

# THE GREENERSIDE

Vol. 9 No. 5

September–October 1986

## RALPH E. ENGEL

### *Retires After Forty Years at Rutgers University*

JIM GILLIGAN



In a career that spanned four decades, Ralph Engel persevered as an educator, scientist, and writer; contributing those skills to the continued development of the turfgrass industry in this state. His work in the classroom, in the laboratory, in the pages of respected agronomic journals is respected in the sphere of his contemporary educators.

\* \* \*

In 1947, he arrived in New Jersey with a master's degree in plant breeding from the University of Nebraska, later to receive a doctorate from Rutgers University. He could not have imagined the influence he was going to exert on his students and colleagues.

The Rutgers Winter Turf program came into existence in the winter of 1928–29, when a 5-day course was established to assist greenskeepers exchange ideas, learn new techniques, and listen to researchers. This 5-day program continued until it was suspended during World War II. After the war the program was re-established as a one-year program (ten-week duration), graduating its first class in the spring of 1946. There were nineteen graduates in that first class, among them Al Foster. In the second class of 1947, Alan Cruse graduated. The 1948 class was the first one that Dr. Engel taught in; it is rumored that one Arthur Elmers was among its top graduates. The one-year/ten-week program continued until 1962, when the program was extended over two winters and twenty weeks of instruction. The first two-year class graduated in 1963 and among its notable graduates was Bob Dickison. Dr. Engel has seen over 100 of his students become golf course superintendents in this tri-state region.

Dr. Engel in his classroom lectures always demonstrated a positive approach to turf management urging his students to continually experiment with methods of turfgrass culture, but always being conservative when making a permanent turf culture decision. He enhanced his classroom work by

exchanging with the students his thinking on new research projects he and his colleagues were involved with at Rutgers. His educational influence was not only felt by his students who continued their professional careers in turf management but also by the nine graduate trained men who are associated with other university programs as turf specialists in research, teaching, and extension.

Until his recent retirement, Dr. Engel chaired the education programs of the 3–5 Day Turf Seminars that evolved into the New Jersey Turfgrass Expo. Currently he chairs the Advanced Turf Seminar (2–3 day program) that provides an intense study of a single aspect of turfgrass culture.

\* \* \*

Dr. Engel's research work combined with the efforts of his students and colleagues contributed a vast knowledge of information to all realms of turfgrass culture. His work included studies of the effects of misting bentgrass and how this misting effected the root development of the plant. He experimented with all the methods of turf cultivation that were emerging as the demands of the game of golf increased the stress on the turfgrass plants. His work showed some theorized values are realized and some are not. "This is the basis for using turf cultivation for a purpose rather than a habit", said Dr. Engel.

In a lively discussion at lunch, Ralph offered a theory compatible with the current influx of fairway aerification programs. He feels that fairway bentgrass, given ample time to recover, might benefit from an aggressive cultivation program.

Plant breeding was an early interest of Dr. Engel and this proved rewarding because he began to make the first selections of a turf-type ryegrass. In 1948 he observed a patch of

*continued on page 6*



## THE GREENERSIDE

GCSANJ Newsletter is published six times a year by the Golf Course Superintendents Association of NJ, P.O. Box 231, New Brunswick, NJ 08903.

Jim Gilligan, *Editor*  
Bruce Cadenelli, *Associate Editor*  
Ed Walsh, *Editor Emeritus*  
Ken Kubik, *Special Projects*  
Paul Jordan, *Photographer*  
Jeff Allen, *Editorial Staff*  
Glenn Miller, *Editorial Staff*

Please address inquiries to the Editor,  
P.O. Box 143, Skillman, NJ 08558, 609-466-1820.

Art and Typography by BACKES—Graphic  
Productions, Hopewell, New Jersey

© 1986 The Greenerside

### GOLF COURSE SUPERINTENDENTS ASSOCIATION OF NEW JERSEY

Cook College—Rutgers University  
Box 231, New Brunswick, NJ 08903

#### Officers:

Bob Ribbans, CGCS, *President*  
Wayne Foster, *Vice President*  
Bob Matthews, CGCS, *Secretary*  
Wayne Ballinger, CGCS, *Treasurer*  
Bob Dickison, CGCS, *Past President*

#### Directors:

<b>District 1</b>	<b>District 3</b>
Jo-Ann Ward	Dave Pease
Joe Kennedy	Nat Binns
<b>District 2</b>	<b>District 4</b>
Jeff Drake	Tom Grimac
Dan McGlynn	Steve Malikowski

#### Executive Director:

Dr. Henry Indyk

Opinions expressed on this page are opinions of the authors and do not express the opinions or policies of the GCSANJ board and membership.

In 1986, The Greenerside will be published six times. The publication dates will be: Jan. 20th, March 20th, May 20th, July 20th, Sept. 20th, and Nov. 1st. Editorial copy deadlines will be twenty days prior to publication. Advertising copy (camera ready) will be due thirty days prior to publication.

Each issue will contain fourteen pages with a perforated page containing the Patron Directory and the Calendar.

## EDITORIALS

### IS IT TIME?

THE GCSANJ ANNUAL MEETING is scheduled for November 6, 1986 at the Hollywood Golf Club. The meeting is encumbered with reports of various officers, committee chairman, and district directors. Everyone who has contributed time and energy to the functions of the Association is acknowledged. Usually a routine exercise. A secondary matter, not always routine, is conducted at the meeting: the elections.

The nominating chairman, Bob Dickison, will present to the membership present a slate of candidates for the executive positions of the GCSANJ. District Directors having been elected at their respective district elections.

The slate usually runs unopposed. Why? Is the Association executive committee a hazardous area? It always seems to be avoided, occupied only by a fearless few. The GCSANJ executive committee and director positions offer an opportunity for a superintendent to add a valuable piece of experience to their career.

The GCSANJ functions each year, a ship dodging the hazards of a coastal journey, always steaming in shallow waters. The thought from this point is that we have the mechanism to achieve greater heights, but we have to aim higher.

Golf course superintendents by their nature and occupation are resilient, resourceful, and purposeful; these are attributes that could lead this association to new horizons. We cannot continue to exist in a vacuum, this business is too complex.

It may be idealistic to think that we could create programs that might provide support for superintendents in the area of economics, education, security, opportunities, training, and recognition. It will take some effort, fresh ideas, a little criticism, but the rewards would be gratifying.

The GCSANJ is entering new fields of influence in the golf industry, the regulatory arena, and the political field; be involved!

JIM GILLIGAN

### RALPH E. ENGEL

DR. RALPH E. ENGEL retired from Rutgers University this year almost forty years after coming to New Jersey from the University of Nebraska. His tenure in New Jersey at the State University is a milestone in the turfgrass history of this state. The Greenerside in a small way is commemorating this fine career by dedicating this issue to him for all contributions to the progress of the golf maintenance industry in New Jersey.

Congratulations, Ralph, we thank you and wish you well and continued good health in your active retirement.

JIM GILLIGAN

### IN THE AUTUMN OF THE YEAR

ARE WE HOME FREE? The summer days are widdling down to a precious few and on September 23rd we officially close down another turf management season.

Can we measure our success? The cool nights of late August and rainfall have restored some vigor into the weakened grass. At this time of the year it is difficult to recall the stressful days and nights of June, July, and early August.

This golf season played a tune on superintendents: many high and low notes. Unexpected weather patterns, inconsistent turf response, constant disease incidence (only partially hidden by chemical applications), and irregular rainfall. But then again is there ever an easy season? Maybe next year will bring joy to the hearts of superintendents, but for now they will have to settle for the beauty of the autumn season and the pleasure of the holiday season. Is there snow in our future?

JIM GILLIGAN



**RALPH MCGILLAN**

*Excavating Contractor*

**Specializing in  
Lakes & Ponds**

Over 25 years experience  
in building new ponds,  
enlarging & redesigning  
existing ponds

**(609) 655-2281**

17 Stockton Drive  
Cranbury, N.J.



**DAVENPORT  
Tree Service**

QUALITY  
SERVICE

FULLY  
INSURED

**JAMES DAVENPORT**

BS IN FORESTRY • U of MAINE  
• NJ CERTIFIED TREE EXPERT

**891-1764**

WYCKOFF, N.J.

# Willet Wilt says:



The autumn brings to mind a comparison that can be considered quite apt: that of the golf course superintendent and the football coach. On TV you see a harried coach pacing up and down the sidelines studying his eleven players on a 50 by 100 yard field. That doesn't seem as tough when you consider that the golf course superintendent is trying to manage his crew over 150 acres plus. At least the football coach can see his players. The golf course superintendent is lucky if he can find his.

The coach has eleven guys on the field plus at least thirty on the bench, while the golf course superintendent is praying that his assistant will show up on the weekend to change the pin placements and at least a portion of the crew will show up to mow the greens.

The football coach has a limited number of game days, whereas for the golf course superintendent practically every day is a game day—rain or shine.

Crew appearance must also be noted. The football coach has his team start out each game in clean uniforms, while the golf course superintendent's crew usually dresses as if they were going to be extras in "Rambo III."

The coach goes into a game hoping for a win; the golf course superintendent starts the day just praying for a tie. The coach hopes it doesn't snow, whereas the golf course superintendent says, "Let it fly!"

You also note that football players and golf course workers have a strong tendency to do a lot of grunting and groaning as they perform their respective tasks. On the football field, the teams line up on their respective forty yard lines and start the game. With this summer's golf course crews you were lucky if they found the course.

Another interesting attitude that must be noted is that the football coach wants a longer season and the golf course superintendent hopes for a shorter one.

An often asked question of the golf course superintendent and the football coach is why do they do what they do. The answer always is, "It's a dirty job, but somebody has to do it."

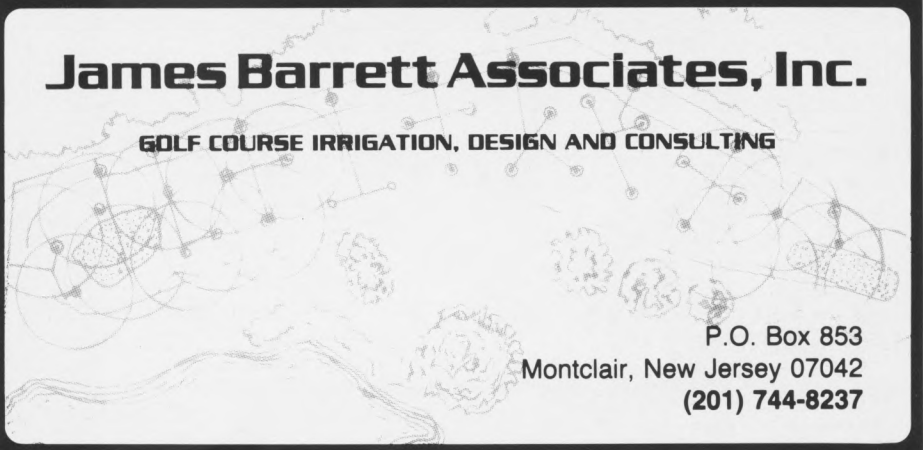
If you have any comments about this column or would like to purchase the new video board game, "The Jersey Superintendent Meets Godzilla," please get in contact with Ken Kubik, Mt. Freedom, NJ. ■

"True humor springs not more from the head than from the heart; it is not contempt, its essence is love; it issues not in laughter, but in still smiles, which lie far deeper."

Thomas Carlyle: J.P.F. Richter, 1827

**James Barrett Associates, Inc.**

**GOLF COURSE IRRIGATION, DESIGN AND CONSULTING**



P.O. Box 853  
Montclair, New Jersey 07042  
**(201) 744-8237**



## Nominations Are In!

**Bob Dickson**, GCSANJ Nominating Chairman, announced the selection of candidates for election at the Annual Meeting in November.

**Ed Walsh**, CGCS, Ridgewood CC received the nomination for president. **Bob Matthews**, CGCS, Deal G&CC, was nominated for vice-president. **Dave Pease**, Hominy Hill GC, was nominated for secretary. **Wayne Ballinger**, CGCS, Copper Hill CC, was re-nominated for treasurer.

There will be more from the candidates in our next issue, to be published November 1st.■

## GCSANJ 22nd Annual Field Day

The GCSANJ will be hosting their twenty-second Annual Equipment Field Day at the Rutgers Athletic Facility located on the Busch Campus. The date is October 7, 1986 and the festivities will begin about 10:00AM. Exhibitors from all facets of the turf industry will be there, displaying their products and providing information. Over ninety booths will be manned that day by representatives by local and national distributors. Demonstrations are given on the equipment on the Rutgers Golf Course, adjacent to the site. **Joe Spang**, Rutgers Superintendent, gra-

ciously turns over the seventh hole each year to the parade of mowers, aerifiers, sweepers, verti-cutters, blowers and more mowers that are demonstrated. Thanks, Joe.

**Wayne Ballinger**, Field Day Chairman, predicts this Field Day will leave no question unanswered or no piece of equipment idle!

The Greenside staff will be manning a booth in partnership with their parent organization, the GCSANJ.■

## Annual Championship—Navesink CC

**Larry Dodge** will be our host when GCSANJ conducts its championship at Navesink CC on Thursday, October 23. Larry, a 1976 graduate of Stockbridge School of Agriculture, is finishing up his second year as superintendent at Navesink. Before coming to Navesink Larry was superintendent at Madison GC.

Navesink is presently involved in a five year Master Plan for upgrading the golf course. The plan, developed in co-operation with architect Geoffrey Cornish, includes rebuilding bunkers, tee renovations, bulkheading work on ponds. Also, a new putting green has been constructed at the club.

An early afternoon shot-gun start is planned for the tournament. Get your group together and make plans to compete for the Sherwood Moore Cup.■

## Annual Meeting—Hollywood GC

Hollywood Golf Club will be our host for the annual meeting of GCSANJ on Thursday, November 6. The meeting is set for 10AM, with lunch to follow. Hollywood will again serve its fabulous buffet for lunch. Weather permitting, after lunch a nine hole scramble golf tournament is scheduled.

Mark your calendars now and plan to attend the Annual Meeting.■

# ROCKLAND

<b>INSECTICIDES</b> GRANULAR LIQUID WETTABLE POWDERS  <b>HERBICIDES</b> GRANULAR LIQUID SELECTIVE AND TOTAL	<b>FERTILIZERS</b> COMBINATIONS OF NITROFORM I.B.D.U. S.C.U. And WITH INSECTICIDES And PRE-EMERGENCE CRABGRASS KILLERS	<b>FUNGICIDES</b> GRANULAR FLOWABLE WETTABLE POWDERS	<b>O E S I T A L L</b>
---	---	---	--

Ask your supplier or write:  
**ROCKLAND**  
 CHEMICAL CO., INC.  
 © Passaic Ave., West Caldwell, N.J.

## BIG TREE NURSERY



We transplant large trees

Suppliers of large and small nursery stock. Large, medium, tree spades for hire.

[Mailing Address Only]  
 396 BRUNSWICK AVENUE  
 EAST BRUNSWICK, NJ 08816

**STAN LUBOWICKI • (201) 254-8834**

## PARTAC<sup>®</sup>

### GOLF COURSE TOP-DRESSING



### AMERICA'S PREMIUM TOP-DRESSING

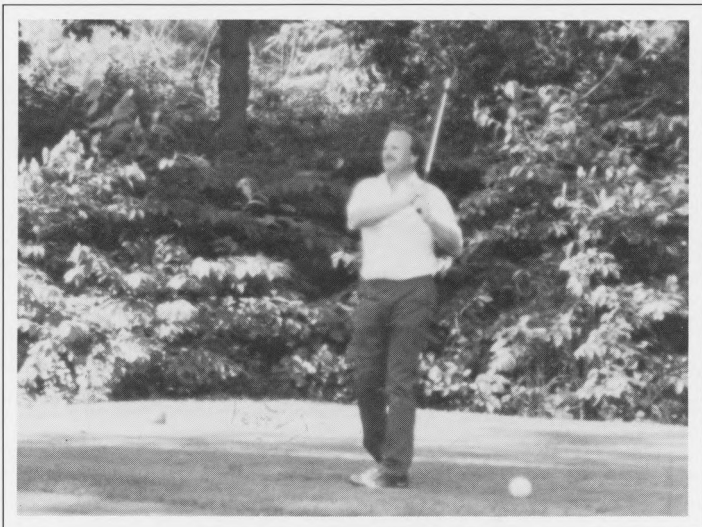
### HEAT TREATED

AVAILABLE IN BULK OR BAGS

DISTRIBUTED IN N.J. BY:

<b>FARM &amp; GOLF COURSE SUPPLY</b> HOWARD SCOTT, 215-483-5000
<b>FISHER &amp; SON CO.</b> FRANK FISHER, 215-644-3300
<b>GRASS ROOTS TURF PRODUCTS</b> KEN KUBIK, 201-361-5943
<b>GREEN HILL TURF SUPPLY</b> JIM ROACH, 201-938-7007
<b>PRO-LAWN PRODUCTS</b> ANDY MULICK, 201-967-9124 INGRID KERN, 215-750-1732
<b>TURF PRODUCTS CORP.</b> ERNIE RIZZIO, 201-263-1234





Shaun Barry off the 15th tee.

## Rockland

**Dave Herorian** hosted a joint meeting of the Hudson Valley and New Jersey chapters for a fine day of golf and dinner. The condition of the golf course impressed those who were able to make the trip across the border; they were treated to tournament conditions even though some have a problem breaking a 100! (You know we should play better golf, we are always on the course.)

Dave, a graduate of Stockbridge ('79) and the University of Massachusetts ('80) has been at Rockland CC for three years. He had been assistant golf course superintendent under **Ed Walsh** at Ridgewood CC.

**George Pierpoint**, Ardsly CC, White Plains, New York, presented a talk on the intricacies of irrigation system renovation and re-design.

On the golf course, **Mike Leo**, Millbrook CC, Greenwich, Conn. recorded the low net score. At press time the low gross winner's name and score were not available.■

## Bedens Brook

Potentially an August meeting can be disaster for the host superintendent. There should be a "hall of fame" for supers who host July and August meetings. If nothing else happens prior to the meeting the worry wears you out. The unexpected happened on the day of the meeting, it rained. Rainfall all year had been inconsistent at best and true to form a nor'easter blew into New Jersey that fateful day, four months too late. It only compounded the heavy rains we received in July and early August.

The show must go on! **Jim Gilligan**, host superintendent, kept the course opened and 66 hearty souls played through British Open conditions. The course played long and wet, but undaunted almost everyone finished and there were some winners. One of them, **Terry Stanley** preparing for his defense of the GCSANJ golf championship led the field with a 77. In addition to Terry leading with low gross, **Shaun Barry** was low net with 71. **John Wantz** also shot a net score of 71 but Shaun beat him on a match of cards. **Ed Kutt** was closest to the pin on #2 and **Armnd LeSage** was closest to the pin on #13. The longest drive on #18 belong to **Jeff Wetterling**.

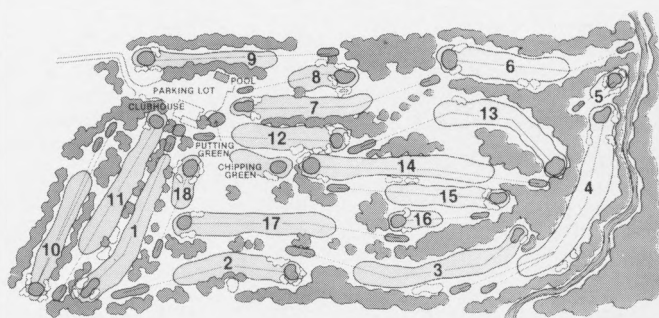
Since this was the scene of the District Championship, District III took home all the honors. Gross scores of the winning team were: Terry Stanley-77; Shaun Barry-79; Larry Dodge-83; Ed Kutt-85; Fran Owisk-86; and Bill Nist-86.■

## GCSANJ '86 Invitational

The 1986 GCSANJ Invitational will be played at the A.W. Tillinghast designed Forest Hill Field Club, Bloomfield, NJ. **Jeff Wetterling**, CGCS, host superintendent promises a competitive day on the course. The golf course has retained most of Tillinghast's design, though a new green has been constructed on the par five, third hole. The hole has been lengthened sixty yards, making it a quality par five of 523 yds. from the white markers. The mature course has tight driving holes that put an emphasis on tee ball placement, followed by soft approach shots to the greens.

Breaking away from the traditional sit-down dinner, Jeff and his manager have created a distinctive dining experience. Station tables will be laden with iced seafood, roasted beef carved to your taste, varieties of delicious pasta coupled with tasty sauces, stir-fried oriental vegetables and all this with passed hors d'oeuvres.■

### Forest Hill Field Club



### THE BEST NAMES IN TURF CARE

**JACOBSEN**

**GIANT-VAC**

**SMITHCO**

**FMC**

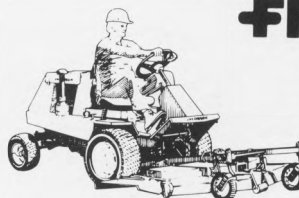


**National**

**E-Z-GO**

**GRAVELY**

**Perkins**



**JEP**

**Sales Inc.**

211 Yardville-Hamilton Square Rd.  
P. O. Box 11126  
Yardville, New Jersey 08620  
609-585-2300

**Specialists in Turf Maintenance Equipment**

## RALPH ENGEL RETIRES

(continued from page 1)

ryegrass on the 18th fairway of the Colonia Country Club and collected this sample and other types from different fairways. This selection was used in the research leading to the development of Manhattan ryegrass. The Colonia selection was eventually rejected because of its disease susceptibility. The Central Park selections became the major ingredients in the development of Manhattan ryegrass. Dr. Engel presented a paper "The Turf-Type Ryegrasses on Fairways" at the 1980 New Jersey Turfgrass Expo. In the paper he outlines the development of turf-type ryegrasses, their advantages, their problems and their establishment and culture.

In the field of herbicides he began the first studies and subsequent publication of the data on the proper application timing of pre-emerge crabgrass and goosegrass herbicides. In his continued work with goosegrass he was able to determine germination temperatures and seeding habits of goosegrass.

His studies of bentgrass germination habits revealed that bentgrasses germinate at higher temperatures than annual bluegrass. "This is the basis for attempting to start bentgrasses in late summer ahead of annual bluegrass in renovation programs", quoted Dr. Engel. In conjunction with the germination studies he determined that late summer and early fall vertical mowing practices are conducive to annual bluegrass encroachment into bentgrass turf. "Keep cultivation to a minimum in the late season", advises Dr. Engel. Another suggestion from Dr. Engel is to keep annual bluegrass in check, is to use a dormant fertilizer program with urea; this will have a depressing effect on annual bluegrass as compared with a slow release nitrogen carrier.

Dr. Engel was a co-worker with Dr. Reed Funk and Dr. Phil Halisky in the registration of Manhattan Perennial Ryegrass which was released in 1967. He was also a co-worker on the registration

of Bonnieblue Kentucky Bluegrass and Sabre Roughstalk Bluegrass (*Poa trivialis* L.).

Specifically Dr. Engel was one of the first people to recognize the importance of phosphorus levels low to suppress annual bluegrass. From his work in the laboratory he alerted superintendents to the danger of root damage from pre-emergent herbicides. In the field and from trials at the turf plots he demonstrated that cultivation and topdressing were the most useful techniques in reducing thatch accumulation.

His experience and accomplishments in the field of turfgrass research are well documented in many agronomic journals.

To continue our trivial pursuit of Manhattan, it is sixteen clone variety with nine of the clones coming from an old turf area in Central Park, which is located in New York City. The other seven clones were selected from a turf nursery at Rutgers; these seven clones can trace their maternal parents to the plants originally selected from Central Park. The Rutgers experimental designation of Manhattan was Rutgers Syn M.

Dr. Engel's writings have appeared in Golf Course Management (and its predecessors); golf association journals; golf orientated publications; he is the editor of "Green World" a publication of the New Jersey Turfgrass Association; he has prepared numerous articles for the New Jersey State Golf Association, these articles were supportive of golf course superintendents in time of crisis. He authored a portion of *Turfgrass Science* (American Society of Agronomy); he authored a section of the 1972 *Yearbook of Agriculture* (United States Department of Agriculture). He also authored a report to the Environmental Protection Agency entitled "Silvex Use on Turf".

\* \* \*

Dr. Engel had a simple philosophy when called upon to assist a golf course superintendent through a difficult time: "think through the problem with the knowledge that is available." Throughout his career he must have visited most golf courses in the state to assist the superintendents with some important advice. His advice must be taken seriously, since it comes from years of research and involvement with other turf researchers throughout the country. His continuing work with superintendents gives him first hand knowledge of what the current problems are and offer what the solutions might be. His experience in assisting superintendents began with the forerunner of the current service provided by the USGA Green Section; it was visiting service for the New Jersey State Golf Association, but it was phased out when the USGA established theirs.

Ralph is a honorary member of the GCSANJ, a honor well deserved for his contributions to the Association and its membership through the years. There is no formal record of his attendance at meetings or gatherings but he is always available for that small bit of advice that can be important to a superintendent. In his relationship with the New Jersey State Golf Association he has supported superintendents through his writings; he changed procedures at their annual meeting to allow the host superintendent and GCSANJ president to participate.

His presence at the college will be missed, but as stated earlier he is looking forward to an active retirement. If a suggestion is made that a visit to a golf course is imminent he will probably welcome the chance to visit and make a few subtle suggestions. If it is only the exchange of ideas and opinions; his presence is valuable. ■

*The GCSANJ and The Greenside are honored to commemorate this issue to the career of Ralph E. Engel, Research Professor in Turf Management, Cook College, Rutgers University, Retired.*

The investigation of nature is an infinite pasture-ground, where all may graze, and where the more bite, the longer the grass grows, the sweeter is its flavor, and the more it nourishes.

T.H. Huxley, 1871

## Liquids are the Future!

### PFC offers you:

- **Our High Quality Liquid Fertilizers** in many formulations, including clear liquids and suspensions.
- **Custom Formulations**, based on soil testing results.
- **Our Applications**. Minor elements and herbicides mix with liquid fertilizers—to save trips across the field.
- **PFC's** own delivery trucks insure delivery of products when you need them.
- High Calcium Limestone, High Magnesium Limestone and our new product **Liquid Limestone**. Limestone helps you get your money's worth from the fertilizer and herbicides applied. The dry pulverized limestones are applied through our "Chain-driven, boom-type" lime applicator trucks.
- The complete line of **Stanford Seed**.

**PFC has been in business for over 35 years.**  
**Please contact us for your Turf needs.**



**PLANT FOOD CHEMICAL COMPANY, INC.**

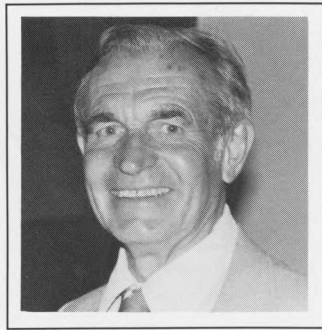
609-448-0935

Hightstown-Cranbury Station Road, Box 173, Cranbury, NJ 08512



# Ralph E. Engel, A Friend

SHERWOOD A. MOORE



Dr. Ralph E. Engel has been in the New Jersey area for many years, arriving at Rutgers in 1947. He is a familiar person to all turfgrowers and, although a quiet and somewhat reserved individual, he is a close friend to many of us.

During the first several years of Ralph's tenure in New Jersey, he wore many hats—being a teacher, researcher and extension specialist.

The Field Days held on the turf plots of the College of Agriculture at Rutgers University were a must for the aspiring golf course superintendent and other turf managers. You were assured of a busy and full day viewing the research work accomplished by Dr. Engel, along with his co-workers of pathologists, entomologists, plant breeders, etc. In "the good old days" the Field Day was terminated at a nearby restaurant to further discuss the problems of the day and to moan of "the terrible season" or to rejoice in that "all in all it has not been too bad."

Ralph was never one to jump on the bandwagon or go off the deep end because of some other findings or research being done at a neighboring State University. He had to see and prove to himself before he would recommend the results to a turfman. I often accused Ralph of being very evasive in some of his answers to inquiries. Actually I believe he did not want anyone's position to be in jeopardy because of some recommendations he might have made. He was always very careful in his remarks and recommendations. The jobs that he saved were never publicized nor bragged about, but you can be sure that there were many. No one has ever known him to speak ill of a fellow worker or golf course superintendent.

Under Ralph's tutorage the one-week Winter School in Turf Management was continued and became a famous winter conference. He was always an active participant in the program—organizing and even participating in the educational portion. This turf conference eventually evolved into the "Jersey Expo." The two-year Short Course in Turf Management was organized during Ralph's tenure and has now become one of the leading schools of the country. Its enrollment quota has always been full to overflowing, attracting students from all across the country. Not being satisfied with that, Dr. Engel in recent years, has had an additional Advance Study Seminar concentrating on a particular phase or topic of turf management.

Ralph has been a regular attendee at the Jersey monthly meetings, besides those of neighboring associations. Whenever asked to be the guest speaker for one of these affairs he never declined—always ready to impart some of his latest knowledge or research to us.

One cannot talk of Ralph and grass and trees without mentioning his game of golf. Although he is no Jack Nicholas he loves the game of golf and will play at every opportunity. Just do not place heavy wagers when playing with him, for his spectacular recoveries will amaze you. We hope, Ralph, that now you are retired, you will visit your many friends and see and play more golf courses than ever.

I consider it a distinct pleasure and privilege to have known and to have been a personal friend of Ralph Engel over these many years and there is no question that he has been a great influence in my life.■

# Ralph Engel, Mentor

DENNIS DeSANCTIS



It was January 1975 when I first met Ralph Engel at the Rutgers Winter Turf School. Of course,

I was impressed meeting the Professor I had heard so much about over the years: Easy going, mild mannered, faster than a speeding poa plant . . . He would always keep the Friday afternoon Turf class until 4:00pm (no early dismissal!!!). Boy, did that man love TURF!!

I had the unique experience of being the only student to show up to play golf with him that Spring (February) at a local Golf Course! I was occupying my mind with the thoughts of keeping warm, enjoying his unorthodox swing, and wondering why a man like this would want to play golf under these conditions. Ralph was talking Turf from the first Tee to the last cup on 18. Head Down, he spoke Ryegrass, Pre-emerge, Cation Exchange, Dandelion control, Low 'N' programs, and on, and on, and on . . . My conclusion then—This man loves what he is doing! My conclusion today—This man loves TURF, always did, always will! To me, that's Dr. Engel in a nutshell: a man who enjoys what he is doing; a man who is very proud of his work (and rightfully so); a man who wants all of us to continue to work in this Industry making it grow into what vistas we could never imagine possible.

Thanks Doc! You've taught us more than Turfgrass Science over the years—you've taught us that *if we appreciate* what we are doing then Life is an enjoyable experience.■



**CONTACT  
BILL RAPP**  
at

Steven Willand, Inc.  
321 Fairfield Road  
Fairfield, NJ 07006  
**(201) 227-5612**

# Walsh's Thoughts



In typical Ed Walsh fashion, I have "opened mouth-inserted foot" again. Some years ago, I was critical of our State Association's newsletter. I criticized its consistency and production schedule. A few years later I questioned why we no longer scheduled in Invitational Tournament.

I may have gone a bit overboard this time criticizing the productivity and direction of our state Association, but con-

sistent with my past experiences, I have made the commitment to try and improve this situation. I will be a candidate for the office of presidency at our up-coming annual meeting. I will make the same commitment I did to the newsletter and to our Invitational, to this office. My main goal will be an involved membership with positive goals.

I have never felt the office of president was a one-man job. Although, only one person is placed in that position, it is every Board member and Association member's responsibility to take an active role if our association is to grow. In my past experiences I have always surrounded myself with competent, enthusiastic, hardworking individuals. The success of our newsletter and Invitational were a result of presidency. I will make the same commitment to the GCSANJ presidency. I will surround myself with Association members who believe our Association can move forward with well-defined goals.

It seems one of the major problems experienced in the past few years was that of researching a quorum at Board meetings.

I feel that problem is a direct result of an Association without strong goals. Members and particularly Board members have to feel a sense of responsibility toward a positive direction if their continued interest and dedication are to be anticipated. If only one or two Board members neglect their obligations, it often has a very negative effect on the entire group. We will try to allocate responsibilities consistent with the particular individual's available time. I will not ask someone to get involved in an area that he or she feels uncomfortable with or he or she does not feel has the time to allow to successfully deal with that obligation.

We have not accepted the responsibility of being the force in the golf community in the State of New Jersey that we should be. I will ask each and every Board member and each and every Association member to take an active part in our growth. If we each do our job, we will obtain the recognition our profession deserves. I ask for your support. I ask for your ideas. I'll expect your commitment and cooperation.■

## University of Maryland Research Field Day

The University of Maryland hosted their first research and equipment field day at their new Research and Educational Facility in Silver Spring, Maryland on August 6, 1986. Included in the festivities was the dedication of the new facility. Notables from industry, education, and government were there to launch the facility.

This superintendent journeyed south to educate himself and visit with friends from an area known to be tough on golf course superintendents. This year was no exception. Maryland felt the effects of the severe drought that paralyzed the southeastern states.

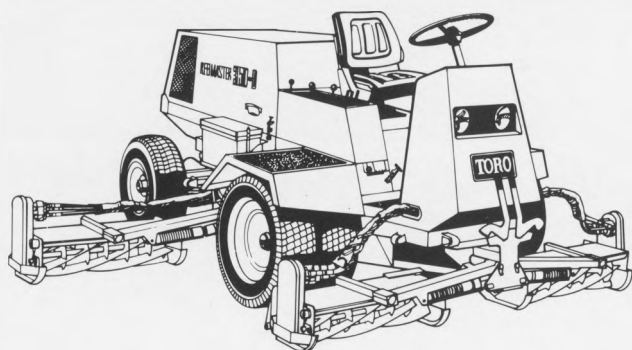
The research plots at the facility are about one year old. The work being done there is a cooperative effort of university faculty, extension personnel, and industry cooperators including golf course superintendents. The program covers a broad spectrum of turfgrass concerns.

The tour of the research plots included trials in: post and pre-emergent crabgrass herbicides, with one particular study mixing Acclaim with a pre-emergent to prevent the re-infestation of crabgrass; another test included the newer pre-emergent herbicides—Lesco Pre-M60 WDG, Scott's Pendimethalin 1.7G, Pro-diamine 60 WDG, Team 28 DP, Team 2G, Dacthal 75W, and Prime 1.2. Not to be forgotten was the popular "check plot" or "untreated". There was a study on the effects of flurprimidol (Cut-less) on close cut bentgrass turf. Coupled with the Acclaim work was a study of its effect on creeping bentgrass. Another test was the sensitivity of bentgrass to Annual Bluegrass herbicides including prodiamine 60 DG, Pendimethalin 60 DG, Dicofof 3 EC, and Oxadiazon 2G. In addition to these trials there were ryegrass, Kentucky bluegrass, tall fescue, fine fescue, zoysia, and Bermuda grass evaluations.

Disease trials included: brown patch on ryegrass, stripe smut on Merion and summer patch fungicide trial. There were some preliminary work with plant growth regulators and their effect on fine turfgrass.■

J.F.G.

## Keep on Cutting with the Reelmaster® 350-D.



You need a stable machine when you're tackling tough terrain. On bumpy ground. On steep hillsides. Around obstacles. Through dense, wet grass. You need the 5 or 7 bladed Reelmaster® 350-D. Its mid-mounted engine and wide stance create a low center of gravity. And its even weight distribution and six oversized 4-ply tires keep you cutting even on hillsides. See the Toro distributor below for details.

**STORR TRACTOR CO.**  
Somerville, NJ 08876  
201-722-9830







## Roughly Speaking

Well, it seems that the winds of change are blowing across our association. In the next few weeks a very interesting slate of individuals will be nominated to lead our group for the next twelve months. Long time member of, worker for, and critic of GCSANJ, Ed Walsh will be the man at the helm. His leadership will at various times both inspire and infuriate various segments of our association. I suspect a great deal of healthy debate will occur during the next year as to the purpose of and future direction for GCSANJ. I think our association for too long has operated out of habit; carrying on simply out of past traditions. We are at a point where the association must reevaluate and revitalize all aspects of its operations. We need to seriously question our policies and procedures; not as a means of finding fault with or placing blame on individuals, but as a means to better serve the needs of our membership. Is that not the purpose of all professional associations? It's wise and healthy from time to time to take an introspective look within and see where improvements can be made.

Yes, exciting times indeed! But Ed and his fellow supporters must realize that it's put up or shut up time. To say you can run the association better is one thing, to deliver quite another. Improvements won't come with just a few people participating in the operation of the association. All members need to make the time from their schedules and work to make GCSANJ the truly dynamic local chapter it should be. We have a wealth of talent that is not being fully utilized. Think about your involvement with GCSANJ and consider what your future contributions will be. Ed and his fellow officers both need and want your support and active involvement with our association. 1987 could very well be a year to remember! ■

B.E.C.

## University of Rhode Island Field Day

The University of Rhode Island held its 55th Annual Turfgrass Research Field Day on Wednesday, August 20th. Approximately 500 people attended the day. Interesting research highlighted included the evaluation of nematocide/fungicide interactions, nitrate leaching from turfgrass sod, sweet vernal research and development, comparison of full and reduced-rate fungicide combinations for disease control, and the evaluation of growth retardant and fungicide combinations for disease incidence and severity.

Since nematodes seem to be causing severe problems on many courses this year Dr. Pat Vittum of Univ. of Mass. was given some time to speak on the work she is doing to better understand this problem and to see if nematodes are really causing the turf loss. As we all know from growing fine turf, so many factors interrelate that nematodes are just one more factor in the equation.

Dr. Noel Jackson stated that a major problem on green's management is the superintendents overmanagement of greens. Mowing too low, too little nitrogen, and sand topdressing, he feels, will one day get us all in trouble. Dr. Jackson believes we are not giving the turfgrass enough chance to thrive; our management practices are inducing additional stress which is showing up on greens as a number of new diseases and disorders. ■

B.E.C.

Education is the leading human souls to what is best, and making what is best out of them; and these two objects are always attainable together, and by the same means; the training which makes men happiest in themselves also makes them most serviceable to others.

John Ruskin: Stones of Venice, III, 1853

### WE CAN HELP YOU GROW

# better quality turf

**Jonathan Green** stocks more bluegrass, fine textured ryegrass and turf-type tall fescue varieties than any other seed house in the mid-atlantic and eastern states.

**Jonathan Green** stocks an entire range of insecticides, herbicides, fertilizers and specialty turf products for professional lawn services, golf courses, municipalities, sod growers, hydro-seeders and all landscape contractors.

**Jonathan Green** provides you with product information, custom turf care programs and prompt knowledgeable attention to your particular turf problems...large or small.



CALL **Jonathan Green**  
FOR THE FASTEST SERVICE IN THE EAST

**JIM ROACH: 201-462-2349**

## Jonathan Green

FARMINGDALE, NEW JERSEY 07727

IN NEW JERSEY 201-938-7007 OUT OF STATE 1-800-526-2303

# Aqua-FL Inc.

## Irrigation Systems Designers and Suppliers

### Buckner

DISTRIBUTORS

GOLF COURSES

COMMERCIAL

ESTATES

ATHLETIC FIELDS

CUSTOM BUILT PUMPING SYSTEMS

25 YEARS OF QUALITY SERVICE

Aqua-Flo Inc.  
P.O. Box 454  
HAMMONTON, N.J. 08037

N.J. (609) 561-1777  
800/524-0895

# BACK



## Names in the News

**Art Elmers** announced his retirement from Preakness Hills in Wayne, NJ.

**Joe Schoen**, Forsgate CC, resigned to enter a private business endeavor.

**Bob Ribbans**, Fairmount CC, will succeed Joe Schoen at Forsgate CC. Bob is president of the GCSANJ.

"**Duke Polidor**", Madison GC, moves across town to handle the reins at Fairmount CC, filling the shoes of **Bob Ribbans**.

Earlier this season **Wayne Ballinger** moved from Glenwood CC to Copper Hill CC succeeding John Fenwick.

**Tom Zurcher** had succeeded **Wayne Ballinger** at Glenwood CC.

**Steve Cadenelli** and **Jim Gilligan** traveled to Lawrence, Kansas to attend a meeting of the GCSAA Communication/Awards Committee. Steve is chairman of the committee.

## Looking for Representatives

Vaughan's, at the present time, are looking for one or two sales service type representatives to work with our grass seed department. It is our intention to improve our service to Garden Centers, Sod Growers and other Lawn care people by hiring inhouse representative to make phone contact as well as to make personal visits with the intent of servicing our customers needs in the Turf industry. Please call Lawrence J. MacLeod at 1-800-942-7706.

## New Faces of '86

**Maureen** and **Nat Binns** are the proud parents of Colleen Farrington Binns born this summer. Colleen joins her brother Nat, Jr. to keep Nat, Sr. and Maureen busy.

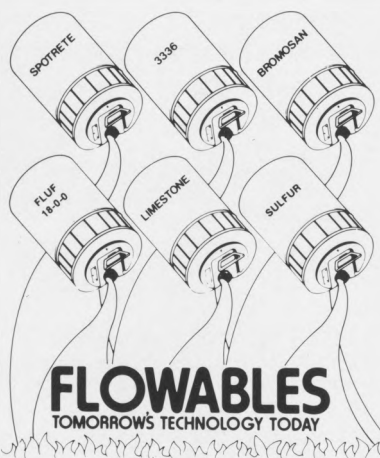
In **Gayle** and **Bob Dwyers'** household a new face appeared this summer, Joseph Christofer who was born to his happy parents weighing in at a healthy 12 lbs. 2 oz. Joseph enters a family of six sisters and brothers: Erin, Bobby, Mary, Beth Anne, Michael, and Katie.

## Support Turfgrass Research

## WEATHER

In our last issue we brought you precipitation information for April and May. Now it is September and we are offering you precipitation and temperatures for June, July and August. This information is courtesy of Keith Arnesen, Agricultural Meteorologist at Cook College.

STATIONS	PRECIPITATION (actual/% of normal) (inches)			AVERAGE TEMP. (actual/depart. from normal) (°F)		
	JUNE	JULY	AUGUST	JUNE	JULY	AUGUST
Newton	5.66/144%	4.71/114%	3.50/73%	64.5/-2.0	70.4/-0.7	66.4/-2.9
Charlotteburg	4.05/97%	5.36/127%	5.05/101%	64.9/-0.3	70.7/-0.7	67.3/-1.1
Canoe Brook	2.99/79%	3.97/93%	5.56/113%	67.5/-0.6	72.6/-0.7	69.5/-2.2
New Brunswick	1.08/33%	4.34/99%	3.05/62%	69.9/+0.2	74.5/-0.2	70.6/-2.7
Freehold	1.13/33%	7.20/178%	3.13/67%	70.5/+1.0	74.7/+0.5	71.6/-1.3
Hammonton	3.51/100%	3.61/79%	2.66/58%	72.2/+1.3	76.1/+0.3	71.5/-3.0
Pomona	2.47/89%	4.50/112%	3.35/71%	71.7/+2.5	75.0/0.6	72.5/-0.5



**WACLEARY CHEMICAL**  
CORPORATION

(201) 247-8000

1049 Somerset Street,  
Somerset, NJ 08873



WHITE MARSH, MD.

## Sterilized Top Dressing

**EGYPT FARMS EXCLUSIVE!** All top dressing ingredients are thoroughly mixed and sterilized by indirect heat in our special process. The sand particles are actually coated with a mixture of top soil and peat humus for a completely homogenous mixture that will not separate during handling and spreading.

**301-335-3700** Egypt Farms top dressing is formulated especially for the transition zone to specifications recommended by the United States Golf Association, Texas A&M, Penn State, North Carolina, and the University of Maryland.

Many years of research and testing by these leading universities have produced a soil mixture for superior growth; to maintain the best balance of percolation; to resist compaction; for good aeration; and for the retention of usable water and nutrients in the growing medium.

\*Green and tee construction materials & mixes conforming to U.S.G.A. specs are also available.

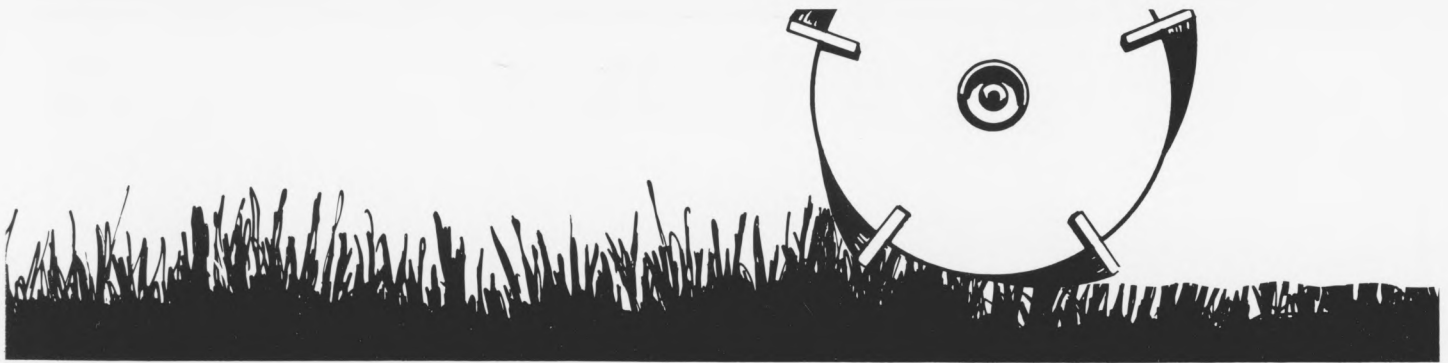
Distributed by

**Metro-Milorganite, Inc.**  
(914) 769-7600

**The Terre Co.**  
(201) 473-3393

**Wagner Seed Co., Inc.**  
(516) 293-6312





## Local Rules

From the Farm Neck Golf Club on Martha's Vineyard comes these interesting local rules:

- No electric carts are allowed in roughs or within ten yards of greens. Carts are allowed on cart paths and fairways only.
- Ball in the ocean is considered lost.
- Any ball moved or stolen by seagulls should be moved back to or replaced at the original lie.

## Company Issues Daconil Statement

"Recent media coverage has wrongfully implicated Daconil 2787 fungicide as the cause of the tragic death of Navy Lt. George Prior, in September, 1982," according to E.R. Sabala, manager, corporate communications, Fermenta Plant Protection Company, Painesville, Ohio

"Daconil 2787 was not the cause of Lieutenant Prior's death," states Sabala.

"Lieutenant Prior died from toxic epiderman necrolysis (TEN), a condition not associated with Daconil 2787," according to Sabala.

"The news media's association of Daconil 2787 with Lieutenant Prior's death is without merit," declares Sabala, "and this will be clearly and unequivocally demonstrated in court." *GCSAA Newsline*

## Alliance for Environmental Concerns

The Alliance's annual meeting has been scheduled for Thursday, November 13, 1986 at the Forsgate Country Club. The theme is "Pesticide Safety"; Recertification credits will be offered to participants. Further details contact Ilona, F. Gray (201) 595-7172.

### CORE AND CATEGORY TEST DATES AND LOCATIONS FOR 1986

LOCATION	DATE	LOCATION	DATE
Atlantic County Extension Service 1200 West Harding Highway Mays Landing, NJ	Oct. 16	NJ Dept. of Env. Protection Bureau of Pesticide Control 380 Scotch Road West Trenton, NJ	Oct. 7
Camden County Extension Service 152 Ohio Avenue Clementon, NJ	Oct. 29	Sussex County Extension Service St. Paul's Abbey (Rt. 206) South of Newton, NJ	Oct. 27
Monmouth County Extension Serv. 20 Court Street Freehold, NJ	Oct. 21	Union County Extension Service 300 North Avenue East Westfield, NJ	Oct. 22

TEST SIGN-UP NUMBER IS: (609) 530-4133

### NEW JERSEY TURFGRASS

## EXPO '86

The Annual Turfgrass Educational Conference and Trade Show, sponsored by the Cooperative Extension Service in cooperation with Cook College - Rutgers University and the New Jersey Turfgrass Association offers more in '86. Sessions will include: Workshops (Computers, Irrigation, Design, Ornamental Diseases, Stress, Financial Planning) and lectures by recognized authorities on the establishment and maintenance of turf on golf courses, athletic fields, lawns of various types and use of sod. The Trade Show will feature the latest technology in turfgrass equipment, irrigation and products. Credits for applicator recertification offered.

Reserve the date, plan to attend and participate in this exciting annual Turfgrass Conference. Complete program details and registration forms available October 1, 1986.

For information contact:

Dr. Henry W. Indyk  
General Chairman  
Extension Specialist in  
Turfgrass Management  
Soils & Crops Dept.  
Cook College -  
P.O. Box 231  
New Brunswick,  
N.J. 08903  
(201) 932-9453

Resorts International  
Atlantic City, New Jersey  
December 1-4, 1986



"I'M NOT SO SURE THIS SAND TOPDRESSING IS GOING TO WORK OUT!"

R.J.D.



## Golf Course Superintendents Association of New Jersey

EVENT	DATE	LOCATION	HOST
GCSANJ Invitational	October 2	Forest Hill Field Club	Jeff Wetterling
GCSANJ Field Day	October 7	Rutgers Athletic Facility	Dr. Henry Indyk (201) 932-9453
MET Area Team Championship	October 10	Oak Lane Country Club Woodbridge, Conn.	Les Kennedy, Jr.
GCSANJ Championship	October 23	Navesink Country Club Middletown, NJ	Larry Dodge
GCSANJ Annual Meeting	November 6	Hollywood Golf Club Deal, NJ	Bruce Cadenelli
Penn State Turf Conference	November 10-12	University Park, PA	Dr. Joseph Duitch (814) 865-9853
New York Turf Conference	November 11-14	Rochester, NY	Ann Rielly (516) 541-6902
New Jersey Turfgrass Expo '86	December 1-4	Atlantic City, NJ	Dr. Henry Indyk (201) 932-9453
GCSAA Seminar- Disease Identification and Control	December 11-12	Seekonk, Mass.	Betsy Evans - GCSAA (913) 841-2240
GCSAA Conference	January 26- February 2, 1987	Phoenix, AZ	GCSAA Headquarters (913) 841-2240

### FUTURE EVENTS

**January 6-7, 1987**—Connecticut and Metropolitan Golf Course Superintendents Seminar at the Tappan Zee Motor Inn

**February 1987**—GCSAA Seminar Golf Course Construction & Project Management, Albany, N.Y.

**April, 1987**—GCSAA Seminar Environmental Issues, Cape Cod, Mass.



# THE GREENERSIDE

## PATRON DIRECTORY

### ALPINE TREE CARE, INC.

Complete tree care  
Robert Mullane – David DiBenedetto  
(914) 948-0101

### AMERICAN TENNIS & TRACK, INC.

Tennis Courts — Repair and Const.  
Jim Snagusk  
(201) 778-1171

### ARTESIAN PUMPING SYSTEMS

Irrigation Pumps and Repairs  
Graham Every  
(201) 845-7080

### AQUATROLS CORP. OF AMERICA

Manufacturers of Water Management Products  
Andy Moore – Jerry Curtice – Demie Powell  
(609) 665-1130

### JAMES BARRETT ASSOCIATES, INC.

Golf Course Irrigation — Design and Consulting  
Jim Barrett  
(201) 744-8237

### ★BIG TREE NURSERY

Tree Spades for Hire; Suppliers of Nursery Stock  
Stan Lubowicki  
(201) 254-8834

### BLUE RIDGE PEAT FARMS, INC.

Top Dressing, Peat, Humus, & Potting Soil  
Gene Evans  
(717) 443-9596

### BRUEDAN CORPORATION

Golf Cars, Turf and Utility Vehicles  
Richard Lewis  
(800) 535-1500 (914) 469-2275

### BUNTON TURF PRODUCTS

Turfgrass Equipment  
Phil Mowery – Stan Stevenson – Dave Walter  
(609) 799-4101

### W.A. CLEARY CHEMICAL CORP.

Turfgrass Chemicals  
Barbara Cleary  
(201) 247-8000

### CONSOLIDATED STEEL & ALUMINUM

FENCE CO., INC. Fencing Contractor  
Eugene T. McLaughlin  
(201) 272-6262

### ALAN G. CRUSE INC.

Golf Course Materials  
Alan G. Cruse  
(201) 227-7183

### DAVENPORT TREE SERVICE

Tree Service  
James A. Davenport – John D. Schaus  
(201) 891-1764

### DOUBLE EAGLE EQUIPMENT

Turf Maintenance Equipment  
Clyde Ashton – Jerry Pearlman  
(201) 329-9292

### EGYPT FARMS, INC.

Top Dressing Supplier  
John Strickland – Rich Piatnek  
(301) 335-3700

### FERTL-SOIL TURF SUPPLY, INC.

Greens Topdressing/Turf Supplies  
Marty Futyma  
(201) 388-0100

### GOLF BY JANIS INC.

Golf Course Construction, Renovation, Irrigation  
Al Janis  
(301) 641-8156

### VIC GERARD GOLF CARS, INC.

Golf & Utility Vehicles; Battery Whse. Dist.  
Vic Gerard  
(201) 938-4464

### ★GOLF CARS, INC.

Golf Cars, Turf and Utility Vehicles  
Albert Wunsch – Luke Martin – Sam Baird, Jr.  
(215) 249-0414

### GRASS ROOTS TURF PRODUCTS, INC.

Golf Course Supplies  
Ken Kubik – Bert Jones  
(201) 361-5943

### JEP SALES, INC.

Turf Maintenance Equipment  
Jack Poksay – Peter McCormick – John D. Fenwick  
(609) 585-2300

### ★JONATHAN GREEN INC.

Grass Seed, Fertilizer, and Turf Chemicals  
Barry K. Green II – Jim Roach – Rip Rippel  
(201) 938-7007

### ★HARFORD INDUSTRIAL MINERALS

Sands, Top Dressing Materials  
Jack Montecalvo  
(609) 965-3414

### REES JONES, INC.

Golf Course Design  
Rees Jones, President  
(201) 744-4031

### KOONZ SPRINKLER SUPPLY COMPANY

Rainbird Irrigation Equipment  
William Koonz  
(201) 379-9313

### LESCO, INC.

For all your golf course needs  
(800) 321-5325

### LEBANON CHEMICAL CORP.

Country Club Fertilizers & Chemicals  
Bill Nist  
(201) 329-4011

### LEON'S SOD FARM

Sod Grower  
Samuel Leon – Irene Leon  
(201) 996-2255

### LOFTS INC.

Turf Seed and Fertilizer Supplier  
Dr. Rich Hurley  
(201) 560-1590

### LONGO MOTOR & PUMP, INC.

Electric motor/pump repair/sales  
Larry Bishop  
(201) 539-4141

### MALLINCKRODT, INC.

Turfgrass Chemicals  
John Magnus  
(609) 654-0476

### WILFRED McDONALD, INC.

Turf Maintenance Equipment  
Dennis DeSanctis – Ed Rockhill – Bill Luthin  
(201) 471-0244

### METRO MILORGANITE, INC.

Turfgrass Supplies  
Tony Grasso – John Wistrand  
(914) 769-7600

### MONTCO PRODUCTS CORPORATION

Turfgrass Chemicals  
Robert Oechsle  
(215) 628-3144 (215) 836-4992

### MOUNTAIN TURF PRODUCTS

Turfgrass Supplies  
Richard Grant  
(717) 646-7220

### ★NOR-AM CHEMICAL CO.

Chemical/Fertilizer Manufacturer  
Jeff Johnson  
(302) 737-8598

### PARTAC PEAT CORPORATION

Golf Course Top-Dressing  
Jim Kelsey  
(201) 637-4631

### POCONO TURF SUPPLY CO.

Turf Supplies  
Ron Olsen  
(215) 672-9274

### PRO LAWN TURF PRODUCTS

Services for the Professional  
Andrew Mulick (201) 967-9124  
Ingrid A. Kern (215) 750-1732

### ROCKLAND CHEMICAL CO., INC.

Turfgrass Chemicals & Fertilizer  
William Dunn – Steve Stys  
(201) 575-1322

### R & S LANDSCAPE CO., INC.

Golf Course Construction  
Claus I. Raven  
(201) 278-0616

### SEACOAST LABORATORIES, INC.

Manufacturer  
John C. Moynihan – Richard G. Baker  
(201) 257-7772

### GEO. SCHOFIELD CO., INC.

Landscape Products—Sands & Stone  
Russell P. Balunis – Michael Stair – Roy Malpas  
(201) 356-0858

### O.M. SCOTTS & SONS

Fertilizer, Chemical Sales  
Fran Berdine (914) 361-4105  
Steve Rudich (215) 253-4003

### ★SHEARER/PENN

Tree Surgeons  
Dena Dobenski – Steve Willard  
(609) 924-2800

### STANDARD GOLF COMP.

Golf Course Equipment  
Steve Tyler – Chief Waseskuk  
(319) 266-2638

### STORR TRACTOR COMPANY

Turf Maintenance Equipment, Irrigation  
Paul Deschamps – Gene Tarulli – Paul Granger  
(201) 722-9830

### ★WILLIAM STOTHOFF CO. INC.

Well Drilling, Pumps, & Pump Repairs  
William L. Stothoff III – William E. Snyder  
(201) 782-2717

### THE TERRE COMPANY

Turfgrass Supplies  
Byron Johnson – Bryan Bolehala – Pat O'Neil  
(201) 473-3393

### TURF PRODUCTS CORPORATION

Turfgrass Supplies  
Ernie Rizzio – Buddy Rizzio – Ron Lake  
(201) 263-1234

### STEVEN WILLAND INC.

Turf Equipment Distributor  
Bill Rapp – Kurt Wagner – Mark Ericson  
(201) 227-5656

### VAUGHAN'S SEED COMPANY

Grass Seed; Golf Course Supplies  
Charles Walkiewicz – Sky Bergen  
(201) 356-4200



Baltusrol • Bedens Brook • Canoe Brook •  
Shackamaxon • Spring Brook • Timber Trails and others . . .

What do the superintendents of these  
prestigious golf courses have in common?

They use the services of . . .

# **KOONZ** **SPRINKLER SUPPLY**

**. . . the smart choice for all your irrigation needs**

**SERVICE  
EXCELLENCE**

- Complete inventory
- Service assistance and technical support
- 25 years experience



**QUALITY  
PRODUCT LINES**

Distributors of

**RAIN BIRD®**

**HUNTER®**

**WEATHERMATIC®**

Sprinkler Equipment

*For more information on how  
we can be of service, call:*

**KOONZ**  
**Sprinkler Supply, Inc.**

39 Waverly Avenue • Springfield, N. J. 07081

**(201) 379-9314**

Branch Offices: Wall Township • Toms River • Wyckoff