

THE GREENERSIDE

November - December 1991 • Volume 14 Number 6

Research projects key to understanding

Most have seen the report, "Toxic Fairways: Risking Groundwater Contamination from Pesticides on Long Island Golf Courses", made by New York Attorney General Abrams. Steve Cadenelli, president of the Golf Course Superintendents Association of America, rebutted this in every magazine and newspaper he could get into. If you have not yet read his rebuttal, contact GCSAA headquarters. Steve concluded that the report was "unsupported by fact, inaccurate and misleading."

But, in the final analysis, it's up to the individual golf course superintendent to get the facts and stand up locally to address these issues with the concerned public and golf players. Many of the articles that have appeared in this year's "Greenside" will help you do this.

The following is an excerpt from an article by Dr. Tom Watschke, which discusses research aimed at minimizing the use of pesticides and insuring that what we do use is utilized in an appropriate manner.

Turfgrass researchers at land grant universities in the Northeastern United States have long recognized the need to investigate ways to reduce pesticide use through cultural and biological pest management techniques.

The majority of turfgrass in the Northeast is grown in densely populated areas where the need for safe and effective management is critical. In recent years, public opposition to the use of turfgrass pesticides has increased greatly, particularly in the urban setting, because of the perceived view that pesticides used on lawns contaminate surface and ground water, creating both human and wildlife health hazards.

REDUCED RELIANCE ON PESTICIDES

In 1980, the Northeast Regional Research Committee, which is comprised of Agricultural Experiment Station scientists from throughout the Northeast, defined a set of research objectives to reduce reliance on pesticides used in turfgrass management. Numerous studies and years of research were devoted to the following objectives:

- to collect and evaluate grasses with improved disease and insect resistance,
- to study the role of endophytic fungi on the insect resistance of turfgrasses,
- to evaluate cultural practices and biological agents that reduce insect and disease injury, and weed encroachment in turfgrasses, and
- to evaluate reduced rates of pesticides and new compounds that would result in an overall reduction in pesticide use on turfgrasses.

Many of these studies were built on information

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THE GREENERSIDE

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EDITORIAL



Come on along! Come on along!

It's not Alexander's Ragtime Band. But it will be just as exciting. I'm talking about the 1992 GCSAA 63rd International Golf Course Conference & Show to be held in New Orleans at the Convention Center, February 10-17.

Some visitors to New Orleans think the highlights of the city are its great restaurants, jazz clubs, horse drawn cabs, the street car named "Desire", paddle-wheel boat rides, the "Court of the Seven Sisters", the Hotel Montelione, Rue Royale shops, War of 1812 sites, its seven flag history, Mississippi mud pies and cast iron balconies. Forget them all. This GCSAA program is so filled with excitement that these typical tourist attractions just can't compete.

Here is a brief on just two of the many major programs that will be offered. The first is an all-day seminar on effective wildlife management. We're not talking about exterminating moles. We're talking about a joint project with the New York Audubon Society called "Wildlife Management and Habitat Conservation".

The second major program is a dynamite session which will feature three speakers. Jay Feldman, the leader of a national anti-pesticide group, the National Coalition Against the Misuse of Pesticides, will outline his group's concerns about pesticides. John Stossel, ABC-TV's "20/20" Emmy Award-winning environmental news correspondent, will address how the media

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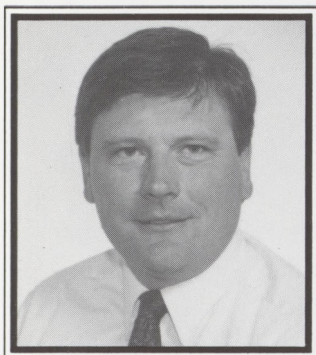
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PRESIDENT'S MESSAGE



"Tis the Season"

by David Pease
President, GCSANJ

I'm late with my copy. I'm late, I'm late, I'm late. As part of my journalistic duties as President, words of wisdom are composed bimonthly. In

addition to being late, I compounded the problem by fibbing to our editor. Telling her that I had completed the message, but forgotten to send it in. Yah, right . . . Ilona was probably thinking to herself . . . "I was born at night, but not last night . . ." So, with haste, I titled my copy "Tis the Season". The title came to me quickly, due to the fact the holiday season was upon us. (IT WAS THE ONLY THING THAT CAME QUICKLY.) It is strange, when the growing season draws to a close, you would think there would be plenty of time to take care of those extra responsibilities. Little did I know that I would be infected with the dreaded virus . . . Writer's BLOCK. This infection was probably brought on by a combination of self-inflicted doses of guilt, probably from fibbing to our Editor, coupled with the pressure of coming up with a clever message with merit, meaning and importance.

The following is what popped up on my monitor . . .

As golf course superintendents, our lives are geometrically surrounded on four sides. Ahh . . . The Seasons: spring, summer, fall and winter. (block) We are directly in touch with the environmental conditions in which we live. Not only are we aware of the day-to-day climatic conditions through the likes of T.V. meteorologists, but we actually physically live the seasons. (serious block occurring) We are embodied with moist, damp, hot, cold, wet, dry, bud dry. Oh boy . . . (total blockage) I GIVE #%!*" UP!!!

The paranoia set in with no mercy. Two days have past since I told the Editor that the President's Message was in the mail.

I could not take it anymore. So I decided to come clean. I figured "What better way to cure my writer's block than to confess my sin?". To my surprise the pressure of cramming my brain with extra curricula duties would be a perfect topic for this "Greenerside" issue.

With all the responsibilities we have as golf course superintendents, time is our most precious resource. Dedi-

cation to job, family, church and our personal needs become a difficult task to schedule.

That is why my hat is off to those gentlemen who serve on the GCSANJ Executive Board. The time and sacrifice that these individuals afford to the Association is commendable. I am using this President's Message to thank my Board for a most successful 1991 term, and look forward to serving with them in 1992.

THANK YOU, BOARD!

Calendar

- | | |
|--|--|
| December 2-4 | NJ Turfgrass "Expo '91" - Garden State Exhibit and Convention Center, Somerset, NJ. Contact: Office of Continuing Professional Education, Cook College, (908) 932-9271. |
| December 5 | South Jersey Landscape Conference - Clayton, NJ. Contact: Jerome Frecon, (609) 863-0110. |
| December 13
December 18 | Pesticide Safety - Mays Landing, NJ
Pesticide Safety - New Brunswick, NJ.
Contact: Office of Continuing Education Professional Education, Cook College, (908) 932-9271. |
| December 16 | Scouting, Sampling & Monitoring Golf Course Pests - Portland, Maine. Contact: GCSAA, (800) 472-7878. |
| January 2-20 | Professional Turfgrass and Landscape Management with Selected Topics in Commercial, Residential and Utility Turfgrass - New Brunswick, NJ.
Contact: Office of Continuing Professional Education, Cook College, (908) 932-9271. |
| January 6-March 13 | Rutgers Professional Golf Turf Management School - New Brunswick, NJ. Contact: Office of Continuing Professional Education, Cook College, (908) 932-9271. |
| January 7 - 9 | Introduction to Golf Course Turfgrass Management - New Brunswick, NJ.
Contact: Office of Continuing Professional Education, Cook College, (908) 932-9271. |
| January 7-10 | Eastern PA Turf Conference & Trade Show - Valley Forge Convention Center, King of Prussia, PA. Contact: PA Turfgrass Council, (814) 863-3475. |
| January 13-14 | Environmental Considerations in Golf Course Management - Cromwell, CT.
Contact: GCSAA, (800) 472-7878. |

Pesticides must be used appropriately

(Continued from page 1)

gained in earlier investigations and are continuing today. Some important strides toward accomplishing these objectives already have been made through this initial research.

Participating universities have amassed valuable information on species and cultivar performance. Cultivars with improved disease and insect resistance have been identified, and these findings have been made available to turfgrass users in the form of Extension publications. Among the most significant accomplishments was the determination that improved tall fescue cultivars possess good turfgrass quality while maintaining their inherent disease and insect resistance. Tall fescue is well adapted to a broad range of soil and environmental conditions and is used for roadside vegetation and lawns throughout the

Northeast. Tall fescue is a particularly valuable species where environmental stresses severely limit the use of other cool season grasses.

Research conducted in New Jersey indicated that hard fescue is also a promising low-maintenance grass that provides a dense stand, resists disease and weed invasion and retains good midsummer quality.

Researchers in New Jersey were among the first to recognize the endophytic fungi, which occur naturally in tall fescue and perennial ryegrass, provide some remarkable benefits. Endophytic fungi grow within plant tissues and are passed on to succeeding generations by their presence in the seed. These endophytic fungi have been associated with insect resistance, improved turf survival under conditions of severe environmental stresses and resistance to weed invasion. After years of study, it was learned that those turfgrasses possessing endophyte exhibited enhanced resistance to sod webworms, billbugs and chinch bugs. These findings represent a major breakthrough in the biological control of these insect pests in turfgrasses. The major challenge now facing turfgrass

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EDITORIAL

(Continued from page 2)

perceives the pros and cons of pesticide use. Victor Kimm, the Environmental Protection Agency's deputy assistant administrator for pesticides and toxic substances, will provide a regulatory viewpoint. These speakers hold aggressive opinions on the use and misuse of pesticides. They will be controversial. You may not agree with them, but you should be there to hear them out. A panel question-and-answer forum will follow the presentations.

Now, after you've feasted on these presentations, and the lights of the city are turned up, you can go out on the town. New Orleans is a great city and will be a terrific backdrop for the GCSAA Conference. Take the time now to start planning to attend. This is one conference you don't want to miss.

Iлона Gray



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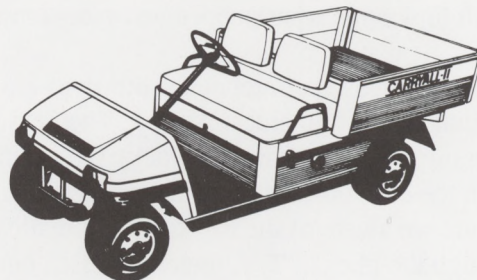
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GCSANJ NEWS

SKIP AND CANOE BROOK - PERFECT TOGETHER

The 14th Annual Invitational Team Championship is now just a memory, but it is a very pleasant one. Skip Cameron had come to me to offer the use of Canoe Brook C.C. for this tournament. In our meeting with their General Manager, Rudolf Fisher, Skip suggested using the South Course because most of the expected teams would not have played this course. It turned out to be a good suggestion because entries started coming back on August 2nd and the field was filled by August 10th. At the Board's suggestion, I asked Skip if we could increase the field and he agreed. We went from 32 teams to 36 teams. We still had to turn down eight additional teams. It actually was the only real difficult thing that I had to do.

The weather was beautiful and Steve Chirip had spent many nights preparing the scorecards and putting names onto the bag tags. Everything was in order and Dave

Mayer, Ed Mellor and Fran Owsik worked the registration table along with Steve.

Skip, Joe Fricovsky, Chris Holenstein and the entire crew worked their usual magic. The course was in normal shape which means it was perfect. Everybody at Canoe Brook should be proud of how they do things. They opened their doors and arms to make us feel at home. I wish this is where I lived! Everybody was friendly and professional as they assisted us. It was a great experience and I hope we can do it again.

Unlike last year, both events were decided on a match of cards. In the Superintendent-Pro event, Gerald Fountain and Dennis Milne of Trenton defeated Steve Finamore and Gary Danback of Alpine. These teams shot 62. In the team competition, Montclair G.C., represented by Greg Vadala, Mike Stubblefield, Reese Jones and Joe Dillenback, defeated last year's winners, Greenbriar Woodlands, for third place. Montclair's score was 58. The

(Continues on next page)



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GCSANJ NEWS

winning team from Lake Mohawk included **Dick LaFlamme, Davis DeRosa, Larry Farmer and Bob Meister**. They defeated the Alpine C.C. team, which also shot a 57. Alpine's team included **Steve Finamore, Gary Danback, Bill Sherry and Jay Wilsher**. Lake Mohawk's eagle on the first hole was the difference.

Closest to the pin on the seventh hole went to **Pat Palastro** (Greenbriar-Woodlands) and on the fourteenth hole it was won by **Len Fox** of Tavistock. **John Carpinelli** (Moorestown) hit the ball over 300 yards to win the longest drive. The Low Pro was **Dennis Milne** of Trenton with a 70.

NEW MEMBERS RECOGNIZED

Please join "The Greenside" in welcoming these new members:

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Category B

Gregory G. James

Plainfield C.C.

Category B-1

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(Continues on next page)

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GCSANJ NEWS

We would like to congratulate Sal Barone of Edgewood C.C. as his category changed from B to A.

U.S.G.A. ANNOUNCES REGIONAL CONFERENCE

It is time to start preparing your winter schedule and we are pleased to announce the following USGA Regional Conference schedule:

Tuesday, March 17, 1992, Albany, NY

Thursday, March 19, 1992, Hauppauge (Long Island), NY

Tuesday, March 24, 1992, Boston, MA (Wakefield)

Ken Krausz

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creations. It is located in northern New Jersey only minutes from the Hudson River and New York City. It truly is a beautiful setting for a golf course. The rain forecasted for our tournament stayed away and everybody enjoyed a spectacular fall day. **Steve Finamore, Mike Vacchiano** and the entire crew do a superior job in maintaining this course. You can tell they all love their work and their workplace. Also adding to our enjoyment was the quality of the food and service. They were excellent. We extend our thanks to everyone at Alpine for allowing us to enjoy ourselves so completely.

On the golf course, most of us had to settle for enjoying the scenery and not our scores. There were some exceptions. **Ian Kunesch** and **Kevin Neal** both shot a 76, but Ian won the Sherwood Moore Cup on a match of cards. Kevin did win the Dr. Henry Indyk Cup while **Steve Finamore** took the honors in B Flight. **Jack Martin** won the C Flight and **Bob Moore** captured the Dr. Paul Sartoretto Cup in the Commercial Division. In a separate competition, **Phil Scott's** 78 led District #3 to the District Championship. **Dave Mahoney** had the longest drive while **Rob Finnesey** and **Kevin Neal** took closest to the pin honors.

The District Championship winners were: **Phil Scott, Dave McGhee, Fran Owsik, Dennis Smaldone, Angelo Petraglia** and **Shaun Barry**.

Skins were **Tom Tarsia, Ian Kunesch, Kevin Neal, John Farrell (Eagle)** and **Chris Carson**.

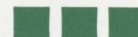
The results of the Championship were as follows:

Sherwood Moore Cup	Ian Kunesch	76
Dr. Henry Indyk Cup	Kevin Neal	67
Dr. Paul Sartoretto Cup	Bob Moore	85
Supt. Low - Gross	Ian Kunesch	76
	Kevin Neal	76
	Phil Scott	78
	Tom Grimal	81
A Flight - Low Net	Kevin Neal	67
	Ian Kunesch	70
	Phil Scott	71
	Tom Grimal	75
B Flight - Low Net	Steve Finamore	70
	Tom Crump	72

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GCSANJ NEWS



	Dave McGhee	74
	Les Stout	74
C Flight - Low Net	Jack Martin	77
	Chris Carson	79
	Vinnie Bracken	80
	Mike Vacchiano	80
Commercial - Low Net	Bob Moore	71
	Bob Gregory	71
	Rob Finnesey	73
	Steve Chirip	74
Guests Low Gross	Tom Tarcia	75
Low Net	Mark Mason	74

Shaun Barry

DISTRICT 1 REPORT

Most of the members who made it to the District #1 meeting at Walkill C.C. had to use a map or stopped to ask directions. I think the 300 plus members want to keep it that way, so I won't tell you how to get there. Just call **Steve Roberts** and see if you can get on because this is a fun golf course. Steve does a marvelous job and the different tees make this 9 hole course truly play like a tough 18 hole delight. You are asked to hit every club in your bag and there is one green about the size of **Dave Pease's** old Cadillac. Everybody who attended had a great day and it was capped off by a wonderful dinner cooked by friends and members of the club.

The day of golf also had its high points. The qualifying scores were lead by **Steve Roberts** and **Matt Ceplo** with 74 each and **Ed Walsh** with a 75. Joining these players were **John Wantz**, **Dennis Kyrchowecky** and **Rich Fodor**. The closest to the pin award went to **Derry Boyer** and **Rich Fodor** had the longest drive.

The real highlight of day came when my group reached the fourth tee and we watched **Mike Mongon** hugging **Ed Walsh**. I knew they were friends but this was unexpected. Then Mike hugged **John O'Keefe** and **Matt Ceplo**. I was really beginning to get nervous and when Mike started waving at us, I remembered a dentist appointment that I had forgotten. Before I could leave, **Sam Juliano** realized what had happened. Mike had made a hole-in-one. What a great achievement especially on a 217 yard hole. It truly was a great day and I shook Mike's hand.

Shaun Barry

DISTRICT SUMMARY

The last district to complete the qualifying for the
(Continues on next page)



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Field Day kudos

John Carpinelli wishes to thank the following individuals who volunteered their efforts to make the GCSANJ's "Turfgrass Equipment, Irrigation and Supplies Field Day" a success: **Alan Phillips, Bennett Wartman, Debbie Mantell, Karen Carpinelli and Ed Schulsinger.** Special thank yous go to **Jack Poksay** for coffee and donuts; **Double Eagle Equipment** which provided transportation equipment; **Howard Scott, Judy Policastro** for

registration and financial coordination and **Len Forlenza** for helping everybody who needed help at the field day. The success of the day was brought about by these volunteers as well as the 70 plus exhibitors who gave their time and support to our association.

Incidentally, John's phone number in the GCSANJ Directory is incorrect. The correct number is (609) 235-0150. The error in the directory apparently treated the real owner of that number to a first class experience in what it's like to be responsible for the GCSANJ Field Day.

Turfgrass scientists face challenges

(Continued from page 4)

scientists requires developing techniques that will incorporate beneficial endophytes into species and cultivars that do not naturally possess them.

Excerpted from "The Keynoter", a publication of the Pennsylvania Turfgrass Council, Inc., Vol. 19, No. 2, Summer 1991.

GCSANJ NEWS

(Continued from page 8)

District Championship was District #1 and it was held at Walkill C.C. on August 15th. This district meeting concept was an experiment but it is one that has proved very successful. It was hoped that we could get member clubs involved that had not been able to host our large monthly group. Toms River C.C. and Walkill C.C. held their first-ever meetings. It was also thought that this would allow more people to attend. We know that August is a period that most people stay close to home. Keeping it in the District might help. This also proved successful. Last year our July meeting had 48 golfers and our August meeting had to be cancelled due to a lack of attendance. This year we had 112 people attend the four meetings. The third wish was that this concept would get the districts more active, attract more members and thus make the state association stronger. It is still too early to know if this will be achieved, but the potential is there.

Madison C.C. has already volunteered to host the District #2 meeting in 1992 if we have a suitable date. If you think you and your club would be interested, please let Dave Mayer or Shaun Barry know.

Shaun Barry

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Deadlines and dedication

by Ken Krausz

Deadlines. We all have them and they sometimes lead to what I call "crisis management". This year has been a year of deadlines like none before it. After a year on "The Greenside" staff, I learned a lot about deadlines. This year has taught me how to better manage my time, and, more importantly, how to let those around me help to take care of some of those tasks I cannot fit into my schedule.

Most importantly, this year opened my eyes to the amount of work and time it takes to publish a newsletter and the amount of behind the scenes phone calls, letters and conversations it takes to run an organization such as the GCSANJ.

Dedication has made meeting those deadlines possible, and I am not speaking of my dedication but that of all the members of this association. I have called on many members to help me in many ways this year and have not had one person tell me they are too busy or that they did not want to help out. As a matter of fact, I have had members ask what they could do to help at times when I already had met my deadlines. But do not fear, I remember who

you are and will be calling on you in the future.

To all of you who have submitted articles for "The Greenside", you have no idea how much they have helped. When I call Ilona Gray on the day before the deadline for "The Greenside" and she tells me that she has a full newsletter, I breathe a sigh of relief knowing we have met yet another deadline. Thank you everyone who has helped to make my first year on this staff a lot easier than it could have been.

One thing that I was not aware of is the dedication of many of the commercial members of this association. My first job with "The Greenside" was to contact the commercial members and get a commitment for advertising for the coming year. I never realized the amount of money they spend on advertising in our newsletter but it is a lot. I always had the attitude that I spend a lot of money with these vendors so they should give some back. I still feel that way, but now I know they do give a lot more back than I had realized. Not only do most vendors support us financially, but also with manpower. Next time you are at any function, it may be the annual meeting, the field day, our monthly meetings and tournaments, or to help a local superintendent for a big tournament, take a look around and realize the dedication of these commercial members.

It is my feeling that this organization is on the right track and it can only be on that track with the dedication of its members. I want to take this space, therefore, to thank everyone who has helped this organization grow, including our member volunteers, "Greenside" Editor Ilona Gray, Judy Policastro and staff members at Association Management Corporation. We couldn't have done it without you.



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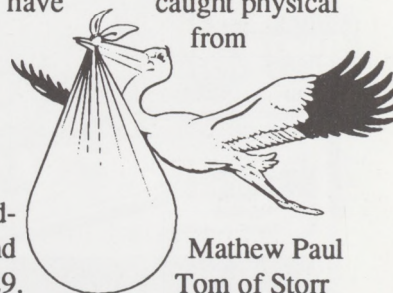
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Fancy Facts from Fenwick

Just because this column has been in a stealth mode of late, manual sightings cannot be ruled out. Our "Greenside" observers have caught physical sightings of some fancy facts from Fenwick and are pleased to report them.

Tom and Carolyn Armbruster are the proud parents of triplets. David Edward, Kimberly Merritt and were delivered on July 29.

Mathew Paul Tom of Storr Tractor Irrigation, says the family is fine and his "other family" at Storr has been very supportive. "The Greenside" extends its congratulations and best wishes to the new threesome.





GCSAA NEWS

THE GRAND TOUR OR THIS IS KANSAS, TOTO

This September marked the beginning of a new era for the Golf Course Superintendents Association of America: the dedication of its new headquarters in Lawrence, Kansas. This state-of-the-art facility is the best functional building I have ever toured. Planning for the future and for expanded member services was central to its design. Those of you who had the chance to visit the old headquarters building probably remember the building as structurally sound but lacking in space and without extra room for expansion.

Recently I had the opportunity to attend a meeting of the "Golf Course Management" magazine committee at the new headquarters building. It is impressive and quite motivating to see the dynamic GCSAA staff who keep us on the cutting edge of the golf industry. The members of the GCSAA should be very proud of all the behind-the-scenes work that is done in educational, governmental and regulatory issues; scholarship and research and our excellent publications. We have the resources available at our fingertips. The amount of information disseminated by the GCSAA on a daily basis is overwhelming. I believe that if we are going to be a force in the golfing world, we need a facility such as our Lawrence Headquarters.

Seminars are now possible in our own building. All our members can visit the Lawrence facility and take advantage of the excellent educational programs and see for themselves how the GCSAA works to support its members.

It is easy for members to be critical of dues increases and increased membership costs to the various organizations that we belong to as superintendents. Nevertheless, I strongly believe that as a member, you receive what you put into the organization. GCSAA has many services and opportunities that some of us do not use. I urge you to take full advantage of the GCSAA services. You'll see how much they want to help you as a professional golf course superintendent.

If you find yourself in the Kansas City area, take time to drive out to Lawrence and visit our new building. This is Kansas, Toto!

Armand LeSage



Unveiling a bronze casting commemorating the dedication of GCSAA's new state-of-the-art headquarters facility on Sept. 7, 1991, are GCSAA Executive Director John M. Schilling (foreground, left) and GCSAA President Stephen G. Cadenelli, CGCS (foreground, right). The Lawrence, Kansas-based association celebrated the dedication in conjunction with its 65th anniversary.

GCSAA SCHOLARSHIP & RESEARCH COMMENDS GOLDEN TEE CLUB SUPPORTERS

The Golf Course Superintendents Association of New Jersey was one of 14 chapters providing financial support to GCSAA Scholarship & Research during the foundation's recently completed 1990-1991 fiscal year. In addition to the chapter's donation of \$1,000, seven superintendents from New Jersey were members of the Golden Tee Club, the grassroots support organization for GCSAA S&R.

(Please turn to page 18)

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A different set of clubs

by Ron Pompei

Editor's Note: We wish to thank Ron Pompei, a financial consultant for allowing "The Greengrass" to reprint his article, which was sent in by Ken Krausz.

Today's pros carry 14 clubs in their bag; each is designed to meet a specific need so the challenges of playing 18 holes can be met. Short irons and wedges plug yardage gaps for the short game while long irons and woods provide the muscle for shots of greater distance. An investment portfolio can best be compared to a full set of clubs. A full set of short, middle and long-term investments help people reach their most important goals: goals for a comfortable retirement, down payment on a home, college education or savings for current and near-term obligations.

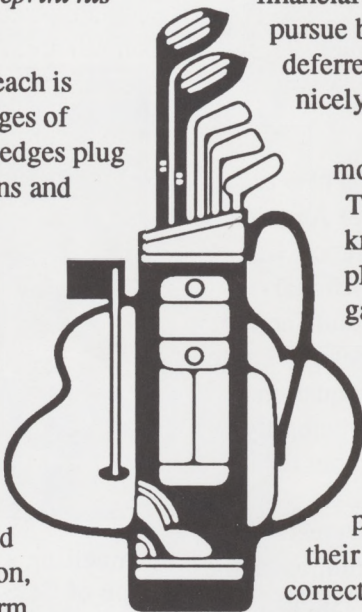
Few golfers have developed a dangerous short game. Players who can chip, pitch and putt consistently know the value of the short iron, wedge and putter. These clubs are like short-term investments that provide liquidity and safety for current obligations and other obligations that are less than two years away. They form the foundation of a portfolio. Investments like CDs and money markets fall into this category.

Mid-irons are represented by investments that are held for longer periods. They may help individuals build wealth for the down payment on a home five years from now or provide college tuition for children who are years away from high school graduation. Investments like mutual funds, annuities, bonds and real estate may be appropriate for meeting these needs. They fight inflation to preserve purchasing power.

Long-irons and woods are built to hit the ball a long way. Growth investments by nature are like long irons and

woods; they are held for the long-term and usually give higher rates of return. They help individuals achieve financial independence at retirement, a goal that many pursue but few achieve. An annuity that grows tax-deferred for several years is one investment that fits nicely in this area.

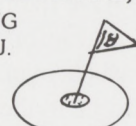
The best golfers have one thing in common: they seek perfection, but live with reality. They understand golf swing fundamentals and know that in order to become the complete player, they must develop a short and long game. Through lessons, experienced pros correct problems and teach practice-oriented conservative and aggressive golfers to hit more drives longer and straighter and more short iron shots closer to the pin. An experienced financial advisor, like a good golf pro, selects investments to help individuals hit their short, middle and long-term goals. They correct problems and diversify a portfolio so that risk is lower, returns are higher and more income is free from taxes.



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Express yourself to the NJ Turf Expo '91

Don't miss this one. On Dec. 2-4, 1991, you will be treated to professional talks on golf and fine turf, lawn and landscape management, athletic field maintenance and a special evening seminar from **Dr. Houston Couch**. This talk will focus on "Synergistic Tank Mixes to Maximize Turf and Ornamental Tree and Shrub Disease Control".

The NJ TURF EXPO will be held at the Garden State Convention and Exhibit Center in Somerset, N.J. This location is new for the EXPO. Its location is central to all New Jersey and attendance is expected to be strong. The NJ Turfgrass Expo '91 represents the combined efforts of the NJ Turfgrass Association, Rutgers Cooperative Extension and Cook College/Rutgers University.

Also featured at the EXPO will be workshops, educational sessions and a two-day trade show. The EXPO provides an exceptional opportunity for professionals to broaden their knowledge and stay abreast of recent developments in the industry. The workshop sessions cover a

broad range of topics pertinent to the golf course superintendent: Motivating your employees; Basic soils, testing and interpreting results; Right to Know, How to keep in compliance; Equipment repair and maintenance, irrigation systems; Coping with flaws in the design and use of the system; and Using annuals and perennials in the landscape plan.

An opportunity to catch up or maintain pesticide certification is available at the EXPO. CORE training is available from **Jonathan Forsell**

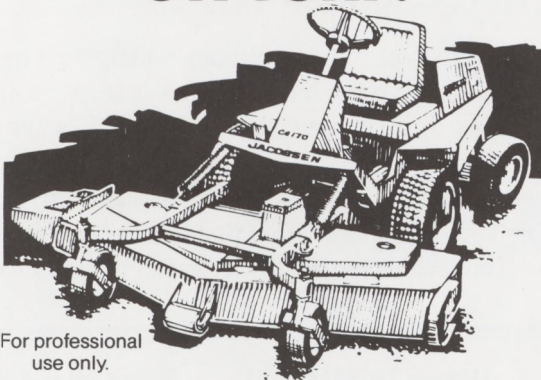
and **Richard Obal** of the Essex and Monmouth extension services. New Jersey Department of Environmental Protection and Energy Pesticide Certification, CORE and Category Tests will be administered as well. (Fees are not included with registration.)

Coupled with all this action, the EXPO includes some social time and programs for awards and recognition for those who have served this industry. Pre-registration is easy and you are urged to attend. Contact **Bea Divine**, Executive Secretary of the NJ Turfgrass Association, at (908) 821-7134 for additional program and registration information.

The members and leadership of the New Jersey Turfgrass Association (**President Richard Hurley**, Vice President **Robert Dobson**, Secretary **Ralph Engel**, Treasurer **Joseph Bianco** and Past President **Robert Dickison**) are all to be commended for putting together this ambitious program. Our hats are tipped also to all the fine volunteers and to the State Extension and Cook College staff. See you there!

Featured at the EXPO will be workshops, educational sessions and a two-day trade show.

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THE BACK NINE



Fall is here once again and thoughts are on renovating and preparing turfgrasses for the winter. Have you considered using perlite in your maintenance program? This article from the Perlite Institute, Inc. should answer your questions.

RENOVATING GOLF GREENS WITH HORTICULTURAL PERLITE

Golf greens are among the most highly managed turf areas to be found. Not only are greens subject to the variables of nature, but greens must withstand compaction from concentrated foot traffic, exhibit infiltration rates sufficient to absorb heavy rainfall without ponding while still retaining water and nutrients for optimum turf growth. In addition, maintenance costs must be carefully monitored and there should be minimum interruption of play for golfers.

The Role of Perlite in Golf Greens

The unique physical characteristics of horticultural perlite make it an ideal material for renovating golf greens. When horticultural perlite is a constituent of the soil in golf greens, perlite particles interface with each other and other soil constituents to create air passages through the green. These air passages provide oxygen to turf roots, which is essential for good turf growth. In addition, these air passages permit excessive water to drain rapidly thus eliminating ponding and allowing play to proceed sooner following heavy rain. In addition, the horticultural perlite eliminates soggy greens, which can be easily damaged. Although horticultural perlite aids drainage, the unique surface configuration of perlite particles enable horticultural perlite to retain an optimum amount of water on their surfaces. This surface configuration retains water and water soluble nutrients making it available to the turf as needed.

Renovating Greens

Ideally, the best method of incorporating horticultural perlite into golf greens is as the greens are being constructed. There are literally thousands of existing greens, however, that can take advantage of the benefits of horticultural perlite through a renovation procedure.

In one technique used to renovate a golf green with horticultural perlite, plugs of turf 3/4 inch (2 cm) in diameter and 10-12 inches (26-31 cm) long, spaced on four-inch (10 cm) centers, are removed from the green. Turf plugs and plug debris should be thoroughly removed so that plug holes are not subsequently refilled by this material.

Horticultural perlite is then spread on the green and swept into the plug holes until the holes are approximately 1/3 full. In the final stage, sand is spread over the green and swept into the plug holes until they are filled. As a result of play, irrigation and rainfall, the horticultural perlite will migrate into the soil surrounding the plug holes to completely treat the green. As horticultural perlite is an inorganic material, it will not rot or deteriorate in the soil but will continue to perform year-after-year. Actual years of service before another treatment is required will depend on many factors such as amount of play, soil structure, irrigation and rainfall.

POLITICIANS AND FACTS

"Politicians will follow opinions widely held by their constituents. On the other hand I've never seen a politician run from a fact. If there are facts, they would always rather face the issue with facts and not opinions. But opinion drives politics in the absence of fact." So said turfgrass expert Dr. Tom Watschke, Penn State, at the recent Ohio Pesticide Applicators for Responsible Regulation meeting.

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NJGCMA makes progress on all fronts



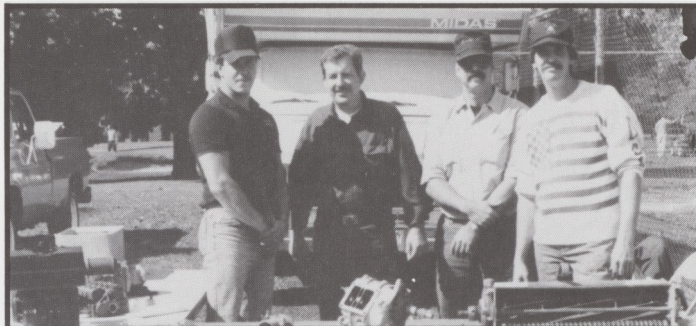
Members of the New Jersey Golf Course Mechanics Association have been hard at work establishing goals, objectives and an operating code of ethics. Led by Ray Schroeder, the association has outlined an 11-point Code of Ethics. The code was established to promote and maintain the highest professional standards of service and conduct among the NJGCMA membership.

The overall objectives of the association have also been formalized. First, the NJGCMA is to provide educational information and programs pertinent to golf course equipment. It will also provide for the exchange of information associated with golf course technicians and their responsibilities. A third objective covers the need for a library and for advertising of used equipment and parts. The fourth key objective is to promote a closer working relationship between the golf course superintendent and technicians.

The members have set some specific goals as well. They plan to evaluate new products and equipment and provide superintendents with information to help them with new purchases and programs. Also planned are training programs in association with vo-tech institutions. Direct lines of communication with equipment manufacturers are

to be opened. This will help improve equipment, given recognition to safety problems, obtain timely information on updates and modifications and utilize their training programs. A video and printed library is also to be established focusing on new equipment and educational and instructional information.

The NJGCMA also plans to publish and distribute a newsletter complete with a listing of equipment and spare parts for sale, rent, loan or barter. The newsletter will also contain the list of available library materials.



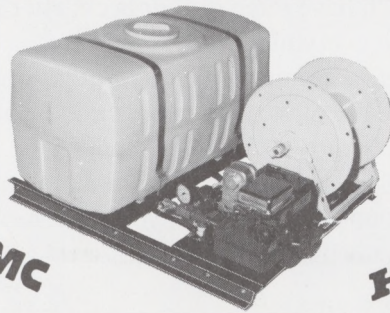
The newly organized N.J. Golf Course Mechanics Association collects names at the October Field Day. Standing (from l. to r.) are Gary Droz, Bob Lay, Wayne Frew and Ray Schroeder.

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X marks the spot

If you are 35 or younger, you probably don't need to or want to read this column. This is going to deal with middle age and for somebody under 35, you probably won't think the things I am about to mention will ever happen to you. That's the way I thought anyway.

Well, I am now 45 years old. Nothing new, I've been 45 for some time now. Let me see, it's been almost ten months. The only reason I mention this is because there might be someone out there, besides my insurance man and Ken and Ginny, who wants to send me a birthday card. The exact date's not important, but it's at the end of January for you folks, like Malikowski, who have only ten fingers and can't figure it out alone.

There are certain things that start to happen when you get to this age. Some of those things might be a bit embar-

rassing like having someone think you're older than Bob Prickett. Now that happened to me and, at that point, I knew things were changing.

I also started to hear some really funny sounds when I swing a golf club. Particularly when I am warming up. Places in my body making noises that I've never ever heard before. Sort of like a 20-car accident on the Turnpike.

Another thing that gets me is that more and more people call me Mr. Walsh. Now that makes me feel old. When I was being brought up, we were always required to refer to older folks as Mister or Misses. But I mean they were real old folks like Flaherty or Rathjens, not someone as young as me.

The other day I took a hearing test and to no one's surprise, my hearing is a little weak. Seems I am going to need a hearing aid pretty soon. The doctor suggests that it is job related. All those years of being around loud equipment. Loud equipment, hell, my past assistants would say. It's all those years of being around myself. No one's closer to that loud voice than me. I'll bet they wish they all had hearing problems when they worked with me. May have made it a lot easier.

Another thing I am noticing is I seem to be going to bed even earlier than before. Now that's something to think about because I've always been a real early-to-bed person. I mean, don't call me after 9 p.m. because I am generally out by then. Now it may be as early as 8 p.m.

Other things that come to mind are hair loss and physical fitness. Some people loose it all quickly but mine seems to be starting in a small circle at the top of my head and working its way out. As far as my physical condition is concerned, I am in terrible shape. I go to the gym and look at all those folks who are keeping themselves in shape and really envy them, but know I don't have the patience to develop a program I'll stay with. Mike Mongon and I play racquetball but I'll have three or four beers after we finish which gives back everything I might have lost.

Well, if this all seems a little confusing, blame it on Bob Prickett. I really didn't think about middle age until that bartender in Scottsdale, Arizona, thought he was my younger brother. As a matter of fact, she suggested that he was my much younger brother. Do you think he might have paid her to say that?

Ed Walsh, CGCS

Another thing that gets me is that more and more people call me Mr. Walsh. Now that makes me feel old.

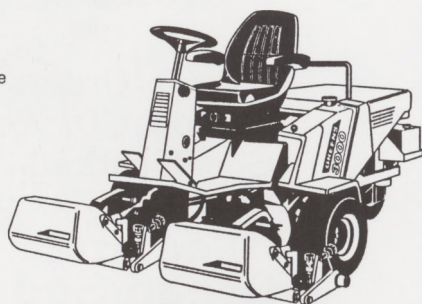
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Fertilization of turfgrass and water quality

by Joseph B. Hackman, Ph.D.
Specialist in Soil Fertility
Rutgers Cooperative Extension Service

Pollution of surface and groundwater are environmental concerns with the use of nitrogen fertilizers on turfgrass. A recent University of Maryland study (Gross et al., 1990, J. Environ. Qual. 19:663-668) determined losses of nutrients and sediments via runoff and leaching from turfgrass. The study compared N fertilizer applied in a liquid and granular form and an unfertilized control. Nitrogen (as urea) was applied at a rate of 4.5 lbs. per 1000 sq. ft. per year according to appropriate spring and fall feeding schedules. Surface runoff was collected from plots with slopes of five to seven percent from significant rainfall events throughout the year. Groundwater samples taken monthly at 0.75 m depth were analyzed for nitrate.

Although nutrient losses via runoff were small, total N in runoff was approximately two-fold higher in the liquid and granular treatments when compared to the unfertilized control. There was no difference between liquid and

granular treatments with respect to runoff. The concentrations of nitrate in percolate under the granular, liquid and unfertilized control treatments were 1.02, 0.85 and 0.33 ppm. The liquid and granular treatments were significantly higher than the control but not different from each other. These nitrate concentrations are lower than the Environmental Protection Agency drinking water standard of 10 ppm nitrate and are considerably lower than nitrate concentrations previously reported under corn. This study demonstrated that very low concentrations of nitrate were found below the root zone of fertilized and unfertilized turf and that nitrogen and phosphorus losses in runoff from established turfgrass were low. Sediment and nutrient losses via runoff from established turf are generally low because of the resistance to surface water movement provided by a dense turf stand. The study concludes "that properly managed and judiciously fertilized turf is not a significant source of nutrients or sediment in surface or groundwater."

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Volume 1, No. 4, Summer 1991.*

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(Continued from page 11)

"Chapter and individual member support are absolutely crucial to our ability to fund turfgrass research and to offer scholarship assistance to future golf course superintendents," said Stephen G. Cadenelli, CGCS, president of GCSAA. "We commend the GCSA of New Jersey and its members for their high level of involvement and assistance."

The GCSA of New Jersey earned a "group" membership in the Golden Tee Club for its contribution. Cadenelli and fellow board members also noted with appreciation the following New Jerseyites who held individual memberships in the Golden Tee Club:

Alan S. Beck, CGCS
Stephen G. Cadenelli, CGCS
Maurice C. Cameron
Benny A. Peta
Wayne P. Remo, CGCS
Eberhard R. Steiniger, CGCS
Jeffrey Wetterling, CGCS

Golden Tee Club membership is open to individuals who contribute \$100 or more annually and corporations, clubs, chapters and other organizations that contribute \$1,000 or more annually to support GCSAA S&R. During the past fiscal year, contributions to the Club totaled almost \$20,000.

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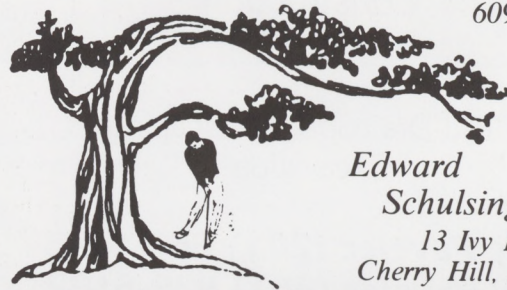
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