

THE GREENERSIDE

Official Publication of the
Golf Course Superintendents Association of New Jersey

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GCSANJ contracts management services

As of April 1, the Golf Course Superintendents Association of New Jersey will be managed by Association Management Corporation in Springfield. The company, which specializes in the management of trade and professional associations like the GCSANJ, currently manages approximately 20 other such groups.

They will provide the GCSANJ with a headquarters location, secretarial services, dues billing and collection, bookkeeping, newsletter, and printing services. Judy Policastro will serve as executive secretary.

The decision to retain Association Management Corporation to provide these services was based on the tremendous growth of the GCSANJ in recent years.

Right up until his announcement of his plans to retire as our executive director as of April 1, Henry Indyck has effectively handled our activities, according to President Steve Finamore. "He will continue to be involved in GCSANJ activities such as the annual Field Day. We wish him well upon his retirement and we are pleased he will remain with us at least on a part-time basis."

After April 1, questions regarding GCSANJ activities can be directed to Judy Policastro at Association Management Corporation at (201) 379-1100.



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THE GREENERSIDE

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GOLF COURSE SUPERINTENDENTS ASSOCIATION OF NEW JERSEY

66 Morris Ave., Springfield, New Jersey 07081

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EDITORIALS

Every golf course superintendent in the country knows that there is one certainty he can look forward to during the year, and that is something or somethings will not occur as planned! That's why there has always been "PLANB." Plan B is what you do when Plan A is not doing the job. Looking ahead for 1989, it looks like two factors will force a lot of superintendents into PLAN B.

The potential for drought this year is significant. In North Jersey the reservoirs are down to about 48% of capacity and rainfall is not keeping up with demand. Unless we have a real frog drowner or two shortly, water will be in tight supply. Plan B. allows one to consider up front what to do if a water shortage does become a reality. The selection of fertilizers, herbicides, and insecticides can be made in anticipation of a drought or limited water. Of course, if you're running off a well or are irrigated from your own ponds or streams, you're in potentially better shape than those who are dependent upon city water supplies.

Remember, insects have a waxy layer on their exoskeletons. Therefore, they can conserve water to a much greater extent than most of us realize. During a drought, certain insects really thrive, especially the cinch bug and the white grub complex. A good Plan B would include a choice, for example, of an insecticide for these pests that does not require a lot of water for activity. You can anticipate similar problems with herbicides that need water for activation. On the positive side, a drought may mean less fungus. This is not the case if you irrigate. Gee, this is a complicated business! This is where Christine Casey, Integrated Pest Management agent, Rutgers Cooperative Extension could provide invaluable help. Contact her at (609) 691-1234 to be placed on the IPM newsletter mailing list which is available free of charge.

A second problem area to be addressed in 1989 is the new Pesticide Code regulations. The posting can be managed with an early start. An early start means purchasing signs, outlining your pesticide program, and most importantly, educating your greens committee and other key people on your course that posting is required. Some people may be overly concerned that the course is treated with pesticides. You should be prepared to deal with their concerns in a professional manner.

If your Plan A is backed up by a Plan B, I'm sure that 1989 will be kind to you. I wish you all an excellent start on the turf growing and playing season.

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PRESIDENT'S MESSAGE



Steve Finamore,
CGCS
President GCSANJ

As you may have already heard, the Executive Committee of the Golf Course Superintendents Association of New Jersey has retained the services of the Association Management Corporation in Springfield, NJ to administer our affairs. Several options were weighed and we are confident that we are proceeding in the proper direction. They will make available to us the services of an executive secretary. They also offer the resources and equipment such as mailing, printing, and facsimile services, to fulfill the many needs of our group.

There will be some policy changes because of this service. One of the more important ones will be the Executive Committee's decision not to accept cash for lunch and dinner at our Monthly Meetings. Because of the large amount of money that is collected, the Meetings and Speakers Committee, headed by Tom Grimac and Bruce Peeples, has proposed that checks be sent in for the amount of lunch and dinner with your reservation card. This proposal has passed and will be effective in April.

Committees are an important part of the GCSANJ activities. They are the gears that make this organization function. Your involvement, then, is needed. For information as to the operation of a certain committee or to volunteer to work on a given committee, contact the committee chairman as listed below.

Government Relations - Gerald Fountain, Bob Dickson — To keep the membership informed as to state

laws and policies and to monitor our lobbying activities. Scholarship and Research - Gerald Fountain, Chris Carson — To make recommendations on which research projects and/or universities we should support and where scholarship monies should be directed.

Club Relations - Ed Walsh, Tom Grimac — To administer the Salary and Maintenance Survey and assist clubs and golf courses in procedures upon request.

Membership and Roster - Larry Dodge — Proposes new members and reports classification and membership changes.

Meetings and Speakers - Tom Grimac, Bruce Peeples — Set up monthly golf and annual meetings and speakers.

Education - Chris Carson, Marty Mantell — Responsible for Winter Seminar, GCSAA Seminar, and other seminars. On Expo Education Committee.

Benevolent - District Directors

Golf and Invitational - Dick LaFlamme, Shaun Barry, Steve Chirip, Dave Mayer — To run golf tournament at monthly meetings and plan and coordinate Invitational.

Organizational Study and Bylaws - Dave Pease, Ed Walsh — To review our organizational structure and bylaws and make recommendations for changes.

Sweaters, Shirts, Jackets - Rich Broome, Dave Mayer — Responsible for selling of this apparel with the GCSANJ logo.

Field Day - Len Forlenza, Rich Broome, Commercial Members — To plan Field Day.

Newsletter - Ed Walsh, Bruce Peeples — Monitors newsletter and is liaison between Editor and Executive Committee.

Public Relations - Bruce Peeples, Larry Dodge — Informs newspapers as to pertinent information about our association.

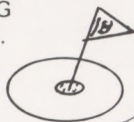
Association Relations - Dave Pease, Ed Walsh, Armand Lasage — LPGA, PGA, MGA alliance

National Delegate - Steve Malikowski — Serves as liaison between our group and GCSAA and the voting delegate.

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A HOLE-IN-ONE!

Fran Owsik, the superintendent at Tamarack Golf Course, made a hole-in-one on Feb. 2, 1989 at the Hanover CC. This feat occurred on the 15th hole which spans 190 yards! The "Greenerside" staff extends its congratulations to Fran! In Japan, I am told that many of the better players carry "hole-in-one insurance." "Why?" you ask? In Japan, when you get a hole in one, you are expected to buy drinks and gifts for everyone on the course. It can easily run into several thousand dollars. Now that may not be a lot of yen, but for most of us, it would put a hole in one's pocket.

STORK DELIVERS BABY, BUT NOT THE NEWS!

We only recently found out from Stork Headquarters that **Dennis Wagner** and his wife, **Linda**, are the proud parents of **Dannielle Marie**. She was born on July 31, 1988 and weighed in at 9 lbs., 1 oz. Dennis, a member of the GCSANJ, is employed at the L.J. Makrancy & Sons Landscaping and Lawn Service, Inc., in Trenton.

SEASON'S TOURNAMENTS SLATED

The following is the list of tournaments for the 1989 season:

April 20	Four Man Low Net - Best Two Balls Wildwood Country Club
May 25	New Jersey versus Philadelphia Manasquan River Country Club
June 26	Scramble Bowling Green Golf Club
July	Two Man Net Best Ball
August 28	Invitational Essex County Country Club
September	District Championship Richmond County Country Club
October	Open

BERGEN TO REPRESENT GCSANJ AT THE GCSAA ANAHEIM CONVENTION

Sky Bergen of Vaughan's Seed Co. makes it his business to know who in New Jersey attended the GCSAA Convention. This year's list totals 85. To find out just how good Sky is at making this determination we are challenging GCSANJ members to review the list and report any omissions to **Iona Gray** at (201) 595-7172. Corrections will be included in the next edition of the "Greenerside." If Sky is 100% accurate, the "Greenerside" owes him one cool beer on the hottest day of the summer. Bergen's list of attendees is as follows:

Wayne Ballinger, Glenn Miller, Steve Cadenelli, John Boyer, Bill Rolland, Pat Campbell, Geof Drake, Wayne Foster, John Wantz, Sherwood Moore, Jim Snow, Henry Indyk, Paul Powwandra, Bob Harris, Pete Coste, Ralph Engle, Chuck Wilson, Dave McGhee, Jack Magnus, Bryon Johnson, Bill Koonz, Charlie Dey, Marty Futyma, Al Caravella, Clyde Ashton, Paul and Marylou Des Champs, Stan Stevenson, Tony Grasso, Greg Closs, Chris Carson, Marty Mantell, Larry Dodge, Bruce Peeples, Jeff Allen, John Schoellner, Doug Fraser, Bruce Cadenelli, Jim McNally, Jim Maclaren, Wayne Remo, Les Stout, Bob Ujobagy, Rich Hurley, Steve Finamore, Dave Pease, Armand Le Sage, Ed Rockhill, Joe Kennedy, John Edgar, Dave Mayer, Bob Dickison, Ray Hansen, Bob Matthews, Joel Jacquemot, Gerald Fountain, Skip Cameron, Jack Martin, Bob Ribbans, Joe Roberts, Ed Walsh, Pete Pedrazzi, Bryan Bolehala, Bill Gaydosh, Phil De Marco, Mark Ericson, Jim Gilligan, Dave Heroian, Chip Kern, Bob Lippman, Bob Moore, Andy Moore, George Pierpoint, Jack Poksay, Bob Scott, Gary Stedman, Mel Summer, John and Jo-ann Ward, Sky Bergen, Shirley Talmage, Bob Prickett, Paul Sartorello, Dave Lerner, and Dennis DeSanctis.

(More GCSANJ News on page 5)

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Baltusrol to host Open for 7th time

The USGA has named Baltusrol GC of Springfield, N.J., as the site of the 93rd U.S. Open Championship in June 1993. The selection means that Baltusrol—the site of six previous Opens—will have hosted more of the championships than any other club. Oakmont CC of Pennsylvania currently shares the record of six Opens.

Baltusrol hosted the event in 1903, 1915, 1936, 1954, 1967, and 1980. The course has also been the site for seven other USGA-sponsored championships, including three U.S. Amateur Championships.

(GCSANJ News continued from page 4)

GCSAA ELECTION RESULTS OUTLINED

The results of the elections held in Anaheim on Feb. 13, 1989 are as follows:

President - **Dennis Lyon**, Aurora, Colorado
 Vice President - **Gerald Faubel**, Saginaw Michigan
 Elected to two-year terms as directors were:

Stephen Cadenelli, Jackson, New Jersey
Randy Nichols, Dunwoody, Georgia
Gary Grzgg, Olathe, Kansas

Randy Zidik, Upper St. Clair, Pennsylvania, was appointed to fill a one-year vacancy on the Board.

Returning Board members are:

Joseph Baidy, Lyndhurst, Ohio
William Roberts, Grosse Pointe Woods, Michigan

Secretary/Treasurer - **Steve Cadenelli**, Jackson, New Jersey

John Segui, Berwyn, Pennsylvania, sits on the Board as immediate past-president.

Congratulations to all these fine active members. Special congratulations to our own "native son," **Steve Cadenelli**.

(GCSANJ News continued from page 4)

HOSPITALITY AT ANAHEIM

For the second year in a row, we have enjoyed a successful hospitality suite at the Anaheim Conference & Show. The rooms were filled on both evenings. The Associations involved with the suite this year were New Jersey, Connecticut, Metropolitan New York, and Rhode Island. We hope all who spent time at the suite found it to their liking.

GCSANJ wishes to acknowledge and thank the following companies and individuals who contributed to the success of this endeavor:

Double Eagle, Fertl-Soil, Grass Roots, **James Barrett**, Koonz Sprinkler, Pavelec Brothers, **Rees Jones**, **Stephen Kay**, Storr Tractor, **Steven Willand**, Montco Products, Aqua-Flo, Vaughan Products, Bunton Turf Products, The Terre Co., Lesco Inc., Lebanon Chemical, Elanco Products, and Aquatrols Corporation.

Again, thanks to all who contributed and participated. We look forward to meeting again in Orlando!

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California dreaming

Approximately 17,000 people attended the recent conference in Anaheim. I must admit that I enjoyed the show more when it was of a smaller, more intimate size. That's the price you pay for success and good marketing!

Driving in southern California on their highways is really crazy. I fail to see how anyone can enjoy it—we hit one highway in the San Diego area that had sixteen lanes of traffic. Great fun! I'll take a New York City traffic jam any day.

Mike Wallace from Connecticut had a very strong showing in the election but still failed to win a seat on the Board of Directors. He doubled his vote total from 1988 and still came up short. Let's hope that if Mike decides to run again in a year or so the results are more favorable.

It strikes a number of us that GCSANJ should mount a major push to increase its membership in the national association. We presently have many local superintendents who do not belong to GCSAA—it should be a priority for our group.

One sees a lot of odd ball equipment on the trade show floor. I guess people design and manufacture a piece of equipment, make it available at a show, and see what happens. It suspect it's the best way to judge the marketability of that item.

I had the opportunity to spend a few days in Santa Barbara following the conference . . . a truly lovely town,

nice beaches, wonderful restaurants, and some good wineries. Nice combination!

Hopefully all who attended our regional hospitality suite found it to their liking. We had a nice crowd in

(Please turn to page 7)

Golf course water will cost \$26,000

Middlesex County will pay East Brunswick about \$26,000 a year for water used at the Tamarack golf course, the "Holmdel Home News" reported recently.

The Board of Freeholders approved an agreement last week to buy up to 2 million gallons a year at \$1.05 per 1,000 gallons.

The state has ordered reduced use of wells to help preserve underground water supplies. Because the county can only draw half as much water from its Tamarack well as before, it had to find another supply.

More than 18 months ago, the freeholders retained a consultant to advise where they could best find the replacement water.

East Brunswick no longer uses wells and obtains its water from a surface water supply. The township can provide the most cost-effective solution to the county's problem, the freeholders decided.



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X MARKS THE SPOT

Having recently returned from the GCSAA Convention in California, my path often crossed one of America's real tragedies: airport and bus terminal restroom sink faucets. You know the ones. Those contraptions that require the use of at least four hands if any success is expected. Please tell me how in heck a person is supposed to wash one hand at a time. You know you've got to learn because you have to keep at least one hand on the faucet or that sucker will spring back and shut you off all together.

You know who I think about whenever I'm in one of those restrooms? The poor guy on "The Fugitive." Remember that TV series with David Jansen? Remember that guy who really killed Jansen's wife . . . the one with only one arm? We always saw Jansen tracking him through some airport or bus terminal. Now if that's where he spent most of his time, someone please tell me how he ever washed his hands? Oop's, I mean hand. I still haven't figured out how to do it with two hands and that guy was supposed to wash with one. Fat chance.

I hope someone in higher places reads this column and realizes what the little people are going through. I also wonder what ever happened to that guy from "The Fugitive." Probably has a convertible and drives through car washes with the top down. May be the only time he's clean.

ED WALSH

California dreaming

(Continued from page 6)

attendance both evenings. If all goes well, we'll do it again next February in Orlando. Be there!

It's interesting to note the growing Japanese presence at the conference and show. One sees more and more literature at the show printed in Japanese.

After eight years, it was fun to return to the California Wine Bar at the Disneyland Hotel. It's a quiet, pleasant spot in which one can enjoy some of the finer wines produced in the state. I hope when we return to Anaheim for a conference in the future the wine bar is still going strong.

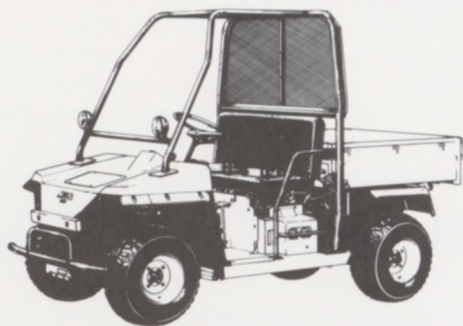
If you stayed at the Hilton on their Tower floor, you caught a nice deal. We had food and beverages available from 7 a.m. until midnight. It was enjoyable sitting up in the lounge, relaxed, seeing your friends. We paid a few bucks extra, but as they say, you only get what you pay for.

The leadership of GCSAA seems to be in very good hands for the next four years. The lineup of Dennis Lyon, Gerry Faubel, Steve Cadenelli, and Bill Roberts is a strong one. This also gives newer Board members time to mature into leadership positions.

Exciting things are happening on the GCSAA PR front. Lots of programs are in the pipeline. The bottom line is that truly effective PR begins with each of us. GCSAA can not do the whole job for us.

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IPM and the golf course superintendent ... a 1989 update

by *Christine Casey*

Integrated Pest Management Agent — Ornamental Horticulture

Rutgers Cooperative Extension

Last year, "Greenside" Editor Ilona Gray asked me to write a series of articles on integrated pest management (IPM), I hope they were useful and informative. The following is similar to last year's introductory article on IPM, with some changes to reflect the 1989 season. I look forward to working with many of you in the coming year.

Insect, disease, and weed problems are nothing new to the golf course superintendent, and neither are the problems that often accompany the pesticides used to control them. Diminishing effectiveness, increasing costs, and safety considerations are legitimate concerns surrounding pesticide usage. In response, many agriculture professionals have turned to an alternative pest control strategy called integrated pest management (IPM). In New Jersey, IPM programs are developed and implemented by IPM agents, county agricultural agents, and specialists who work for Rutgers Cooperative Extension. While New Jersey vegetable and tree fruit growers have had IPM programs for many years, ornamentals and turf IPM is a relatively new program in our state. IPM programs often use pesticides, but the emphasis is put on keeping pests at low levels through the use of other pest control strategies so that pesticides are used less often, and serious pest problems are prevented. IPM also differs from traditional pest control in that it employs a variety of control strategies, rather than relying on a single strategy (usually pesticides). Some of the different pest control tactics used in an IPM program include:

MONITORING

Traditional pest control programs have been based on the calendar—sprays were applied at certain times of the year, regardless of whether the pest was actually present. In an IPM program, regular plant inspections (about every two weeks) are an essential way to keep track of changes in pest problems. In addition to plant inspections, insects are monitored through the use of insect traps. Blacklight traps catch insects which are attracted to light, while another type of trap, the pheromone trap, uses a synthetic sex attractant similar to that emitted by the female to attract the male for mating. These traps can indicate when an insect is first present in an area, and how its population is changing. Another useful monitoring tool for the turf professional is the diagnostic test kits which have been developed for brown patch, dollar spot, and pythium. These enable

the superintendent to make a positive disease identification in less than half an hour. Based on monitoring, pest control decision can be made according to what pests are known to be present, not on what is thought to be present. Regular monitoring can prevent pest problems because potentially serious infestations can be discovered while they are still minor. In addition, when plants are inspected on a regular basis, it is possible to keep track of biological control agents such as ladybird beetles or scale predators when plants are being inspected regularly. Monitoring alerts the superintendent to previously undetected pest problems, so plant and turf quality improve.

In addition to plant monitoring, environmental monitoring is also important. This enables the superintendent to stay on top of environmental conditions which favor a particular disease or insect.

CULTURAL CONTROLS

Golf course superintendents are aware of the role that temperature, humidity, irrigation, and fertilization can play in the development of turf diseases. While the first two cannot be controlled, the latter two can be manipulated to help reduce the incidence of disease. Also, some of the pest problems seen on the golf course are the result of plant stress from either poor soil conditions, poor plant quality, or improper plant siting (wrong amount of sun, soil moisture, etc.). Regular soil tests can provide a great deal of useful information about plant growing conditions which the superintendent can use to prevent pest problems.

PHYSICAL CONTROL

Many pest problems can be prevented via physical means. A weekly washing with the hose will remove such common pests as aphids, while other insect or disease-infected plant parts can be removed by pruning. Barriers such as burlap tree bands can also be effective. Insects such as gypsy moth caterpillars and elm leaf beetles will hide under the bands during the day, where they can be destroyed. In addition, physical barriers such as mulch can be used to reduce weed levels around landscape plants. Mulch has the additional benefit of increasing soil moisture retention.

BIOLOGICAL CONTROL

There are many naturally-occurring predators and parasites of plant pests. These include the ladybird beetle and the preying mantis, while an example of an introduced parasite is milky spore disease for Japanese beetle grubs. There are many others which are commonly present, but are so small that they are seldom seen. When the use of pesticides is limited, natural predators and parasites are encouraged since most pesticides will kill these beneficial organisms.

RESISTANT PLANT VARIETIES

Many landscape plants and turf varieties are naturally resistant or have been bred to be resistant to insects or diseases. Use of these plants can have a

(Please turn to page 12)

GCSAA NEWS

DIRECTOR'S CORNER

I want to take this opportunity to thank each and every member of the Golf Course Superintendents Association of New Jersey for the tremendous support of my candidacy for vice president of the Golf Course Superintendent's Association of America. Although not successful in that race, I was re-elected to a two-year term as director and was subsequently appointed secretary-treasurer by President Dennis Lyon.

It would not be possible for me to attain this level of involvement within GCSAA without the support of my peers from New Jersey for which I am most appreciative.

The Anaheim Conference was most successful for all concerned judging by comments received. Total attendance reached well beyond 15,000 for the first time ever. Traffic on the floor was excellent throughout the show days, and attendance at virtually every educational session was excellent as well. Such a response is most gratifying to those who work so hard to plan the programs. Further, it serves to stimulate those charged with planning future programs.

Please forward comments, criticisms, and suggestions to me regarding the conference at your earliest convenience. Such feedback is helpful in future planning so as to insure that members' needs are being met. Thank you.

STEVE CADENELLI
DIRECTOR, GCSAA

GCSAA ELECTION RESULTS

The results of vote tallies of the Golf Course Superintendent's Association of America election held in Anaheim are as follows:

President	Dennis D. Lyon, CGCS	
Vice President	Gerald L. Faubel, CGCS	3,299<
	Stephen G. Cadenelli, CGCS	1,026
Director	Stephen G. Cadenelli, CGCS	3,406<
	Randy Nichols, CGCS	3,259<
	Gary T. Grigg, CGCS	2,234<
	Randall P. Zadik, CGCS	2,088*
	Michael Wallace, CGCS	1,716

<Elected

*Appointed to fill one year remaining of Mr. Faubel's term as Director.

HOSPITALITY SUITE '88'

The Golf Course Superintendent's Association of America annual hospitality suite held at the New Jersey Turfgrass Exposition was another tremendous success. Colleagues attending from the tri-state area, coupled with distinguished attendees such as Dr.

Robert Carrow from the University of Georgia and our own legendary Dr. Reed Funk, rounded out the participatory event in grand fashion. The camaraderie and fellowship between seasoned Turflies depicted a final farewell to a summer growing season of similar intensity.

DAVID R. PEASE

GCSAA GOLF CHAMPIONSHIP RECAP

Sixteen of New Jersey's finest ventured to Palm Springs, California to participate in the 1989 GCSAA Golf Championship recently. Most of us anticipated the 80 plus degree weather and hoped to score well enough to bring home even a small trophy. Well, the weather was awful; our scores were worse. Let's leave it at that.

Thanks go to Jack Montecalvo, Bob Prickett, and Wayne Remo for preventing a New Jersey shut-out. All three finished well in their flights and did return with a beautiful pewter plate signifying their accomplishments.

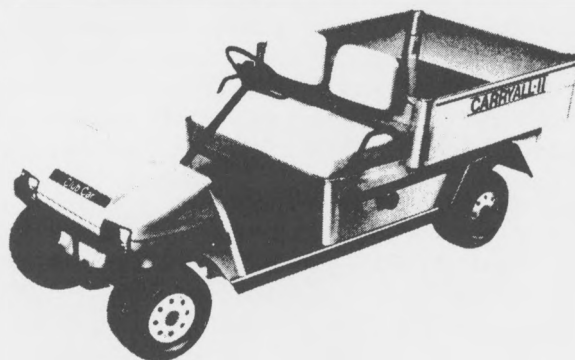
The rest of us voted to withhold our names from this publication until we improve. Let's hope we will need two pages to list our victories next year.

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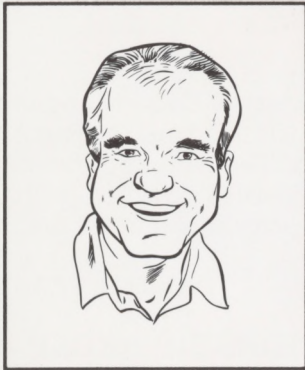
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Jim Gilligan's Column

The thrust of the Pratt & Whitney engines propelled the American DC-10 down the Newark runway, lifted the plane into the air, and powered the climb west. The journey to Anaheim and the GCSAA Conference and Show had begun.

We landed in Los Angeles almost one hour late due to the strong headwinds. Once I claimed my bag, I boarded a bus for my Anaheim hotel. The bus, without my knowledge, took a circuitous route turning a 45 minute ride into a two-hour trip. Finally, we arrived at the hotel, three time zones and 12 hours later. It was time to rest.

Surprise! My reservations had been cancelled. Too tired to join the homeless, I requested the day manager review my confirmation slip that I had so thoughtfully brought with me. Finally, I was admitted and assigned room 502.

My first official function of the GCSAA Conference was to check in for a two-day seminar, entitled "Not Necessarily for Newsletter Editors." The object of the seminar was for the participants to prepare an article for publication in a trade magazine, preferably Golf Course Management. Among the things I learned was that I needed to structure my writing so that it would be more readable. I also realized I have to give up by Mongol #2 pencils and begin to use a word processor in order to submit these articles before the deadline.

The morning of the seminar's second day, GCSAA staff shared some ideas and then listened attentively to the concerns of those superintendents present. The highlight of the morning session was the presentation of the newsletter awards. I was privileged to accept an award for "The Greenerside" Editor Ilona Gray.

The apex of the conference was the Trade Show. Since I haven't been able to attend since 1986, it was important for me to see the major exhibitors. I was there at 8:30 a.m. anticipating the ribbon cutting to get my Jacobsen hat, but I was detoured by an important telephone call. When I finally got to their booth, the hats were gone.

Undaunted, I was determined to go home with a hat, so I submitted to a questionnaire by the "Express Dual" people and was rewarded with a nice corduroy hat.

Once I began my systematic canvas of the Trade Show, I knew I would be out there all day. There were over 450 exhibitors in three large exhibition halls plus an arena hall. I had said to myself, "Don't pick up any literature." But once I found my bearings, I realized I filled a large bag with brochures, equipment manuals, and free trinkets (I like key chains). When I got back to

my room, I discarded almost half of the literature, but I kept the hats and key chains.

Quicker than I thought, it was Sunday morning, my last day in Anaheim. It dawned bright and sunny.

I attended one of the major speaker sessions, entitled "You Can Get Anything You Want But You Have to Do More Than Ask." I learned some things about negotiating that should come in handy at budget time, but I left when the speaker began to sell his tapes and videos.

I returned to the hotel for the last time, picked up a rental car, stowed my bags, and headed for the beach. Sunset Beach was my first stop to buy some tee shirts and take a walk on the sand. The off-shore wind was strong but I persisted in reaching in and touching the Pacific Ocean, a symbolic gesture. I continued south on the PCH (Pacific Coast Highway) and stopped a number of times to enjoy the California coastal climate.

I drove back to LAX and dropped the car and took a shuttle over to Union Station to board Amtrak's "Sunset Limited" to Houston and then a flight home through Nashville and then on to Newark and my final destination: Skillman.

The train was fascinating. The scenery through the deserts of Arizona and New Mexico was spectacular. The accommodations and food were good aboard the train; the whole ride was interesting.

The whole trip was a good experience and I learned a few things too!



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LPGA 1989 at Bamm Hollow

The 1989 LPGA Chrysler Plymouth Classic has moved up one exit on the Garden State Parkway. This year's tournament will be held at the Bamm Hollow Country Club in Lincroft. The club signed on for the tournament in December, so it has left superintendent Phil Scott and staff precious little time to prepare for this event. Dates for this year are May 8-14, with the tournament on May 12, 13, and 14.

GCSANJ will again be involved in the tournament on various levels. Our formal participation will be the transportation committee. For many years, GCSANJ has donated its resources to chauffeur the players from the airports and hotels to the tournament site. It is hoped that our members will again heed the call and make themselves available for committee work.

Our more informal participation is the work crew that gets together to stake and rope the course for the tournament. Many years ago this started with Shaun Barry and John Hyland volunteering their time, but in

A 1989 update

(Continued from page 8)

positive impact in the reduction of pest problems. Breeding programs at Rutgers are now focusing on the introduction of endophytes into turf varieties. An endophyte is a fungus which is found between the cells of the turfgrass plant and helps to reduce feeding by some turf insects. It is not pathogenic to the turf.

PESTICIDES

As mentioned earlier, pesticides are part of an IPM program, but they are used differently than in a conventional pest control program. The plant monitoring, which is part of an IPM program, enables the superintendent to pinpoint just those areas of the course where a problem is serious enough to warrant spraying. These spot sprays can represent a great savings in the amount of pesticide applied to a property when compared with a conventional program in which all plants would be sprayed. When pesticides are necessary, an IPM program makes their use more efficient since monitoring lets the superintendent know exactly what the pest is and at what time to apply the pesticide so it will be most effective.

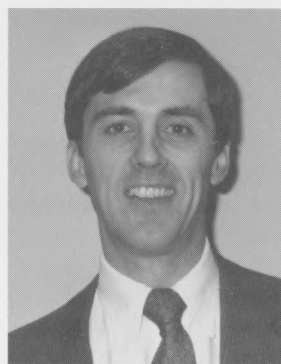
Landscape IPM programs have shown great potential, having reduced pesticide usage up to 70%, while improving plant quality. When monitoring costs are included, this corresponds to a cost reduction of 20-30%. The notification laws which will go into effect this year have created an increased interest among golf course superintendents for information on IPM. Additionally, last Summer's drought put a heavy stress on golf course landscapes, so superintendents can expect additional pest problems on their landscape plants.

For more information on IPM, contact your county agriculture agent.

the last few years, our crew has grown to 10 to 12 individuals. We will be calling past crew members in April to staff this outing. If interested, call Bruce Cadenelli at Hollywood at (201) 531-3609 and add your name to the list. We'll be staking and roping on May 7.

BRUCE CADENELLI

DEP Commissioner addresses GCSANJ



**Christopher
Daggett**

Christopher Daggett, New Jersey Department of Environmental Protection's new commissioner, spoke on regulations for underground storage tanks and NJ Right to Know laws at a recent Golf Course Superintendents Association of New Jersey gathering. After a general review of the two topics, he commented specifically on how these regulations impact golf courses. Also speaking to the group was

John Dana, vice president of FAI Insurance Counseling. He spoke on the current state of the pollution liability coverage availability for golf courses. FAI currently handles coverage for the Metropolitan Golf Association and the Golf Association of Philadelphia. Over 200 clubs are handled by FAI.

The seminar, held in February, also covered the subject of environmental audits (see related story in this issue of "The Greenside"). Cary Burch and Jim Spatarella from Versar, Inc. described an audit from start to finish.

GCSANJ extends its thanks to the seminar participants and especially to Chris Carson, chairman of the GCSANJ Education Committee, for an excellent program.

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You don't know if you don't ask: Environmental audits

This is not the kind of audit you have done by a CPA. Environmental audits, however, may be just as essential to your ability to keep your course open. The objective of an environmental audit is to determine your existing and potential environmental liabilities. Associated with this is Risk Management, which is the making of informed decisions to either accept, transfer through insurance, or eliminate the risk at hand.

Accepting risk is not without peril. Most of us would find driving at excessive speeds through suburban neighborhoods as an "unacceptable risk." We generally try to "transfer" this risk through insurance to cover the unexpected. This doesn't give us a license to speed, but it does provide financial protection from the liability of a collision. The same is true for environmental situations. Insurance is available for a wide variety of potential environmental liability situations. For example, leaking underground storage tanks containing fuel; a pesticide fire in a storage shed, or an accidental spill. An alternate approach to transferring risk is to contract the job to another business.

We don't recommend that you conduct your own environmental audit. To do a good job requires considerable specialized professional training. Besides, a good audit is always conducted with a little independence. This is a typical check list of what can be included

in an environmental audit:

- Facility description: operations, physical layout, size, location, and water supply
- Pesticide storage, handling, application, and disposal; personal protection, emergency response procedures, spill response, and wash water
- Pesticide application: certification, recordkeeping
- Past pesticide storage and disposal practices
- On-site storage area for hazardous materials
- Fuel storage: above ground/underground; history of spills
- Maintenance shop — oil, lubricants, batteries, drum storage, paints, solvents
- Employee health and safety: medical surveillance and records
- Water treatment — swimming pools, wastewater, irrigation, potable water
- Storm water management: non-point source pollution controls, monitoring, sampling; water incidents (fish kills, algal blooms, odors)
- Indoor pollutions: radon, asbestos, urea-formaldehyde monomer
- Other: PCBs from transformers

The GCSAA has joined forces with a highly respectable environmental audit company, Hall-Kimbrell. The cost of an independent audit can run as high as \$10,000. Through the GCSAA program, a self audit with Hall-Kimbrell guidance can be done for less than \$1,000. That's a significant membership benefit. For further information on this audit program contact the GCSAA at 1-800-472-7878.

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Environmental considerations in golf course management

There were two underlying goals of those attending the January "Environmental Considerations in Golf Course Management Seminar" cosponsored by the Golf Course Superintendents Association of America and the Northeast Golf Course Superintendents Association in Albany, N.Y. The development of a better understanding of how the golf course maintenance programs affect the land we are working as well as surrounding properties was the major objective of the seminar. The promotion of conversation among attendees concerning environmental matters was the second key objective.

Dr. Tom Thomas of Law & Science Associates and Dr. Win Hock of Penn State University served as seminar instructors. The information they provided covered a wide range of topics. A basic review of pesticide use and the effect pesticides have on the environment; the use of an Integrated Pest Management system as an alternative to full-time pesticide use; developing an understanding of the complicated world of water laws; awareness of community right to know laws; understanding environmental audits; and the environmental benefits golf courses provide highlighted the first day's lectures.

The second day was highlighted by in-depth discussions of specific environmental problems. This gave all present a chance to bounce ideas and solutions off

each other. Dealing with the press, club officials, club members, and the public are areas that are important and should be given much more attention by our profession. The seminar participants were asked to role play reporters, club presidents, environmentalists, and, of course, superintendents. This proved to be a wonderful teaching tool. After each segment, all possible scenarios were studied and discussed.

What was most evident throughout the two days of discussions was that it is our job as turfgrass professionals to (1) keep current with all environmental laws; (2) to provide the highest quality training to the people working with us; and (3) to educate ourselves, our club members, officials, and, in some cases, the public to prove to these people that our profession is made up of concerned environmentalists, not uncaring environmental misusers.

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Delay Spring clean-up until Spring!

It's early Spring and you know that all heck is about to break loose on your course. You've been over your cabin fever from the Winter for a couple of weeks and are raring to get out and hit the links.

The first decent weather of the year means it's time to start Spring Cleanup. It's time to pick up the dead leaves from the planting beds and from under the plants where they've been resting all Winter. Don't forget to prune the Evergreen shrubs that were forgotten last season. Don't feel bad that you didn't get to this

Check cholinesterase before spraying!

Most of us are not overly anxious to take blood tests. If your pesticide program includes the repeated use of organophosphate or carbamate insecticides, you may want to consider obtaining blood serum and red blood cell cholinesterase tests before the spray season. Your cholinesterase may be lowered through contact with certain pesticides. The pesticide label will tell you if this is the case with a specific product. By obtaining a base line before the season, you will be able to monitor the amount of any depression of this blood enzyme during the season and take remedial action if required.

Cholinesterase inhibition may be expressed in the following symptoms: malaise, muscle weakening; dizziness, excessive sweating; headache, salivation, nausea, vomiting, abdominal pains. The best way to avoid this is to follow the label instructions carefully and stress safety first. Severe cholinesterase depression can lead to death. Pesticide labels and the N.J. Poison Control office have antidote information.

You can obtain cholinesterase testing at most medical laboratories. Consult your physician's office for particulars. Remember that "normal" cholinesterase values may vary greatly among individuals. That is why each person needs his own base line. Red Blood Cell Cholinesterase has been recognized as a better indicator for chronic exposure, whereas serum cholinesterase is a valuable index of early effects of exposure.

ILONA GRAY

during the Winter. Those dead leaves in the planting beds help protect the plants from winter injuries. As far as the pruning is concerned, you have to wait until the danger of very cold weather is behind us.

It has been my practice working southern New Jersey to wait until the beginning of April to start clean-up activities. In northern New Jersey, you should wait about two weeks into April to start your clean-up. Remember that a plant that is unprotected from the elements can die from exposure, and you wouldn't want that on your conscience! So don't forget to delay your Spring clean up until Spring!

EDWARD SCHULSINGER
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Woman brings suit for golf course rules

It was reported recently that in California a woman has filed a discrimination lawsuit against a country club for giving men preferential hours on the golf course.

Jan Bradshaw, 41, of Yorba Linda said she paid \$14,000 plus \$200-a-month dues to join the Yorba Linda Country Club in January and subsequently found out she would be barred from the course during the most desirable times.



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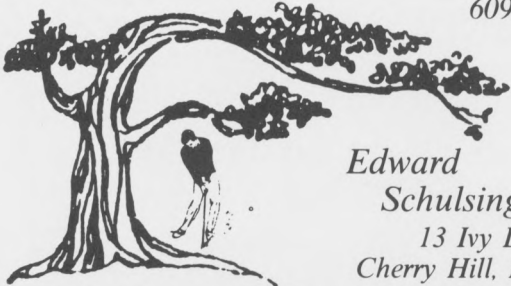
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THE BACK NINE

OVERALL GROUNDWATER QUALITY RATED 'GOOD'

A new report from the U.S. Geological Survey, as outlined in a recent issue of "Agrichemical Briefing," says "The overall quality of the nation's groundwater is good, but management and protection of groundwater resources remain major challenges," according to James W. Ziglar, Assistant Secretary of the Interior for Water and Science.

"Most fresh groundwater meets federal and state drinking-water standards and is suitable for most uses," Ziglar told a news conference during the release of the Survey's fourth National Water Summary on the status of the nation's water resources.

David Moody, the agency's chief hydrologist, said "One percent to three percent of the nation's underground water is contaminated by such specific sources as garbage dumps, industrial waste, septic tanks, and underground storage of gasoline and other hazardous products."

According to the report, the highest concentrations of contaminants are found at small sites associated with landfills, industrial sites, and chemical and fuel storage sites. Lower concentrations, found over broad areas, are related to land-use activities such as agriculture and suburban and urban development.

DROUGHT WARNING - PHASE 2

The 13,000 square-mile Delaware River Basin dropped into the second stage of drought warning on February 5 as storage levels in major water supply reservoirs continued to decline due to unseasonably dry weather.

The Delaware River Basin Commission (DRBC) renewed its call for voluntary water conservation, noting that precipitation amounts in the next few months will be critical in determining whether water supply shortages occur this summer.

At that time, New Jersey's allowable withdrawal was dropped from 100 to 85 mgd.

GOLF'S FIRST FAMILY

Did you know that the Bush-Quayle team is the strongest golfing combination to ever hold the highest offices in the land? The father and grandfather of George Bush were former presidents of the U.S. Golf Association, in 1935 and 1920 respectively, and Grandfather Bush donated the Walker Cup.

Dan Quayle's uncle, Gene Pulliam, served on the Executive Committee on the USGA in the 1970s. Incidentally, the vice president is a seven-handicap player at the Congressional Country Club in Maryland.

Source: The Golf Link

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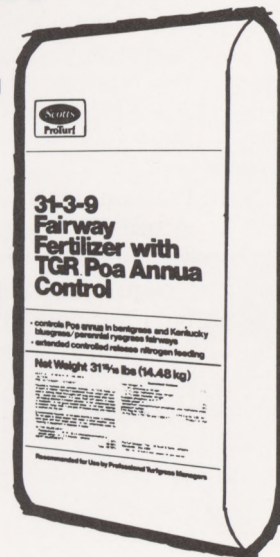
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CHANGED ENVIRONMENTAL POSITIONS OF BUSH ADMINISTRATION

At a 17-nation conference in Washington D.C. on January 30, Secretary of State James A. Baker called for international political action to counter the threat of global warming caused by air pollutants, the New Jersey Environmental Lobby has reported. Specifically, he called for steeper cuts than are now planned in the production of chlorofluorocarbons cited as the chief cause for depletion of the ozone layer that protects the earth from ultraviolet radiation from the sun. Baker also called for greater efficiency in the use of energy to reduce consumption of fossil fuels and urged an effort to plant more trees, which absorb the carbon dioxide produced by burning of fuels.

On the same day, DuPont announced that it had developed technology for replacing fully halogenated chlorofluorocarbons used in refrigerators and air conditioners. The newly-developed three-component blends have an ozone-depletion potential about 97% less than that of chlorofluorocarbon 12, which is so widely used today.

AGENT ORANGE LAST CALL

The Environmental Protection Agency has announced the extension of the SILVEX or 2,4,5-T (Agent Orange) disposal program. If you have any of this material left in your pesticide storage cabinet, this is the last call. Call Angela Coyle or Scott Schwenk at (703) 557-0465 for claim forms.

REGULATION REVISIONS RESTRICT ALL AQUATIC PESTICIDES

Last year you could have purchased a copper product such as copper sulfate to treat an algal bloom in your lake, without a pesticide applicator license. You could have treated your lake, with the copper sulfate, without a permit. Even though an applicator license was, in most cases, required to make the treatment, it was a hard requirement to enforce. New regulation revisions have changed this.

According to the revised Pesticide Control Code, N.J.A.C. 7:30-9.3, "... any pesticide, except an antimicrobial agent, that contains labeling instructions indicating that the pesticide is intended for use in the waters of the state or on aquatic sites . . ." is now considered restricted use in New Jersey. An aquatic site is defined as "those areas inundated or saturated by water at a magnitude, duration, and frequency sufficient to support the growth of hydrophytes, except those specific areas where hydrophytes are being grown as an agricultural crop . . .".

WORLDWIDE EFFORT TO LIMIT NITROGEN OXIDE EMISSIONS

On November 1, 1988, the United States joined 24 industrial nations in signing an international protocol to freeze the rate of emission of nitrogen oxides, a major source of acid rain and other air pollution problems. Under the agreement, signed in Sofia, Bulgaria, beginning at the end of 1994, nitrogen oxide levels would be limited to levels no higher than those prevailing in 1987. U.S. Environmental Protection Agency officials said that the United States was given a credit for having acted on its own in reducing nitrogen oxide levels, thus allowing the U.S. to use the emission level of 1978, instead of 1987. In 1978, emissions levels totaled 20.3 million metric tons as opposed to 19.3 million in 1987, the New Jersey Environmental Lobby reports. Under current trends, they are expected to decline to 18.7 million tons by 1990, but then rise to 20.2 million tons by 2000. The U.S. EPA said that, under the Clean Air Act, the United States could become a party to the protocol without the consent of the Senate.

A group of 12 Western European nations agreed to go beyond the freeze and roll back nitrogen oxide emissions by 30% over the next 10 years, but the U.S. did not join in. A high priority is to be placed on research to determine what levels of nitrogen oxide are harmful to people and to ecological systems, such as forests.

The logo for Aqua-Flo Inc. features the company name in a bold, stylized font. The word "Aqua-Flo" is in a larger, more prominent font, with "Inc." in a smaller font below it. To the right of the text is a circular icon containing a water droplet.

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CALENDAR

- April 12** **MGA CPR Training Class**, American Red Cross Headquarters, Elizabeth. Host: MGA, (914) 698-0390
- April 20** **GCSANJ April meeting**, Wildwood Golf & Country Club, Cape May Courthouse. Host: Steven Malikowski, (609) 465-5883
- April 27** **MGA Tournament Officials Orientation Day and Rules Seminar**, Morris County Golf Club, Convent. Host: MGA, (914) 698-0390
- May 12-14** **LPGA Chrysler-Plymouth Classic**, Bamm Hollow Country Club, Lincroft. Host: Phil Scott, (201) 741-0069
- May 25** **GCSANJ May meeting**, Manasquan River Golf Club, Brielle. Host: Glenn Miller, (201) 528-6500

Are you included under OSHA'S Hazard Communications rule?

If you have ten or more employees—read on!

The U.S. Occupational Safety and Health Administration has expanded its Hazard Communication Standard to include all employers with employees exposed to hazardous chemicals in their workplaces (29CFR parts 1910, 1915, 1917, 1918, 1926, and 1928; Federal Register Volume 52, Number 163, 8/24/87, Final Rule). Employers are to be in compliance with all provisions of the Standard effective May 23, 1988.

All firms must be prepared to supply and document the following:

1. A written hazard communication program must be available. All employees must have been informed (trained) of what safety measures to use in case of an emergency in the work area involving the pesticides.

This includes documentation that non-applicator supportive personnel such as secretaries, mechanics, janitors, et al, have been informed (trained) in what to do in case of an emergency involving the specific pesticides in the work area such as a spill or leak from a container during transport or storage if necessary.

The documentation may take the form of a training outline specifying the pesticides being used, where the MSDS sheets are located in the office and what steps to take in case of a spill or human exposure in any amount. The telephone number for the closest emergency medical center or poison control center should be posted in the work area and records of the staff training must state where the phone number is posted and where the MSDS sheets are located.

2. Pesticide containers must be clearly labeled with the identity of the pesticide contained therein and each must show hazard warnings appropriate for employee protection.

It is the responsibility of the manufacturers and the distributors to supply the appropriate labels for the pesticides they sell. EPA approved pesticide labeling conforms to the rule.

Employers can post signs and placards with the hazard information within the work area if the containers have similar contents and hazards. Workers are not required to label portable pesticide service containers for immediate use.

3. Material Safety Data Sheets (MSDS) on pesticides in the work area (used or stored) must be available to all employees and they must know where these can be obtained from the office files in case of an emergency.

For additional information, contact your county extension office and ask for SARA Title III Law, FS 352; Pesticides Covered Under SARA Title III, FS 252; Complying with the OSHA Hazard Communication Standard, FS 350 and Pesticides and related chemicals covered under OSHA, FS 351.

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