

Ken Killian Elected President of American Society of Golf Course Architects

Ken Killian was elected president of the American Society of Golf Course Architects during the organization's recent annual meeting at the Sawgrass Club in Florida.

Killian, whose design firm is located in Palatine, IL, began his architectural career in 1956 when he joined the staff of Robert Bruce Harris, a founding member of the Society. In 1964, Killian and Richard P. Nugent left the Harris firm and established their own firm. In 1983, he and Nugent each opened their own firms.

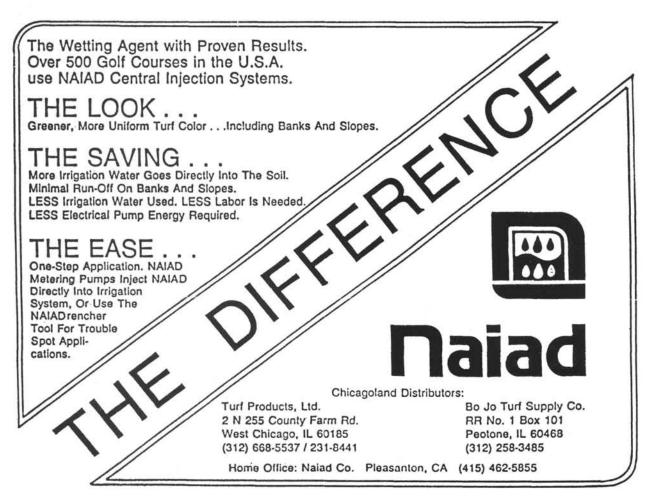
In 1971, Killian joined the American Society of Golf Course Architects, which is comprised of the leading golf course architects in the United States and Canada. He has served on a variety of committees. Prior to being elected an officer in 1983, Killian served as the chairman of the Supplier's Directory committee.

He also is a member of the Illinois Turfgrass Foundation, Midwest Golf Course Superintendents Association, American Society of Landscape Architects and the National Golf Foundation.

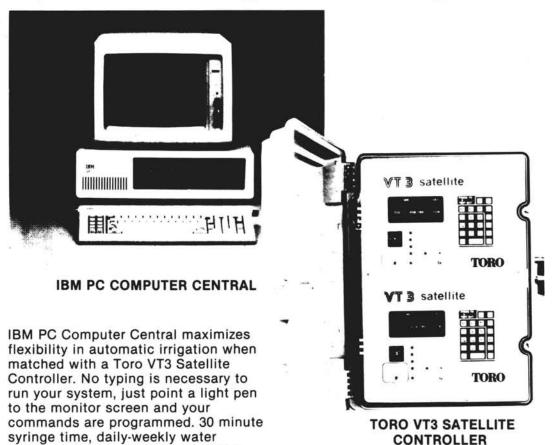
Among Killian's most notable courses (designed in conjunction with Nugent) are Kemper Lakes, one of the top public courses in the U.S. and the site of the 1989 PGA Championship, in Long Grove, IL; Forest Preserve National, an 18-hole municipal course, in Tinley Park, IL; Sand Creek, an 18-hole course owned by Bethlehem Steel, in Chesterton, IN; and Mission Country Club, a private course which required a great deal of mounding to create a rolling course on flat land in Midland, TX. He also designed El Mirage, a course specifically designed for a retirement community in Sun City, AZ.

In addition, Killian has been involved in the remodeling of several older courses, such as Sunset Ridge Country Club, Northbrook, IL; Ravisloe Golf Club, Homewood, IL; and Sun City Golf Course, Phoenix, AZ.

At the present time, Killian is involved in the design and construction of courses in Columbia, S.C., Palatine, IL, St. Croix, Virgin Islands and South Bend, IN.



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Chicago District Golf Foundation Update



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Fairway Conversion to Bentgrass

Fairway Renovation with Roundup Herbicide



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Fairway Renovation at Butterfield



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Alternative Renovation Procedures with Roundup



Dr. David Wehner Associate Professor, University of Illinois

Bentgrass Fairway Management



Dr. Randy Kane CDGA Turf Advisor



Roger Stewart Superintendent (Riverside GC)

Kenneth R. Zanzig "Poet Laureate"





Upcoming Events — Mark Your Calendar

May 19 — Joint Association will meet at Eagle Ridge C.C. in Galena

June 9 — MAGCS monthly meeting at Crystal Lake C.C. July 21 — MAGCS monthly meeting at Palatine Hills

August 7 — U of I Turfgrass Field Day at Urbana

August 18 - MAGCS monthly meeting, Bartlett Hills

September 8 — MAGCS monthly meeting at Deer Creek G.C.

October 6 — MAGCS monthly meeting at Wilmette C.C. November

December 9-11 — North Central Turfgrass Exposition

Ed Stewart of River Forest G.C. won a Kawasaki All-Terrain Vehicle at the recent GCSAA Conference in San Francisco! It goes to show he who takes the time to fill in all of those address cards can come out a winner.

For Sale: 1978 Dedoes Green Aerifier, Model TCA 501. Excellent condition. Make offer. Call Ken at Woodruff Golf Course. (815) 722-3346.

John Ebel has another bright new assistant in Brian Bossert, who comes to Barrington Hills C.C. from Medinah C.C. John is GIVING AWAY 9 wood tee benches which need some cleaning and painting (yes folks, John has admitted that something he has is dirty and needs paint!!!) and plus 9 Par Aide metal waste receptacles for 2" pipe mounting in good condition. Call John Ebel at (312) 381-0140.

The deepest sympathy of the members of the Midwest Association of Golf Course Superintendents is extended to the Mike Smith family on the death of his father on April 1, 1986.

Do you have a question on certification or about public relations with the GCSAA? If so, give Bruce Williams a call for he has just been appointed to those committees.

On the evening of April 4th, there was a surprise party for Ken Zanzig put on by Ralph Krueger, the owner of Green Garden C.C. This retirement party was attended by about 72 of Ken's friends and associates in the turf business. Ralph Krueger gave Ken and his wife a trip to Hawaii and also Dudley Smith presented another trip to Hawaii to the honored couple from his many friends. The two trips were a surprise for everyone concerned. Ken has worked for Ralph Krueger for about 18 years: at Palos, Old Oak, and at Green Gardens C.C.

Sean Daley from Ridge C.C. has left the area for the sunny climate of Mesa, Arizona where he will be working for LESCO as the area representative. Good Luck in the sunny southwest, Sean. Dennis Wilson has been appointed to fill the vacancy that Sean left on the MAGCS Board of Directors.

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Ideal reel grinder, Ideal bed knife grinder, and a Foley lapping machine. Price: \$1,000. Call (312) 963-6706.

Superintendent Wanted

Position now open to start construction of a Links 9 Hole Golf Course with a private recreation club near Ottawa, Illinois. Resumes to be sent care of: Bull Sheet, 1022 Shady Lane, Glen Ellyn, IL 60137.

The CDGA Green Seminar held at Butterfield was a success. The talks on lightweight mowing were very enlightening to the green chairmen and members of the green committees who were in attendance. Some equipment dealers went away smiling and others were scratching their heads. Overall it was a good seminar for anyone who needed more information on lightweight mowing of fairways.

For those guys who fish and hunt, the Illinois Department of Conservation has established a 24 hour toll free number providing us with a weekly update of conservation news. This will be like a "telephone billboard" and will include information like the latest hot spots in fishing, the best lures to use, and the best methods to catch fish. During the fall the information will include the hunting dates and seasons. To get this information, call: (800) 624-3077.

Dr. Randy Kane reports there is a wide spread kill of Poa annua on many courses due to crown hydration caused by the sudden drop in temperature following the heavy rains in November. Most damage seems to be with the Poa and most of it is in low spots and pockets that are poorly drained.

Joe Williamson is joining Turf Products on May 19th as a salesman! Joe will make the 3rd salesman that Turf Products has. Good Luck, Joe, in your new career.

Joe Williamson makes the 2nd MAGCS Board Member to leave the ranks of the golf course superintendents and go into sales.

Dom Grotti Trophy to be Given

The 1986 Northern Illinois Golf Day will feature a new format for golf course superintendents and their assistants. With the help of Dennis Wilson, a spectacular traveling trophy is being donated by Sunset Ridge Country Club in Dom's name. It will be given to the winning two man combination in a format to be named later.

Domenic Grotti was a friend to many golf course superintendents. As Arrangements Chairman for MAGCS in the 1940's, he campaigned for superintendent recognition, and worked hard to get monthly meetings out of the shops and into the clubhouses. He told many stories about the unsung superintendents who, by their talent and love for their golf courses, took a little bit of money, a lot of hard work and made something special of it.

ITF is planning a great golf day for all people interested in fine turf. Premiering the first annual Domenic Grotti trophy this year will make a special event even better for golf course superintendents and their assistants. MAGCS has and always will support turf research funding. Let's make Dom inaugural at the ITF Golf Day this September a big success.

Unions for the Golf Course

by Robert K. Breen, Sr. Arrowhead Golf Club, Wheaton, IL

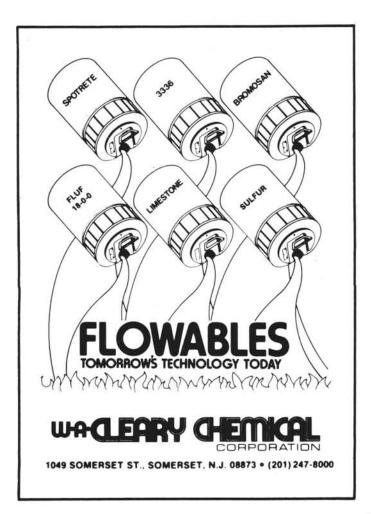
Most of us are aware that labor pains are sometimes the result of a failure to take certain precautions! This may also be true of the labor pains that can be created when we who are responsible for maintaining a golf course are faced with the prospect of having a union attempt to organize the facility.

A union has been described as "an association of workers that has as its major objective the improvement of conditions relating to employment." While we are all aware of the strength of unions in industries, the present trend is for unions to organize such professions as teachers, police, firemen, and other technical and professional people.

Steven J. Cabot stated, "Employees don't vote for a union, they vote against management." There is little doubt that the primary reason most unions have gained their present dominance is because of the lack of concern for employees by supervisors in earlier times. Other reasons include to strengthen bargaining power and improve working and economic conditions.

Before a union can become a reality there is a definite procedure that is prescribed by the National Labor Relations Board. The first step is to obtain an authorization card from thirty percent of the work force of an organization. This is a request to have an election to decide if the employees wish to be represented by a union.

The union can then petition the N.L.R.B. for the right to hold such an election. If fifty percent of those voting in the election decide for a union, the union is then certified as the official







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bargaining agent for that group, and to negotiate a contract with the representatives of management.

Provisions that the management and the union bargaining team discuss include: Union recognition, management rights, grievance procedures, disciplinary procedures, wages, benefits, safety, employees' rights, and duration of the contract.

There are a number of things that supervisors may not do, under a threat of punishment by the N.L.R.B., while the organization is taking place. Among them are: 1) the supervisors may not threaten any employee with loss of his job because of union activities, 2) you may not interfere with attempts to sign up other employees, 3) you cannot spy on those conducting union business, 4) you cannot ask an employee how he is planning to vote.

In all likelihood, if a union is to gain entrance into the golf courses of the Chicago area, I believe it will be through either a Park District or City Golf Course. This is in spite of the fact that most such courses offer many benefits that are not available to all full time employees in the private sector.

In the Wheaton Park District, the benefits are typical of most area park and municipal courses. A full time employee receives the following benefits: Time and a half after 40 hours. There are 11 paid holidays per year; if an employee is required to work on a holiday, the rate of pay is two and a half times his regular hourly rate. After one year a full time employee is eligible for 12 days of vacation with an additional day per year added until 25 days, or five week vacation; two personal days per year; one sick day per month until a total of 30 days or 6 weeks have been accumulated. After that the District will buy back half of

(cont'd. page 22)

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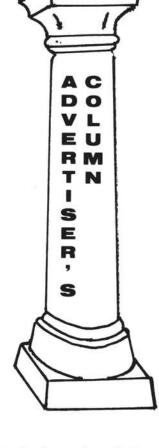
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A History of DuPont

by Frank Gasperini, DuPont

The DuPont Company is one of the oldest manufacturing companies in the United States. It was founded by E. I. DuPont in 1802 as a manufacturer of black powder. DuPont built his powder mill on the Brandywine River near Wilmington Delaware to take advantage of the water power needed to run the mills.

Throughout the 1800's DuPont grew as a manufacturer of black powder and became known for high quality. DuPont powder was the standard of military and civilian gunpowder specifications. During this time the company was a family business with DuPonts, long time employees, and second and third generation employee families working together. Due to the inherent hazards of the business, attention to safety became almost a religious pursuit within the company. This devotion to safety in all aspects of product production,



movement, and end use persists in the modern DuPont Company.

DuPont was one of the first companies to use a sports celebrity sponsorship for its products. The golf tour was not yet established — but Annie Oakley was paid a retainer to use DuPont powder and appeared on DuPont posters and advertising in the late 1800's.

Throughout the late 1800's and early 1900's DuPont remained in the gunpowder and explosives business. Black powder still remained the company's primary business, though worldwide thia was a declining market.

After WWI DuPont entered the dyes business and several other chemical supply businesses such as industrial acids, lacquers, etc.

It was not until the invention of "NYLON" in a DuPont laboratory in the mid 1930's, and its commercialization in 1939, that DuPont became a major diversified chemicals company. The uses for "NYLON" grew explosively spurred by WWII. Introduction of plastics, paints, and many other synthetics followed. DuPont emerged from WWII as a major company on a world-wide scale. At one point in the 1950's DuPont owned a major portion of General Motors.

DuPont has been involved in the turfgrass industry since the early 1950's "Uramite" slow release nitrogen fertilizers were widely used on golf courses and other recreational turf areas.

"TERSAN" OM, which was introduced in the 1950's, was a major mercurical fungicide during a period when most disease control materials were based on heavy metals.

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The Effects of Herbicide Formulation and Environment on Weed Control

by David J. Wehner University of Illinois

Weed control continues to be one of the most important of turfgrass maintenance. Understanding some of the factors that affect herbicide performance will make it easier to do an effective job of weed control. The purpose of this article is to present information on how herbicide formulation and environmental conditions influence herbicide activity.

The death of a target weed is preceded by a chain of events that starts with the application of the herbicide. After herbicide application, the herbicide must be absorbed by the plant, move through the plant to the site of action and then disrupt the metabolism of the plant. Herbicide formulation and environmental conditions can influence any or all of these events. For our discussion, we will assume that the correct amount of herbicide has been applied to the turf and that spray drift, volatilization, leaching, and photodecomposition of the herbicide were minimal resulting in an adequate level of herbicide to kill the weed. Furthermore, the discussion will concentrate on post-emergence broadleaf weed control. Preemergence herbicides must be applied prior to weed germination so environmental conditions at the time of application are less of a concern.

Herbicide absorbtion, the first step necessary for weed control, can occur through both the leaves and roots. Herbicides such as 2,4-D and MCPP are absorbed through leaves while preemergence herbicides such as bensulide and benefin are absorbed by the roots. The mechanism by which the herbicide is absorbed or diffuses through the foliage depends on the nature of the herbicide molecule and formulation. Some herbicides

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enter through the cuticle of the plant while other herbicides enter through the stomata of the plant. The cuticle is made up of waxes which are nonpolar, meaning that it is resistant to the penetration of polar substances such as water. Ester formulations are more effective in controling certain types of weeds that have a very thick covering of wax like wild onion or garlic because esters are nonpolar and can penetrate the wax.

All herbicide formulations contain wetting agents and surfactants that help reduce the surface tension of the spray droplet on the leaf so that the droplet can spread out and the herbicide is exposed to a larger surface area through which it can diffuse. It is generally not necessary to add additional surfactant or wetting agent to herbicide formulations since the manufacturer has done extensive tests to determine which surfactant is best and has added this to the formulation. Mowing the turf at the correct height maximizes the surface area that is able to intercept the herbicide spray and also gives more surface area for diffusion to occur. Hairs on the leaf surface can either increase or decrease herbicide entry into the plant. If the hairs prevent the droplet from contacting the cuticle, then uptake is reduced; if the hairs help intercept and retain more droplets on the surface of the plant, they can increase herbicide penetration.

Air and soil temperature will affect the rate at which the herbicide can diffuse through the cuticle or the root surface. Temperatures that are optimum for growth of the plant will be optimum for the diffusion process. Under very high temperatures, the herbicide droplet can dry before the active ingredient has had a chance to enter the plant. High humidity