

JUNE, 1967

VOL. 20. NO. 12



The Bull Sheet

Official Bulletin

Midwest Association of Golf Course Superintendents



Host: HAROLD FREDRICKSON

NEXT MEETING

EDGEWOOD VALLEY COUNTRY CLUB

Willow Springs, Illinois

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7. For: Assistants & Apprentices.

THE BULL SHEET, official publication of THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS.

TOM BURROWS, Editor
1648 Prairie
Northbrook, Illinois 60062

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The President's Message

A recent letter from Warren Bidwell brought sad tidings. Marshall Farnham, past president of G.C.S.A.A., has passed away. The Philadelphia area lost another **Turf General** this past year, Joe Valentine of the Merion Golf Club. These were devoted turf men both in maintenance and research. They leave very large shoes for our younger generation to fill.

We had an excellent meeting at Elmhurst C. C. Fred Opperman had the course well groomed for such an early wet Spring outing. Miss Joan Carey's, of the Illinois Bell Telephone Company, presentation on the impression we give over the telephone was humorous, enlightening and educational.

Ted Woehrl's statistics reveal that 97 were present for dinner. This is excellent attendance. Do you realize the miles some of the members travel to attend? At Elmhurst we had representatives from Valparaiso, Gary, and Hammond, Indiana; Ogelsby, Streator, and Kankakee far to the south. These men are to be commended for their faithful attendance.

Next month our meeting will be at Edgewood Valley C. C. in Willow Springs. Silver Lake is hosting the National Lefthanders Tournament that week. Several hundred south-paws including the likes of Ted Williams and Sandy Koufax are expected. If all goes well, I'll be with you at Edgewood Valley.

Dudley Smith
President

THINKING AUTOMATIC?

In the March-April, 1967 Turfgrass Times, there is a very interesting and informative article on "Weak Links in Automatic Irrigation", by Herman R. Johnson, Superintendent of the Quail Creek Golf and Country Club, Oklahoma City, Oklahoma.

Herman points out eight weak links which are valuable information to those who are contemplating golf course automatic irrigation.



JUNE 5, 1967

EDGEWOOD VALLEY COUNTRY CLUB
Willow Springs, Illinois

HOST: HAROLD FREDRICKSON

June Educational Program features
"TOM MASCARA"

Tom's Talk will be, "How to Make More Money"
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APPLICANTS APPLYING MEMBERSHIP AT THIS TIME:

Phillip A. Bersin — Class D
Edgewood Valley C. C.
7500 Willow Springs Rd.
La Grange, Illinois 60525

Alan J. Crosser — Class D
Fresh Meadows Golf Club
2035 Prentiss Dr., Apt. 310
Downers Grove, Illinois 60515

Ralph A. Hinz — Class A
201 S. Dorchester
Wheaton, Illinois 60187

Oliver G. Miles — Class B
Joliet Country Club
423 White Avenue
Joliet, Illinois 60433

Gene A. Palrud — Class D
4401 Dempster Street
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6440 S. Artesian
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GOLF REPORT

By Golf Chairman — Oscar Miles

Elmhurst Country Club was our fine host club, with Mr. Fred Opperman as host golf course superintendent, this eighth day of May, 1967.

The weather was still not very cooperative to give us warmer temperature and cloudless skies. Even with cold, windy and off and on wet conditions, we had 42 golf course superintendents play Fred's beautifully conditioned 18 holes of very demanding golf. Fred's staff at present consists of only eight men to maintain his 220 acres. Elmhurst is a private club, but schedules private golf outings on Mondays, Tuesdays, Thursdays and Fridays. The club is booked full until September, 1967.

The treacherous Salt Creek which winds throughout the entire course makes the golfer careful in placing drives and second shots on 9 of the 18 holes. The 16th, a par 3 hole, 130 yards underwent complete reconstruction last fall and will be back in play very soon.

The following members tried their luck and accuracy and were fortunate to win prizes:

Low Gross	Oscar Miles	76
1st. Low net	Roy Nelson	68
2nd. Low net	Ted Woehrl	71
3rd. Low net	Bill Hargrave	71
4th. Low net	Al Bertucci	72
5th. Low net	Joe Calale	72
6th. Low net	Mike Bavier	73
7th. Low net	Tom Burrows	73
8th. Low net	Bill Reeves	73
9th. Low net	Dick Rachardson	73
10th. Low net	George Weidner	73
11th. Low net	George Druzisky	73
12th. Low net	Harold Michaels	73
13th. Low net	Paul Frankowski	73

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Dudley Smith (Left), congratulates Fred Opperman on the excellent condition of Elmhurst Country Club.

Constant foul weather didn't appear to deter Fred Opperman, our host Superintendent, from having Elmhurst Country Club in a finely manicured state for all the golfing and browsing faction of our Association. Many fine comments were overheard concerning the landscaped areas around the clubhouse and pro shop.

Interesting topics of conversation discussed in the spacious lounge area were factors involved in spraying insecticides and fungicides by helicopter, tornado damage and costs involving golf courses and, of course, the usual profane remarks concerning the almighty weather.

Most everyone was aware of the smooth flow of activity from golf course through the locker room and lounge to the dining area. We would like to commend Mr. Al. Looye, Manager and his fine staff for their courtesy and the efficient service offered during this meeting. And last but not least, we would like to extend our sincere appreciation to the officers of Elmhurst Country Club for permitting us to use their club facilities.

Jerry Cheesman

FROM "GOLFDOM"

Every superintendent in territory where courses are subject to winter injury ought to get Bulletin No. 5 from Charlie Wilson of the Milwaukee Sewerage Commission (Box 2079, Milwaukee 53201) covering the two-day golf turf symposium co-sponsored by the Milwaukee GCSA and Milorganite . . . Superintendents Deschler, Faubel and Kress and Milorganite staffers Latham and Welch conducted the affair . . . Inadequate drainage, and drying-out on wind-swept areas in the winter and traffic when the ground is thawing in spring were named as sources of much turf trouble in summer.

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The following table shows the amounts of copper sulphate that will kill fish.

Trout —	1.20	lbs.	per	million	gallons	of	water
Carp —	2.50	"	"	"	"	"	"
Suckers —	2.50	"	"	"	"	"	"
Catfish —	3.50	"	"	"	"	"	"
Pickrel —	3.50	"	"	"	"	"	"
Goldfish —	4.00	"	"	"	"	"	"
Perch —	6.00	"	"	"	"	"	"
Sunfish —	10.00	"	"	"	"	"	"
Black Bass —	17.00	"	"	"	"	"	"

The approximate content of any lake in gallons may be obtained by the following:
Acres of surface area x 27,000 x average depth in inches.

Example: A 5 acre lake with an average depth of 6 feet may be computed as follows:

$$5 \times 27,000 \times 72 = 10,720,000 \text{ gallons.}$$

To treat a lake of the above size for algae control, and still not harm trout, a maximum of 10 lbs. of copper sulphate should be used.

The copper sulphate may be sprayed onto the surface of the water or applied in crystal form from a boat by dragging a sack of the copper sulphate crystals in parallel paths, at 20 ft. intervals, up and down the lake until the crystals are dissolved.

C. E. Stewart

UNIFORMS

Each year more and more superintendents are outfitting their golf course maintenance staffs with work uniforms. The uniforms, on rental basis cost approximately \$.05 per hour, per man. It is felt that this small benefit is a morale booster of the employees and is certainly an asset to employee appearance to members.

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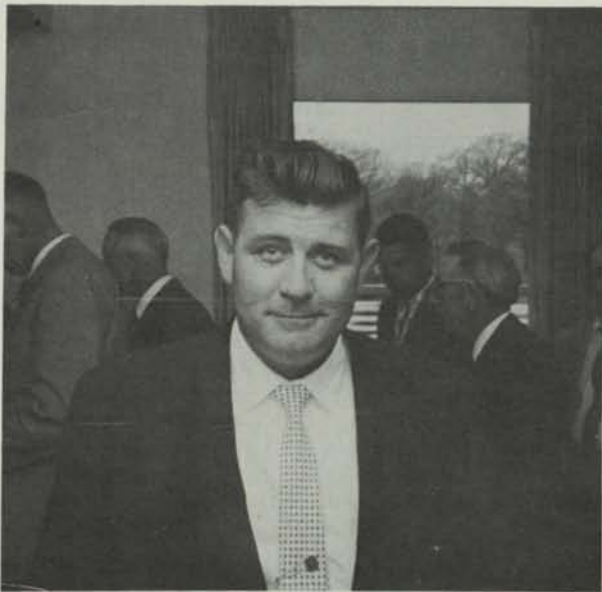
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HOLMES CORNER

By James L. Holmes

Mid-Western Agronomist — USGA Green Section

Last fall while calling at Somerset Country Club in St. Paul, Minnesota, I saw where Jerry Murphy had installed small, slit trenches made with a power chain saw on a few of his greens. Slits were dug to a depth of between 8 and 12 inches in low-lying areas and extended to the collars and beyond. Soil was removed and grooves filled to the surface of the soil with a calcined clay product (or sand). No soil whatsoever was used as fill or covering. Jerry reported that within approximately 2 weeks turf cover grew over slits and no problem to putting resulted. He said as many trenches as considered necessary can be installed. This spring I have seen where 3 or 4 fellows in other areas of the Midwest have installed such trenches. To date, it appears this is an excellent method for draining localized wet areas and one which may be useful on greens where surface drainage is a problem.

A great deal of publicity has been given to the 3-inch wide — approximately 3 feet deep slit trenches, filled to the surface of the soil with pea gravel, for use in draining low, water-holding areas primarily on the fairways and roughs. I first learned about these from Roy Nelson, superintendent at Ravisloe Country Club, and have since carried the word to golf course superintendents throughout the Midwest. As you know, no soil whatsoever is to be placed over the pea gravel as a perched water table will result and water simply will not enter the slit. I would say that well over 10,000 miles of these trenches have been installed and are truly working wonders in removing surface water. Obviously, if a large, low area with no surface outlet is considered, a suitable amount of sub-terranean tile must be installed in order to pick up these large volumes of water. Nonetheless, installation of trenches is a great help in relieving localized wet conditions.

I was out at Rockford Country Club earlier this week where Al Needham has held the fort as golf course superintendent for 30-odd years. During early September for the past 4 or 5 years, Al has been opening fairway soils with an aerotiller and over-seeding with a mixture of 70% *Poa trivialis* — 30% Seaside

bentgrass. At the time of this visit, I was amazed at the amount of *Poa trivialis* which has filled-in and is apparently doing a fine job. Also, bentgrass is spreading in many areas. Bentgrass is a heterogenic breeder, or one which cross-breeds readily with both male and female parental types carrying over to the progeny. Seaside bentgrass has every conceivable type imaginable. If Seaside is used, upright or colonial types, vigorous vegetative types, some with coarse blades, some with fine blades, some with coarse stems, some with finer stems; types which will do well in moist conditions, as well as types which will do well if drier conditions develop. Eventually, in a given area, a type of grass which will "do best" predominates. It would follow that every time fairways are overseeded, a certain amount of Seaside be used. Further, the mixture of *Poa trivialis* and Seaside seems to do exceptionally well together. Perhaps this is brought about by the fact that most people tend to water fairway areas in excess, occasionally.

I have become interested in the mulching work Jerry Cheesman at Park Ridge has done this past winter and currently have a series of pictures, at present still in the camera, showing results. Further, Jerry has promised to take pictures which show the complete story or what mulch might be most effective. I suggest that anyone interested in following this more closely contact Mr. Cheesman and perhaps take a trip to Park Ridge to observe results. In any event, next month I hope to have a series of pictures and to discuss this more thoroughly.

At the present time leaf spot disease is especially severe on Kentucky bluegrass. This is an excellent time to make at least one application of a fungicide, even if you do not plan to follow a regular fairway fungicide program throughout the year. Products which are working quite well are Actidione RZ and a mixture of zinc ethylene bisdithiocarbamate and iron sulfate. The zinc fungicide is applied at a rate of 15 to 20 pounds per acre with iron sulfate at a rate of 3 pounds per acre.

I learned a slick way of applying powdered arsenicals such as calcium and lead arsenate from Tom Guettschow, golf course superintendent at Lincoln Greens Golf Course in Springfield, Illinois. The reason this was so important to them was that the powdered material was considerably cheaper than the granular. Tom places a 12 foot steel pipe boom with 3/16 in holes drilled on 1 inch center on the back of his spray tank. A drop board was placed beneath the pipe so that the suspension flow would hit the board, thus even distribution over the area treated. All strainers were removed from the system, which has a 10 GPM pump. A couple handfuls of a suitable detergent such as Dreft or Tide were included. Calcium arsenate was mixed in at a rate of approximately 2 pounds per 1 gallon of water. (Tom said more may work.) The line pressure was between 35 to 45 pounds per square inch. He had an exceptionally even coverage with little or no trouble.

I have found turf and playing conditions excellent this spring with a minimum amount of winter or spring damage.

BULLSHEET: the April 1967 issue contained 12 pages; 661 copies were mailed, covering 31 states and 2 countries. The cost \$227.36.

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"THE EXPRESSWAY"

Thanks, to all persons who have contributed to this column — Dick Trevarthan of Prestwick C. C., (August, 1967 Midwest Association Meeting Host) reports that their new Clubhouse addition has been completed and the entire area landscaped . . . Dick will install 500 feet of new cart paths in the near future — Congratulations to Amos Lapp of St. Andrews. Amos got married April 27 — Arrowhead Golf and C. C. will start construction of a new 9 holes this fall . . . Dave Gill, their architect will design a complete automatic irrigation system — Don't forget the next Midwest Meeting . . . June 5 at Edgewood Valley C. C., Harold Fredrickson, host — Roy Nelson, Midwest Secretary still has a few Association Blazer emblems . . . (No charge) . . . The Emblem, designed by Peter Voykin of Idlewood C. C. was chosen from 17 different models during an "Emblem Contest" in 1961 — Thanks to Mrs. Irene Burton who requested that all superintendent photos appearing in future "Bullsheet" be identified . . . very good idea — Ron Bilt, son of Peter is now sales representative for the Velsicol Company, covering the Carolinas . . . Ron is a graduate of the University of Illinois where he majored in Marketing and Ornamental Horticulture — Tom Burrows, Jerry Dinelli and Ken Wesenberg traveled to Lincoln Green Golf Club, Springfield, Ill. a few days ago to see Superintendent Tom Guetschow's Hydraulic irrigation system — Cliff Van Pouche, pro at Woodrige C. C. for 12 years is now Manager — Suzy Fredrickson's 1966 Fall Turf Clinic talk "Honey,

Your Supper Is In The Oven" has been reprinted by the Miami Valley Superintendents Association (Ohio) newsletter, "Divots" — the previously announced July, 1967 Midwest Association Meeting at Beverly C. C. has been cancelled due to the "Western Open", watch for the announcement for the new meeting place — Gabe Rossett, retired from Skokie C. C. in October, 1966 after 12 years . . . Gabe is currently a part time construction and maintenance consultant at Hill Crest C. C. (former Long Grove C. C.) Long Grove, Ill. — Paul Voykin, of Briarwood C. C. is installing electric drinking fountains on the course . . . anyone wishing current information on electric fountains, contact Paul . . . Paul will give a "Drinking Fountain" presentation at our Fall Turf Clinic — President Dudley Smith announced at the May Association meeting, the opening position for superintendent at the Ruth Lake Golf Club, Hinsdale, Ill. — Thanks to the "Illinois Bell Telephone Company," and Miss Joan Carey, our guest speaker at Elmhurst C. C. meeting in May . . . Miss Carye's presentation "Winning Friends By Telephone" certainly will benefit all who attended the meeting — Superintendent Bob Winter of the Winnetka Golf Club will possibly install a green, tee and fairway irrigation system this Fall . . . Bob reconstructed one green and two tees last fall which are now open for play — Ed Stewart of River Forest Country Club reconstructed his #13 green last fall and stolonized with C-15 . . . will re-open the green around June 1 — Roy Nelson of Ravisloe Country Club has rebuilt his #18 green trap . . . Roy said that over a 30 year period the trap had been edged up to a few inches from the green . . . a new well was installed, 12 inch at 550 GPM, this is their second well and they now have 1000 GPM for irrigation . . . Roy will also enlarge and terrace the #11 tee — Dennis Straus at Rolling Green Country Club reconstructed two greens last fall (Koelper Company as contractor), the greens were stolonized with C-15 . . . and has also installed Toro Hydraulic irrigation on their 1st green, tee and fairway . . . Dennis invites anyone interested to stop by and take a look — Pat Ryan, owner of the Greenshire Golf Club, a 9 hole par 3 has recently constructed a practice putting green . . . the entire 9 holes has automatic irrigation — Tom Gilman at Riverside Country Club reconstructed two tees and one green last fall and should be open around June 1 . . . Tom also enlarged one lake and dredged out another as part of a drainage program — Norm Kramer, GCSAA Director, says the National Executive Directors and Headquarters are really pushing for more public recognition for the Superintendent . . . read his article in the April "Golf Superintendent" — Walter Pieper, 37 year veteran at Flossmoor Country Club is enlarging and renovating their #15 tee . . . constructing a new rain shelter at the 16th tee and a new rest room at the 13th tee . . . Dale, Walter's son, has been the assistant at Flossmoor for eight years . . . During the January, 1967 severe snow storm, Walter's staff was snowbound in the clubhouse for three days — The tornado which hit a few weeks ago touched down along the Glencoe Golf Club boundary and ran about a mile, severely damaging and uprooting 200 large trees, then hopped over Green Bay Road and on to Adolph Bertucci's Lake Shore Country Club and there took down 15 large trees.

Ed Braunsky, superintendent-manager of Hickory Hills Golf Club is certainly thankful, he lives only two blocks from the Oak Lawn tornado destruction path.



(left to right) Ray Gerber, Al Johnson, Chas. Schultz and Wes Updegraff.



(left) Al Staudt and Gordon Hard



(left to right) Walter Hoyt, Bill Smith, Joe Grenko, and Art Benson Sr.



Gerald Dearie — Arrangement Chairman

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COOPERATIVE EXTENSION SERVICE

SAFE USE OF PESTICIDES

by Stanley Rachesky

Extension Entomologist, University of Illinois

Safety in the use of chemical pesticides should be of major concern to all golf course personnel. There are no alternate means of adequately controlling insects, mites, nematodes, weeds, fungi and other pests that occasionally run havoc on the golf course.

Pesticides can be poisonous to humans but can be safe if used in the prescribed manner. Many suggestions can be made that will help to insure the wise use of pesticides and thus avoid accidents, but **good judgment** in using and handling pesticides can prevent most accidents.

Your personal safety and the safety of the individuals around you is **your** responsibility.

General Routes of Absorption — dependent upon type of pesticide used:

In general, insecticides, fungicides, herbicides, rodenticides and solvents can enter the human body to a greater or lesser extent by being absorbed through the skin, as well as, the respiratory and gastrointestinal tracts.

General Symptoms of Pesticide Poisoning — dependent upon type and dose of toxicant absorbed:

Headache, Dilation of eye pupils, Nausea, Vomiting, Diarrhea, Drowsiness, Secretion of tears, Dizziness, Profuse sweating, flushed skin, Profuse salivation, Muscle twitching, Loss of coordination, Sensitivity to light and sound, Deep and rapid respiration, Convulsions, Coma.

The old, old saying "An ounce of prevention is worth a pound of cure" applies here better than any place else. When applying pesticides on the golf course accidents can happen! Prepare ahead of time. In case of accidental contamination or ingestion consult a physician before application of the pesticide he can call the nearest poison control center for information and be ready should an accident occur. A list of poison control centers in your state is available by writing directly to the Cooperative Extension Pesticide Specialist in your state.

Think Pesticide Safety.

1. Read the label. The most important 4 minutes in pest control is the time it takes you to read the label.
2. Do not smoke while handling pesticides. Some are quite flammable.
3. Apply correctly to label specifications and only when necessary. Don't over apply.
4. Avoid inhaling fumes, mists, dusts.
5. Wash off contaminated skin with soap and water. Many insecticides are contact poisons and can be easily absorbed through the skin, especially the eyes.
6. Store pesticides in the original containers and under lock and key. It is better to be safe than sorry especially with all the children roaming around on your golf course this summer.
7. Destroy empty containers. Break bottles and punch holes in cans to prevent reuse. Paper containers should be burned, being careful not to inhale the fumes while doing so.

When you want to send a message,
wrap it up in a person.

Name — **Stanley Rachesky**

Employer — Cooperative Extension Service, University of Illinois

Address — 10 N. LaSalle Street — Room 250,
Chicago, Illinois 60602.

Phone — 663-2620

Title — Extension Entomologist

Degrees — B.S. (Zoology) Kansas State University, 1963
M.S. (Entomology) Kansas State University, 1966

Residence — Bloomingdale, Illinois

The residents of this highly populated and urbanized area of the city of Chicago and suburbs, which in my case includes the 7 most northeast counties of Illinois, are confronted with many insect, plant weed, and animal problems. These problems involve pests of trees, shrubs, lawns, flower gardens, home vegetable gardens, household, **golf courses**, park districts, sewage plants, etc. Correct use of pesticides will provide safe and effective control for the majority of these problems. Thus, the aim of my position is to work along with the various organizations such as the Pest Control Operators, **Golf Course Superintendents**, Park District Manager, Garden Club Federations and any other non-agricultural, non-commercial organization or business in the safe and correct use of pesticides. I will be available to give talks and lectures, identify insects or plant diseases, conduct research or help an irate housewife with a pest problem in her house.

Along the lines of research, last summer I started some work on filter fly control at sewage plants which I hope to continue this summer. Also, this summer I will be working along with the entomologists at the Natural History Survey on the Phytotoxicity of various insecticides on bent grass on some of the golf courses in my area.

Please feel free to write or call at any time.

Stan Rachesky



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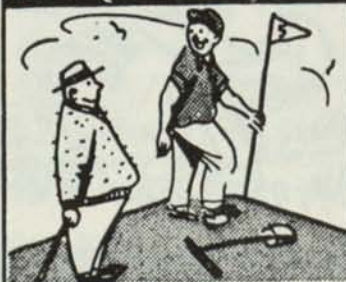
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Lady golfers in greater numbers than ever patronize golf courses, especially on weekdays. If only the golf course superintendents could be made aware of the friendly atmosphere and conveniences that can so easily be created for his newly acquired majority—We Women! He has it within his power either to put out the "welcome mat," or in many unspoken ways to let women golfers know that they are still "Second-Class Citizens" on his golf course.

The "Welcome Ladies" feeling can be expressed in several ways. The same pride, care, and maintenance of the Ladies' Tees as given to the Mens' is a good start. I have played on many public and private courses where the area around the Ladies' Tee has been so neglected that it is hard to believe the same ground crew also cares for the rest of the more immaculate surroundings. The ground crew reflects the Superintendent's attitude in their courtesies toward women golfers during spraying, sprinkling, and mowing operations. The lack of ball washers, benches, and yardage markers indicating Ladies Par are yet other signs that women golfers are unwelcome. It is certainly an insult when Ladies Tee-off areas are indicated by broken markers which are obvious rejects from the Mens' Tees! With a little extra thought and care by the Golf Course Superintendent, the very same areas could offer the "welcome feeling."

Much has been said of amateur Lady Tournament golfers, who are sticklers for "rules." We are laughed at and sometimes scorned. But how often does that very area of controversy concern an unnatural lie. The friendly Course Superintendent is the Tournament Chairman's greatest ally. He will instruct his crew to repair or mark-off "construction" tracks created by maintenance vehicles, and other unnatural hazards in advance of tournament play.

How nice it is to know that we can ask our Course Superintendent when he changes the Tee-off markers daily to place them to our needs during our 3-Day Medal Tourney. To help make things more challenging, the "cups" are moved daily so yesterday's putting surface is no help today.

It your Welcome Mat showing? ? ? Ours is ! ! !

PAULETTE MARKOFF — Mrs. Jerry (Paulette) Markoff is the mother of three children and has been a golfer since a child. She currently has a "7" handicap and holds the women's course record of "77" at the Glencoe Golf Club. Past president and women's champion for 5 years at Glencoe. She has participated in all State, County and Western Golf Tournaments and is currently the Vice-President of the Northern Illinois Women's Golf Association.



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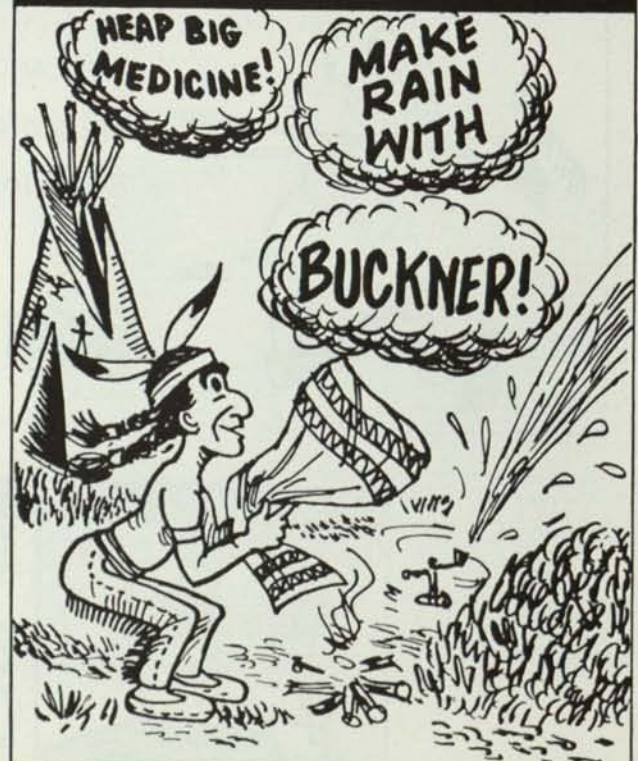
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Beverly C. C. Pro Shop

TORNADO

Ted Woehrle sends a "Sincere Thanks", to the ten Superintendents and Clubs who sent men and power saws to assist in the clean-up after the tornado hit Beverly Country Club.

The tornado which swept through a 9 mile stretch of Oak Lawn, Hometown and Evergreen Park a few weeks ago killing 34 persons touched down on Beverly Country Club at 77th Street.

Damages: Pro Shop, complete destruction. Cart House and 42 electric golf cars, complete destruction, \$66,000.00 damages. 31 large oaks up-rooted and 30 had severe top damage.

Amazing things happen:

1. Five club employees in the pro shop when the tornado touched down received only bruises and scratches.

2. One of the employees, a saleswoman, discovered one of her shoes missing after the tornado struck. The shoe was found two days later, 200 feet from the incident.

3. A residential home roof was in the top of a tree on the 9th fairway.

4. 2 x 4 and 2 x 6 lumber from the Pro Shop was speared into the ground on the 1st fairway. A tractor was unable to pull them out.

5. Three redwood benches, placed parallel to each other on the 1st tee; the center bench of the three was a pile of splinters, the other two were untouched.

6. A bride's wedding gown was found on the #7 tee.

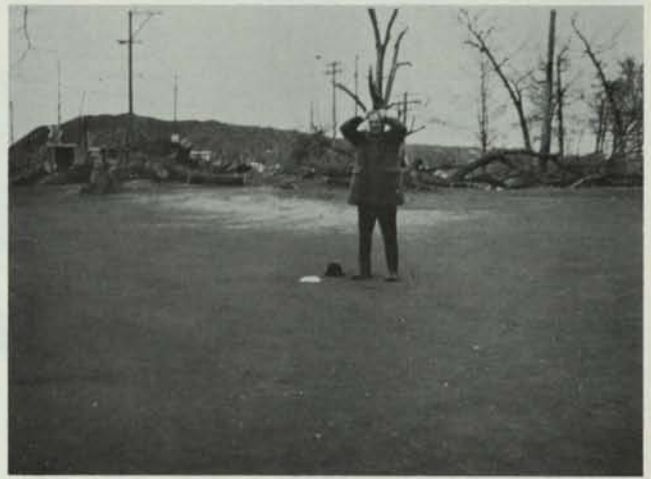
7. The maintenance building, direct in the tornado path only a few hundred feet from the Pro Shop, was untouched. Large oaks were up-rooted only 50 feet away.

8. Paul Frankowski, Superintendent of the Evergreen Golf Club, just across the street from Beverly C. C., had his maintenance staff climbing trees removing alpaka sweaters from Beverly's Pro shop.

Beverly Country Club will construct a \$90,000.00 Pro shop-Cart house combination in the site of the old Pro shop.

Currently there are three house trailers being used for Pro shop, offices and bag storage.

Ted will install five 10-inch caliber trees in the rear of the 10th green where all large oaks were destroyed.



Ted Woehrle on Beverly's 10th Green



(left to right) Bob Ellsworth, Jerry Cheesman, Arny Bodhaine

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Pleasantness

Build a pleasant image with a "Voice with a Smile." Pleasantness is contagious.

Naturalness

Use simple, straight forward language. Avoid repetition of mechanical words or phrases—particularly avoid technical terms and slang.

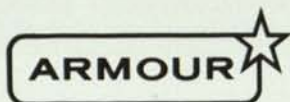
Distinctness

Speak clearly and distinctly. Move the lips, tongue and jaw freely. Talk directly into the transmitter.

Expressiveness

A well-modulated voice carries best over the telephone. Use a normal tone of voice, neither too loud nor too soft. Talk at a moderate rate, neither too fast nor too slow. Vary your tone of voice. It will bring out the meaning of sentences and add color and vitality to what you say.

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FOR: ASSISTANTS & APPRENTICES

There are probably 30 or more Apprentice Superintendents training under Chicago Superintendents this year. Perhaps we should tack these 10 helpful hints on our bulletin boards for them to read.

1. **Work closely with the Superintendent.** The Superintendent and the assistant should periodically check over the entire course. Assist the superintendent in planning the daily, weekly, and monthly work schedule. Assign the daily instructions to the laborers. The assistant should give the superintendent his full cooperation.

2. **Cultivate management abilities** and a clear understanding of all operations. Be capable of taking over the course in the absence of the superintendent. The superintendent will be open to ideas, so let him hear your ideas for improvement. Read books, take night courses, ask questions to improve yourself. Be 100 percent behind the superintendent in any of his decisions, and don't discuss golf course problems with the members, and club employees.

3. **Go an extra mile.** Be the first to work in the morning and make sure the shop is locked up before leaving at night. Carry a notebook, jot down things that should be brought to the superintendent's attention. Observe. Do your best to keep the laborers' morale up; after all, hard jobs have to be done as well as easy ones.

4. **Have enthusiasm.** Don't growl when the superintendent asks you to work a few minutes overtime. Do your work with enthusiasm.

5. **Have faith.** When doing a job don't say I can't; have faith in yourself and say I can!

6. **Have controlled attention.** When given instruction, listen. Don't let your mind wander to extracurricular activities. Give your work all your attention. Continually check what is going on around you.

7. **Thinking must be organized.** When the superintendent is not around it is sometimes necessary to use your own discretion. Think twice before acting. For example, check your tools over before leaving the shop, to prevent wasted time.

8. **Learn from defeat.** Don't get discouraged when something goes wrong. Accidents do happen, and when you make a mistake, simply make up your mind not to let it happen again.

9. **Have a pleasant personality.** Try to get along with everybody. Dale Carnegie tells us "it takes two dislikes to make a hate," so kill them with kindness.

10. **Have personal initiative.** Come to work clean and well dressed. Don't continually have to be told to do your specific duties. Don't, time after time, neglect that piece of paper lying in the rough. Do a job correctly the first time instead of having to do it again. Complete routine duties which will interfere with the golfers before they come out.

The Editor

What's more embarrassing than jumping to a conclusion that isn't there?



(left) Terry Buchen and Gene Palrud



(left to right) Harry Nielsen, Bill Saielli Jr.
and Bob Block



(left to right) Adolph Bertucci, Jerry Dinelli, Pat Ryan,
Ron Rossett and Fred Opperman



Gabe Rossett



The SPRAY-HAWK, a precision mobile turf sprayer, is being introduced this spring by Mallinckrodt Chemical Works.

It was designed for use on greens and other areas where accuracy and uniform turf chemical coverage are absolutely necessary, the SPRY-HAWK features corrosion resistant construction and eight non-drip nozzles on an 80-inch adjustable-height boom.

Additional features of the SPRAY-HAWK include its unique method of calibrating the unit to the individual operator by coordinating factors of speed, time, height, pressure, distance and gallonage. It also has a special optional conversion kit, which permits an alternate assembly to place the boom and spray nozzels beyond the wheels from the operator. So assembled, the SPRAY-HAWK may be pulled, to apply a spray pattern not tracked by the wheels or the operator's feet.

IOWA STATE UNIVERSITY, AMES, IOWA

Reprint: WEEDS, TREES AND TURF

By: Dr. Eliot C. Roberts

Iowa State's turf training program is jointly sponsored by the Departments of Agronomy and Horticulture. Students majoring in either department can elect this specialty. The four-year program grants a B.S. in argonomy or horticulture with turf management as a Specialized Training Option requiring 14 credits. Though undergraduate study is emphasized, work towards M.S. and Ph.D. degrees is also offered.

Dr. Eliot C. Roberts is in charge of the program, and is assisted in teaching by graduate students and by Professor A. E. Cott, Extension Turfgrass Specialist. Courses in agronomy and horticulture are taught by staffers in these subject areas. Specialized turf training began at Iowa State in 1959 and has produced 35 graduates with B.S. degrees, seven with M.S. degrees, and now has two candidates completing Ph.D. requirements.

Undergraduate enrollment usually varies from 20 to 30 students, with five to eight in each class. Iowa State is on a quarter system; students can enter the course at the start of any quarter: first week in Sept., Nov., Mar., and June. Applications should be made well ahead of anticipated starting dates—two quarters is recommended.

Requirement for entering the program is acceptance at the University. Tuition and registration fees for an academic year (three quarters) come to \$345 for Iowa residents and \$930 for nonresidents. Contact Dr. Roberts for general information and the University's Registrar for entrance details.

