked it up, put down the topdressing and beat feet," a smiling Busher reminisced. "It was very small and the heat had severely dried it out." The proud collector now boasts that "it is almost a square foot."

As with all collectibles, value is determined by a combination of supply, demand, and condition. For instance, a Ken Krausz divot has little or no value because the supply is numerous, there is no demand, and, if there was, the condition can be mighty ugly. But a Ken Kubik signed limited edition white Dunlop tennis ball? Bring your checkbooks. ♣

Movers and shakers...members giving something back to GCSANJ

by Mike Oleykowski



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13. treasurer
14. commercial rep to board
16. past president of gcsaa from nj
17. gcsanj rep to alliance for environmental concerns
20. x-marks his spot
21. emeritus
24. past president
25. Red, NFL Cadillac Classic
26. editor
27. 25 year watchdog
28. alias as another ski

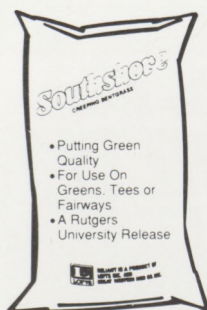
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- Dr. Henry Indyk, professor emeritus of Cook College, Rutgers University, received the Harry Gill Award from the Sports Turf Managers Association at their annual meeting held in Bradenton, Florida, in February. The Harry Gill Award is the most prestigious award bestowed by the STMA.
- United States golf course facilities impact the economy at an estimated \$18 billion each year, with more than 24.5 million people spending 2.4 billion hours outside, playing one of the 14,500+ golf courses in the country.

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- In a study at Ohio State University, researchers found that granular-formulated pendimethalin provided better smooth crabgrass control than wettable powder pendimethalin when averaged over all rates, irrigation events, and years of the study. All herbicide-treated plots contained fewer smooth crabgrass plants than untreated check plots. Granular pendimethalin was not affected by a delay in post-treatment irrigation. In

Continued on page 25

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Shrubs add more than beauty to a golf course

by Davey Tree Expert Company

With their boughs bursting with colorful blooms, it's easy to see how shrubs can help you create an ideal spring setting for golfers to enjoy. However, shrubs offer golf course landscapes a lot more than beauty. You can use shrubs year-round to create a better organized, more "people-friendly" golf course design.

Shrubs are easy to grow. Shrubs usually only require good planting to thrive and produce a wealth of bloom. Shrub upkeep is minuscule when compared to the amount of time that goes into golf course turf and flower care.

And there's a shrub available to meet your different needs. In fact, you will probably have several shrubs to choose from. Research the plants you wish to use before planting them, says Marianne Waindle, a horticulturist with The Davey Tree Expert Company. "Shrubs come in a wide variety of heights, shapes, foliage and flower colors, flower

forms, and fruit shapes and colors," Waindle says. "There is at least one shrub in bloom practically every month of the year."

So, before you purchase shrubs for your golf course, decide what function you want them to serve. Shrubs can:

Direct traffic

Strategic planting can turn a shrub into a traffic guide. For example, shrubs can help direct the play of the course by further defining the boundary between the fairway and the rough. They can also be planted around the club house and field house to guide pedestrian traffic.

Even the most experienced golfer sometimes wanders into a potentially dangerous spot. Carefully planned shrub locations can help keep people out of the line of play.

Shrubs can also direct traffic on cart paths. Cart paths can become difficult to drive on during storms and as the

Continued on page 19



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Shrubs add more than beauty

Continued from page 18

ight begins to fade. Unpaved cart paths can be difficult to follow, as well. Because most shrubs are eye-level, they are easier for drivers to see than the edge of the cart path. "Most cart drivers will pay special attention so they don't wind up in the shrubbery," Waindle says. "By helping drivers stick to paths, shrubs help protect the turf from cart damage."

Tired of repairing the dirt paths created by pedestrian "short cuts?" Use shrubs to direct traffic around nodes—areas where sidewalks, pathways, etc. meet and cross. Use a design with pedestrian traffic in mind, as well as one that provides aesthetic benefits.

Fill A Void

As some trees mature, the lower canopy thins. "Instead of being surrounded by a beautiful wall of trees, golfers view a sparse area," Waindle says. "Shrubs planted among these trees will help to break up the monotonous view by adding touches of color and beauty."

Act As Windbreaks

In addition to creating more scenic surroundings, shrubs act as windbreaks. Although a gentle breeze can be soothing, persistent strong winds can annoy golfers. Strategically planted shrubs help block bothersome winds that whip across fairways.

Provide Visual Interest in Winter

For some areas of the country, winter landscapes can be dreary and depressing. Many shrubs have attractive berries that create interest in winter. Also, when most plants have lost their leaves, evergreen shrubs can add a splash of color.

Shelter Small Birds

Small migratory birds—not geese—can find shelter in shrubs during their journey. This helps increase the chance that the birds will return to the course later in the spring.

The opportunity to observe wildlife is one factor that attracts many people to the game. The small songbirds create a peaceful atmosphere for golfers to enjoy.

Create Outdoor Rooms

How do you create privacy for intimate, outdoor gatherings without erecting an ugly, permanent barrier? With shrubs, of course. Shrubs can create separate spaces and be used to design beautiful outdoor rooms.

Serve As Living Screens

Not only do shrubs add beauty to the course, but they can hide unsightly objects from view. Plant them around parking lots to block the view of automobiles and around holes to screen noise and other distractions.

In order to meet your goals, proper shrub selection is key. Mistakes can be costly and time-consuming. For example, don't plant a shrub that needs a lot of sunlight beneath other trees' canopies. A little research now will save you grief in the future. Contact a professional landscape architect or visit your local library before you buy any shrubs. ▶

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Developing a monitoring calendar

by Robert G. Way
IPM Program Associate

It is important to set a calendar when attempting to monitor a site. This can help focus efforts on where and when problems are most likely to develop. It helps to avoid wasted time spent on the site deciding where to start and what to look for. It can mean the difference between success and failure in an IPM program.

Decide in advance which plants are key plants (e.g., most problem prone). Then, based on what pests have been a problem in the past, plan to look for those this season, finding them early before their populations build. If the site is new and there are no records of past pest problems, use the local key pest list to develop a list of potential problems.

Next, determine when those problems will occur, based on site history, or based on growing degree day information. Be sure to consider the life cycle of the insect or disease pests. For example, records may indicate a problem has been seen in August each year, but knowledge of the life cycle shows the pest first appears in June; the first generation can thus be managed before damage occurs.

The calendar can be customized to meet your needs, such as adding a control section or list of plants attacked. An individual calendar can be developed for each site or one can be developed for the general area and then modified for each site. The purpose for this preparation is to increase the monitors' effectiveness once they get on the site. It may appear to be a monumental task to gather all this information, but the result is well worth the effort, and it only has to be done once.

Growing Degree Days (GDD) can be very helpful in setting up a calendar. There are several sources of GDD information relative to insect development. The Cornell "Pest Management Recommendations—Trees and Shrubs," contains GDD information for many insect pests. (This

publication may be ordered from Cornell Cooperative Extension by calling 607-255-2080.) The Southeast Pennsylvania IPM Research Group has had an ongoing research project, gathering GDD information for the last four years. They put out a weekly report which anyone can receive by

Growing Degree Days (GDD) can be very helpful in setting up a calendar. There are several sources of GDD information relative to insect development.

subscription. For more information or to subscribe, contact Dave Suchanic, Penn State County Agent, Penn State University Cooperative Extension, Southeast Pennsylvania IPM Research Group, P.O. Box 20, Creamery, PA 19430; (610) 489-4315, Fax (610) 746-1973.

Another book which contains GDD information is "Coincide" by Donald Orton (Plantsmen's Publications, Flossmoore, Illinois). This would be available through any good book store offering a large selection of horticulture books. There is also a one-page handout prepared by this program which lists many insect pests and their GDD values. It is available by contacting the Rutgers Cooperative Extension Landscape IPM Program at (908) 349-1246.

Current information for accumulated GDDs can be found in the IPM newsletter or in a weekly mailing put out by the New Jersey Department of Agriculture. This publication, known as the "Green Sheet," includes GDD information for areas all over the state. (For more information, call Mike Gerling at 609-292-6385.)

It is also possible to calculate the GDDs as the season

Continued on page 21

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Lorraine M. Mizak
Aquatic Biologist

Developing a monitoring calendar

Continued from page 20

progresses. This can be time consuming but would be more accurate because it is based on information collected locally. A min-max thermometer is needed. It must be looked at daily. A more in-depth discussion of how to calculate GDDs appears in the March 15, 1994, issue of *Landscape IPM Notes*. Call (908) 349-1246 for a copy.

The GDD information in the "Sample Scouting Fore-

cast" (below) is provided to allow a review of what has happened the last two years to help in judging what might happen this year. Since temperatures across the state can vary a great deal in any given month, three readings are given to represent North, Central, and South Jersey. The pests listed are only those which will appear for the first time this season or whose second or third generations, etc.,

Continued on page 23

Sample Scouting Forecast

GDD Summary for the last two years (expressed as a range covering a whole month)

North (Newton)	Central (New Brunswick)	South (Hammonton)
'93 9-68 GDD	8-77 GDD	18-136 GDD
'94 0-50 GDD	19-85 GDD	58-182 GDD

Insects:

Ornamentals

GDD	Name	Stage of Development
7-120	Elm bark beetle	emerging adults
25	White pine aphid	adult
35	Eastern tent caterpillar	larvae
50	Spruce spider mite	eggs/immatures
50	Pine sawflies (European)	larvae
86	Holly leaf miner	larval feeding inside the leaf
121-448	Nantucket pine tip moth	adults
150	Hemlock woolly adelgid	eggs and 10% hatch
200-299	Lilac borer	adult emergence

Disease:

Ornamentals

Name	Plants Affected	Conditions
Anthraxnose	shade trees	new foliage & moisture
Cedar apple rust	junipers, apples crab apples	new foliage & moisture
Leaf spot diseases	many plants	new foliage & moisture
<i>Ovulinia</i> petal blight	azaleas, rhododendron	flowers open & moisture
Rust	apples, crab apples	new foliage & moisture
Scab	apples, crab apples	new foliage & moisture

Turf

Red thread	low fertility turf	low nitrogen
Leaf spot	low fertility turf	low nitrogen

Organic nutrient sources

By Deborah Smith-Fiola
Agricultural Agent, Ocean County

With increased interest in "organic" fertilizers, I thought we'd take a look at the pros and cons of their commercial use. Natural organic nitrogens contain carbon, but are obtained from biological sources such as plant and animal materials. Soil micro-organisms break down this material into a form that can be utilized by plants. Natural organics supply other essential plant nutrients besides nitrogen and add organic matter to improve the soil structure. The slow release rate reduces potential burn problems and leaching problems, although the release rate varies for different organic nitrogen carriers. Additionally, once soil temperatures are below 55°F, the release rate slows since soil microbes are not very active. (Be aware of the distinction between chemical organic nitrogen and natural organic nitrogen. Chemical organic nitrogen, such as urea, can be defined as organic because nitrogen is chemically combined with carbon. Urea can be found in manures [naturally occurring] or made through a synthetic industrial process.)

On the flip side, natural organic fertilizers require higher application rates, since the amount of nitrogen in individual products tends to be lower than synthetic products. Products thus can be over-applied and contribute to water pollution. They can be bulky to store and transport, and may be more expensive per unit of nitrogen than chemical fertilizer. They may have an odor as well.

When selecting a natural organic fertilizer, examine the percentage of nutrients and calculate the application rate, keeping in mind the nitrogen release rate to match the needs of the plant.

Natural mineral fertilizers, developed from parent materials rich in P or K, are also slow release "organic" products. They can be applied at high rates with minimal negative effects because of their low solubility and low salt index. However, they are also bulky to store and transport.

ROCK PHOSPHATE is the raw material treated with acid to make water soluble phosphate fertilizers. The P_2O_5 content ranges from 28-38%, but is most readily available to plants at a pH below 5.0. It can be applied to lawns and

Natural organic nitrogens contain carbon, but are obtained from biological sources such as plant and animal materials.

gardens any time of year without fear of burn at the rate of 25-50 lbs/1000 ft.².

BONEMEAL is a byproduct of the slaughterhouse industry, consisting of steamed, ground bones. It contains 15% P_2O_5 as well as 2% N, with the P more quickly available than from rock phosphate.

WOOD ASH, from burned wood, contains an average 6% K_2P , 2% P_2O_5 , and 23% calcium, as well as trace amount of Mg, Mn, Zn, Fe, B, and Cu. The neutralizing value is 50% that of limestone, and should be used only on acid soils to increase soil pH. Use a rate of 25 to 50 lbs/1000 ft.².

GRANITE DUST contains 3-5% K_2O , originally mined from rock granite. The K release rate is slow and dependent on weathering. Use 100 lbs/1000 ft.². Potassium sulfate, containing 50% K_2O , has a rapid release rate and should be used according to soil test results.

GREENSAND is a bluish green glauconite material, mined from deposits laid down in what once was ocean in Sewell, NJ. It has a high cation-exchange capacity (nutrient storage capacity), comparable to clay. It is used to improve soil physical properties and as a slow release source of potassium (5-8% K_2O). It will not burn plants and can be

Continued on page 24

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Developing a monitoring calendar

Continued from page 21
are appearing.

The information from the "Sample Scouting Forecast" box can be turned into a monitoring calendar. For example:
One site located in central New Jersey has mugo pines,

Sample Monitoring Calendar

Site: 6 Wayside Drive

Plant	Pest	State	GDD
crab apple	tent caterpillar	larvae	35
mugo pine	pine sawfly	larvae	50
azaleas	ovulinia petal blight	disease	

lilacs, crab apples, azaleas, hemlocks, rhododendron, forsythia, and green ash. Pine sawflies, tent caterpillar, hemlock woolly adelgid, lilac borer, and *Ovulinia* petal blight all have been a problem in the past. Since the site is in central Jersey, and looking at the information in the

forecasting box, it can be concluded the growing degree day accumulation will probably not go much above 100 for the whole month. This means the mugo pines should be monitored for pine sawflies, crabapples for tent caterpillars, and azaleas for ovulinia petal blight. It is too early to monitor for hemlock woolly adelgid and lilac borer. Represent this information in a chart form, (See the sample calendar to the left).

Become familiar with what the pest looks like, what the damage looks like, and how to control the problem. Then, when monitoring, the most problem-prone plants are known, identification of pests should be relatively easy, and the choice of control tactics can be made available, ready to be employed then and there. ♪



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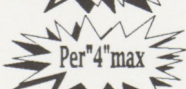
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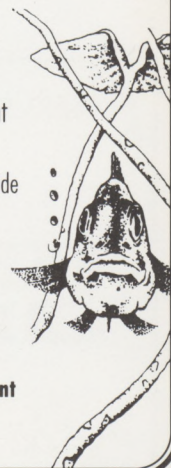
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Planning for retirement today

by James K. Woods, a registered representative with New England Securities. Mr. Woods specializes in individual investment and insurance planning.

Will Social Security alone enable you to live comfortably during retirement? According to a recent U.S. government report, the answer is an emphatic "no" for most retirees. The report explains that Social Security was never intended to provide 100% of retirement income. Rather, it is designed to provide a base or "floor" for retirement income, to which income from private pensions, personal savings, and investments must be added.

How the numbers don't add up

Most retirement plan experts agree that you will need between 70% and 75% of your working income to maintain your current lifestyle during retirement. However, the percentage of your pay that is replaced by Social Security is likely to fall far short of the 70%-75% replacement rate you will require.

Recent government statistics indicate that Social Security typically replaces only about 40% of pre-retirement income for the average American worker. The remainder will have to come from:

- Employer-sponsored retirement plans such as pensions, profit sharing, 401(k), and employee stock ownership programs.
- Personal savings, including individual retirement accounts (IRAs), and personal investment accounts.

Employer-sponsored retirement plans

For about half of the American workforce, much of the money that is needed to replace 60% of pre-retirement income not typically covered by Social Security benefits at

retirement will come from company-sponsored retirement plans. These include Defined Benefit Plans and Defined Contribution Plans.

Whether investments are made for the employee by the employer or by the employee for themselves, it is becoming more and more important that today's workforce start saving earlier to secure their later years. ➤



Organic nutrient sources

Continued from page 22

applied at the rate of 100-200 lbs/1000 ft.².

Use your judgment when using natural organic fertilizers. Also remember to test the soil before applying any of these products to first determine nutrient needs.

(Source: Heckman and Kluchinski, "Nutrient sources for growing plants by the Organic Method", RCE bulletin FS 675) ➤

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GCSAA adds two to managerial staff

The Golf Course Superintendents Association of America (GCSAA) has announced the hiring of two key management leaders, according to the association's Chief Executive Officer Stephen F. Mona, CAE.

Deena Amont has been hired as director of education and Cynthia Kelly has been hired as government relations manager. Both Amont and Kelly began working at GCSAA headquarters in mid-May.

Amont comes to GCSAA from Cook College, Rutgers-The State University of New Jersey. She served as assistant director of its continuing education program, directing the two-year Rutgers Professional Golf Turf Management School. She has a bachelor of science degree from Cook College.

Amont's duties will be to redesign, promote, and administer GCSAA's continuing education program that will include teleconferencing, seminars, conference workshops, self-guided instruction, video and booklet development, and information technology.

Kelly comes to GCSAA from the American Association of Blood Banks in Alexandria, VA, where she served the

past six years as staff counsel and director, government affairs. She has her doctor of jurisprudence from George Washington University National Law Center, Washington, DC, and bachelor's degrees in government and politics, and economics from the University of Maryland.

Kelly's GCSAA responsibilities will be to keep association members apprised of environmental issues, and government regulations and activities that have an impact on the golf course industry. Her duties will include responding to member inquiries, monitoring governmental actions, writing and overseeing briefings and newsletter material, and attending relevant meetings and conferences. ♪

Did you know that...

Continued from page 16

contrast, wettable powder pendimethalin efficacy was reduced if irrigation was applied later than the day of treatment.

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Back Nine

COOK COLLEGE EXECUTIVE DEAN RESIGNS

Daryl B. Lund, Exective Dean has announced his resignation effective in August to accept a position at Cornell's state College of Agriculture and Life Sciences in New York. Dean Lund, who comes from Wisconsin, played a large role in analyzing New Jersey's farming industry, chairing a committee that issued a long and detailed report this past winter. He was a progressive and popular dean, who was also a strong supporter of the Center for Interdisciplinary Studies in Turfgrass Science (CISTS).

He was hired as the associate director of the state's agricultural experiment station and chairman of the food science department in 1988. He became executive dean at Cook College, one of the most powerful posts at the university, in 1991.

CONGRATULATIONS, BRIAN

Brian M. Remo, who graduated from Delaware Valley College with a BS in agronomy on May 20, 1995, has accepted the position of assistant golf course superintendent at the Lake Mohawk G.C. under Superintendent Eric Carlson. Brian's father is the superintendent of the Rock Spring Club in West Orange, and his grandfather, James P. Remo, was the superintendent of the North Jersey Country Club until his death in 1983.

Congratulations, Brian. Your family is proud of you, especially your father.

DEER SEASON

Not counting road kill, New Jersey hunters claimed a harvest of 43,569 deer. This is up by over 1500 from 1993 report. The total harvest for 1994-1995 stands at 51,442 according to Sue Predl, Senior Wildlife Biologist with New Jersey Fish and Game.

PLAYING CHICKEN

Geese and chickens are promising biocontrol agents for intercropped apple orchards, eating everything from the Japanese Beetle to weeds. Chickens consumed the tomato hornworm, adults and larvae of the Colorado potato beetle, ground beetles, rove beetles, ants, grasses, and birdsfoot trefoil. Geese will eat weeds such as lambsquarters, grasses,

dandelion, plantain, pigweed, ragweed, Canada thistle, and curly dock. Thus, geese are herbivores, while chickens eat both arthropods and plant material. (*Any Greenside reader wanting to evaluate chickens as IPM tools on a golf course should contact Ilona Gray. The Greenside would love to have a photo of it.*)

(Source: IPM Practitioner, September 1994)

ROOT DISEASE PROBLEMS?

Do the turf areas you maintain continually have root disease problems? If so, consider lowering the pH to around 6.0 (even as low as 5.5). Research at Rutgers shows that Kentucky bluegrass stands maintained at these pH levels showed significant reduction in Summer Patch symptoms even when infected. Fertilizing with acidifying fertilizers (ammonium sources, SCU, etc.) and avoiding nitrate fertilizers can help lower the pH and reduce disease.

NEW PEST ALERT

The Asian Gypsy Moth, which can feed on conifers as well as deciduous trees and can hybridize with our common (European) gypsy moth, appears to have made inroads in the Northeast. An introduction into North Carolina has been apparently controlled, but the Asian variety has now been confirmed on Long Island as well as in Northern New York (along the St. Lawrence River).

(Source: Amer. Nurs. 1-1-95)

FORBES FYI

According to an article in *Forbes FYI*, April 29th was "World No Golf Day." (Or did you miss it?). The event, or rather nonevent, was proposed by a Japanese organization called the "Global Anti-Golf Movement" or GAG'M (pron. "GAG-em"). *Forbes* cites Paul Harvey as a "cornpone radio commentator and newspaper columnist" as a potential ally to GAG'M and the 50 million golfers around the world who strongly disagree. GAG'M apparently wants to stop golf course construction, especially Japanese sponsored construction, around the world.

IPM SOFTWARE AVAILABLE

Interested in IPM software for your business computer? Purdue Extension Services is offering monitoring software which compiles a plant inventory while recording all insect and disease information throughout the growing season. It can also be customized to include pesticide records and inventories, treatment records, report and graph evaluation, labor use, and more. The cost is \$100; make checks payable to Purdue Research Foundation and mail order to Entomology Extension Office, Purdue University, 1158 Entomology Hall, West Lafayette, IN 47907-1158. ♪

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