

MAY, 1963
VOL. 16. NO. 11



The Bull Sheet

Official Bulletin

Midwest Association of Golf Course Superintendents



CHARLIE RACK
Host Superintendent

MAY MEETING
TUESDAY, MAY 7, 1963
RIDGE COUNTRY CLUB

GOLF AND DINNER

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

TED WOEHRLE, *Editor*,
8700 So. Western Avenue
Chicago 20, Illinois

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BILL BRADY
Chairman of the Membership Committee

PRESIDENT'S MESSAGE, MAY 1963

Dateline: April 14, 1963

It was very gratifying for us all at our April meeting at Sportsman's Country Club to see some friendly faces we haven't had the pleasure of seeing for some time. I hope this is an indication that some of our temporarily inactive members have found a renewed interest and will share with us the benefits of our educational offerings and the spiritual lift of brotherhood each month.

An April meeting seems to have a stir of motion in it. The conversation and activity is generated by pent up energy we have accumulated during the winter months, and everyone is champing at the bit. Chief topic of conversation as I heard it was water systems. It seems that this winter played some havoc with soils and pipe. With the dry weather this spring some of us turned on our water systems earlier than ever before, and were surprised to find some lines still frozen. Stories of broken pipe five feet below the surface and fairway valves being snapped off like match sticks were numerous. Even heard someone had pipes raise up out of the ground when pressure was turned on. These stories really scared some of the boys who had not yet turned on their systems. I guess we really found out just how good our water systems drain out in the fall after this winter. At the present time there are indications that we will have to do more sprinkling this spring than normal unless we get a break in the weather pattern. The main topic won't be "ice sheet" damage this spring, at any rate.

In the department of trivia or of interest to those who notice such thing I would like to relate that about two weeks ago several large flocks of Sandhill Cranes passed over my club northward. They are large birds standing over 4 feet in height. Their presence is not phenomenal, but they are rarely seen east of the Mississippi River.

Well, time is getting short and filled with many things to do, so I'd better cut this off short. See you next month.

John Ebel, President

MEET THE BOARD

Bill has been employed as the Superintendent of Barrington Hills Country Club for the past five years. Prior to coming to the Chicago area he was Superintendent of Maple Bluff Country Club in Madison, Wisconsin for 10 years. Other experiences before that time included 14 years with the Municipal Club in Mishawaka, Indiana.

He lives with his wife, Mary Jane and two children in Barrington. There is a girl 16 years old and a boy 7 years old.

Bill's hobbies include fishing and hunting. He served in the Infantry during World War II and he said it wasn't too bad except they had to walk wherever they went and he doesn't like to walk.

Bill was elected to the Board of Directors last year and served as Chairman of the Entertainment Committee. This year President John Ebel appointed him the Chairman of the Membership Committee. He has already started a program to increase our membership. Good Luck, Bill.

WHAT KIND OF MEMBER ARE YOU?

1. Some members are like wheelbarrows — no good unless pushed.
2. Some are like canoes — they need to be paddled.
3. Some are like kites — if you don't keep a string on them they will fly away.
4. Some are like footballs — you can't tell which way they are going to bounce next.
5. Some are like balloons — full of wind and likely to blow up unless handled carefully.
6. Some are like trailers — no good unless pulled.
7. Some are 100 percent members in regular attendance, and are very cooperative.

Which one are you?

From Leo Cleary

LOCAL NEWS



LAWRENCE MARZYINSKI

Because of the lack of space and time last month we were unable to place the picture of Lawrence Marzyinski in the April issue. Lawrence was the Host Superintendent of Sportsman Country Club where the last monthly meeting was held. According to the golfers that played that beautiful day he had the course in wonderful shape. Lawrence has been at Sportsman for the last several years starting there in February 1960. Before that he was employed as Superintendent of the Rolling Green Country Club for over 30 years.

10 YEARS AGO THIS MONTH

Just ten short years ago this month the meeting was held at Silver Lake Country Club. Norm Kramer was Superintendent then and the schedule for the day was planting Zoysia over $\frac{1}{2}$ acre. The event was called "Operation Zoysia." Remember?

Henry Lange had just completed his new irrigation system at the Glenview Club.

Frank Dinelli was planting Zoysia on some of his tees.

Frank and Mrs. Mastroleo had just become grandparents for the first time.

Mike Coyne had just sold Glenwoodie Golf Club and purchased Fox Lake Country Club.

A recent announcement from Geo. A. Davis states that they now have a recording service for the convenience of the people that find it necessary to place orders after normal business hours.

The Roseman Mower Corporation announced recently that they are now handling West Point Products.

Several of the Superintendents in the area are using Endothal for Knotweed control. Others are using Sodium Arsenite at one to two pounds per acre. Some are mixing 2,4-D with Sodium Arsenite at the rate of one pound actual material per acre.

The wife of Randy Mulkey recently passed away. Randy is Superintendent of Westgate Valley Golf Club. The Association extends its deepest sympathy to Randy.

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THE INVISIBLE DAMAGE

Each year the Golf Course Superintendent is faced with the problem of restricting play on his course as the frost is leaving the greens. Greens are soft and foot prints show up readily as the anxious golfer plays his first round of golf.

Not too many years ago golf courses were "Closed" to play during this period of time. As membership dues began to climb more and more pressure was put on the Superintendent not to "Close" the course. So he did the next best thing. He placed the pins on the approach of the green on what is called a temporary green. This appeased some of the golfers but not all of them. The next attempt to keep the golfer happy was to place the pin on the extreme front edge of the green so as to avoid as much footprinting on the green as possible.

Now the Superintendent is being asked to place the cups in their normal position on the green and never "Close" the course again. This is fine, but the memberships of these clubs should be informed by the Superintendents what the consequences might be. First, there is the visible damage to the green, this being the obvious footprinting. Now, depending on how soft the green is will depend on how deep the prints and how long it will take to level out again. We all know that they will all eventually disappear, or at least it will appear that way to the golfer. The greens normally will be bumpy for two or three weeks but very seldom longer than this.

Here is where the "invisible damage" comes in. When the greens are soft, because of frost in the soil, we have a condition where minute soil particles are actually suspended in a soil that is supersaturated. This being due to the fact that the excess moisture cannot penetrate through the frozen barrier. When this soft soil is compressed by someone walking on it, it becomes compacted. This compaction is permanent, or at least until it is frozen again or aerified or spiked. The last two methods of eleviating the compaction are certainly not complete.

If weather conditions become adverse later on in the year, the compaction will take its toll. True, the member has long forgotten this footprinting because he no longer can see it, but the fact remains the condition is still there. Often times these conditions never cause trouble, but each year we hear of cases that can be traced directly back to the early golf on soft greens. If the memberships are informed of the penalty they may have to pay by early golf, perhaps they may think twice before teeing off when the greens are too soft.

During the last educational portion of the April meeting the subject of Knotweed control and its ramifications were discussed. Bill Saielli, Superintendent of Indian Hill Country Club stated that he has had good results with Sodium Arsenite at the rate of 2 lbs. per acre. Bill Stupple also uses 2 lbs. per acre while spot treating. This may have to be repeated a week to 10 days later. Kuron and Endothal were also mentioned as possible controls for Knotweed control. These new products should be handled with great care when treating areas containing Bent Grass.

In the past it was common practice to use 2,4-D mixed with the Sodium Arsenite. In most cases this has been abandoned because of the possible damage that might occur to the Bent in the fairways. This mixing is still good practice however, where you are treating Bluegrass areas.

Bert Jannes of the Chicago Park District showed us some very interesting slides giving the details involved in rebuilding Bowling Greens at several of the City Parks here in Chicago. He also showed us some slides on Vandalism, a subject close to all of us. I guess most of us can't complain too loud after seeing some of the problems that he faces as the Superintendent of the City Golf Courses. Another problem that he presented with slides, was traffic control on his tees where he may have over 50,000 rounds of golf per year. His method of using mats is certainly worthy of consideration where one encounters similar problems. A grass tee is only used for special events.

JOE DINELLI WINS LOW GROSS!

Nineteen hardy golfers played at the last meeting and prizes were presented to the winners at the dinner in the evening. Joe Dinelli was presented the prize for Low Gross by the Chairman of the Golf Committee, Marv Gruening. Others that won in the Peoria System were: Doug Jabaay, Bob Winter, Pete Voykin and Clarence Mitchell.

Marv promises that our golf events this year will be much improved and that we should all have a lot of fun playing this year.

The next meeting will be held at the Ridge Country Club on the South Side of Chicago. This will be an afternoon of golf and a dinner meeting in the evening. Charlie Rack will be our Host. He promises to have the course ready for you hotshots.

NATIONAL NEWS

From the National Headquarters comes this report on membership.

During the month of February the total membership was 1956 members. The month of March showed the membership to be 2009, consisting of:

Class A Charter	22	Class C	43
Class AA	27	Class D	33
Class A	1403	Class E	159
Class B	227	Class F	95

This is an increase of 53 members in one month. There has been an increase of 74 new members in 1963 Help to keep this number growing. There are still a few members of the Midwest Association of Golf Course Superintendents that do not belong to the National.

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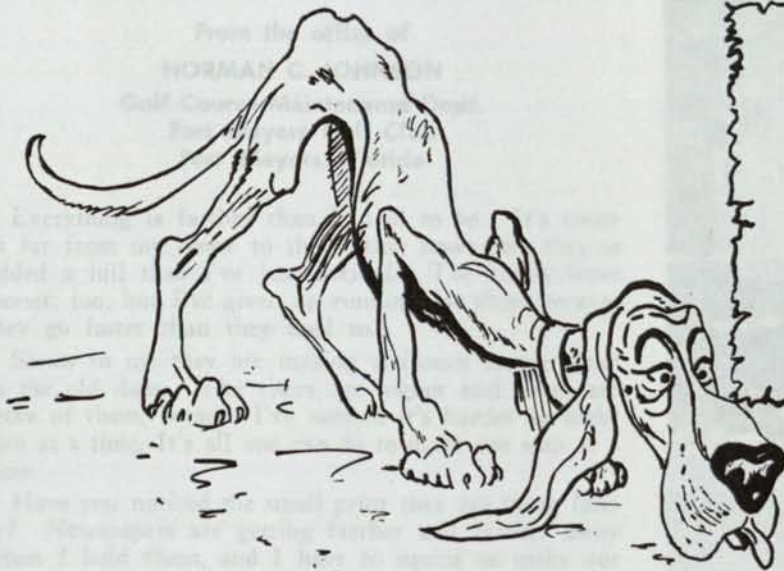
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THE CHANGING TIMES

From the office of
NORMAN C. JOHNSON
Golf Course Maintenance Dept.
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Fort Meyers, Florida

Everything is farther than it used to be. It's twice as far from my house to the station now, and they've added a hill that I've just noticed. The trains leave sooner, too, but I've given up running for them because they go faster than they used to.

Seems to me they are making staircases steeper than in the old days. The risers are higher and there are more of them, because I've noticed it's harder to make two at a time. It's all one can do to make one step at a time.

Have you noticed the small print they are using lately? Newspapers are getting farther and farther away when I hold them, and I have to squint to make out the news. Now it's ridiculous to suggest that a person of my age needs glasses, but it's the only way I can find out what's going on without someone's reading aloud to me and that isn't much help because everyone seems to speak in such a low voice that I can scarcely hear.

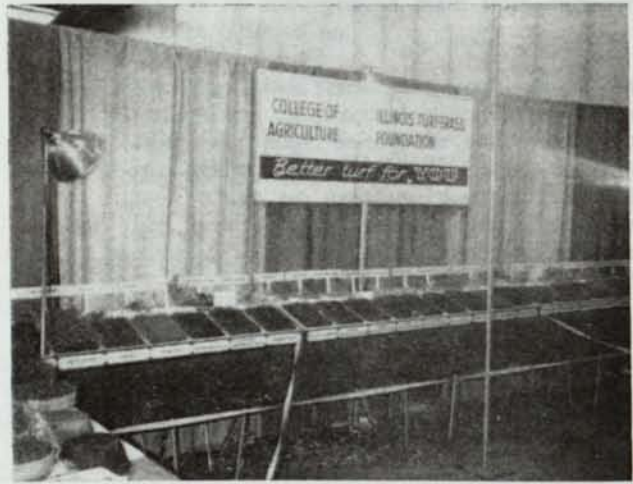
Times sure are changing. The material in my clothes, I notice, shrinks in certain places (you know, like around the waist, or in the seat). Shoe laces are so short they are next to impossible to reach.

Even the weather is changing. It's getting colder in winter and the summers are hotter than in the good old days. Snow is so much heavier when I attempt to shovel it, and rain is so much wetter that I have to wear rubbers. I guess the way they build windows now makes drafts more severe.

People are changing, too. For one thing they are younger than they used to be when I was their age. On the other hand, people my own age are so much older than I am. I realize that my generation is approaching middle age.

I ran into my roommate the other night, and he had changed so much that he didn't recognize me. "You've put on a little weight, Bob," I said. "It's this modern food," Bob replied. "It seems to be more fattening."

I got to thinking about poor Bob this morning while I was shaving. Stopping for a moment, I looked at my own reflection in the mirror. They don't use the same kind of glass in mirrors any more.



Top: ITF Booth at World Flower Show. Bottom: Emil Mashie and Son, talking to Dr. Mike Britton and Jack Butler at ITF Booth at World Flower Show.

NATIONAL EDUCATIONAL COMMITTEE MEETING

At a recent meeting held in the Morrison Hotel here in Chicago, Dave Mootie, Chairman of the National Educational Committee called a meeting to formulate the Educational Program for Philadelphia. Present were some of the top men in the field of Turf Maintenance. The outcome of the meeting produced a program that will be unique in the history of our National Association. Subject material will vary considerably from the past plus a full discussion of the newly proposed retirement plan will be presented to the membership.



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IRRIGATION

P. A. Boving

University of Illinois

(Continued from last month)

Surface irrigation is not common for golf greens and fairways, graveyards, and other such horticultural uses, they are preferred for agricultural purposes. Therefore they have no place in this talk.

Sprinkler irrigation then or hose coupled-sprinklers will therefore be our means of spreading water. Sprinklers require portable pipe, hoses, and spinkler head; it can connect from underground main pipes to hose risers with sprinklers on the ends of the hoses, or can be replaced by complete underground piping systems where sprinklers are attached to the couplers of the underground pipe.

Solid systems, i.e. systems that operate all sprinklers or outlets at once; or selected sequence sprinkling will have an important part in determining the type sizes to be used.

III. What is a logical sequence for developing an irrigation system?

The size of the reservoir or the water flow rate through a meter from the city are allowed for in a stream will set the maximum amount of water flow that can be used in the system. The next item to consider is the rate at which the soil will accept moisture. This should be determined for the worst conditions of mean irrigation. From the soil intake rate, a selection is made of a suitable sprinkler head which will match this rate. At the same time that the sprinkler is selected, a determination can be made of desirable sprinkler spacings. Sprinkler spacings and sprinkler sizes will control the uniformity of water application and the rate at which it is applied on the surface of the ground.

From these determinations, a simple sum will determine the number of sprinklers that can be run at any one time. This sum is: capacity divided by the sprinkler rate equals the number of sprinklers to be run.

Having the selected sprinkler system and the number of sprinklers to be running at any one time, the piping layout can be developed and pump and pipe sizes determined. In this way, the system can be designed for present operation, and such designs include facilities for future improvement at a later date. Such improvements

would be the use of underground main lines, increased water availability, and so on.

IV. When do we irrigate?

This question has given researchers trouble for a long time. All research and all practical irrigators know that irrigation must take place before the soil reaches the wilting point. Scientists have been developing accurate, simple, rugged water or moisture measuring devices. To date, they have found to be too delicate, and they tend to incomplete coverage of the desirable moisture range. It is felt, however, that sometime in the future they will have a desirable moisture measuring device.

The logical use of this proposed device will be the complete automation of irrigation. At present, we can automate irrigation by using time switches and time-sequence controls for automated water application. These operate successfully in the more rigid areas of the continent. With the inclusion of a moisture measuring device and a time clock, we can then automate our irrigation completely in that when the plants require moisture, and the area to be irrigated is in a non-use period; such as night time or after dark, the sprinklers will pop up from underground containers and the area will be irrigated to the desired level and the systems disappear underground again. It would then be the responsibility

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CRAB GRASS CONTROL

Recommendations For 1963

Another year of using, testing and evaluating pre-emergence crabgrass control passed last year and, if nothing else, the results showed that no chemical now available can be completely depended upon to control crabgrass in a satisfactory manner and still not injure the established desired turgrasses. Because of this, no one material is worthy of blanket approval at this time.

DACTHAL AND ZYTRON

Dacthal and Zytron continue to give excellent control. Both are quite safe on the bluegrass varieties. Some injury has occurred from time to time on the fescues although this is the exception and not the rule and these materials are worthy of trial.

ARSENICALS

Calcium arsenate has also given consistently good control though possibly not as good as Dacthal and Zytron. Crabgrass rates of Calcium arsenate provide adequate grub control. Minor discoloration of the perennial grasses has occasionally occurred and at times annual blue grass is destroyed. All arsenicals must be handled and stored with care to protect the user and his children against accidental poisoning.

CHLORDANE AND BANDANE

Chlordane is much less toxic to humans than are the arsenicals and gives good to excellent control. Higher rates generally give excellent control. (60 pounds per acre commonly recommended but 80 pounds per acre is needed for best results). Chlordane is the least likely to injure turf and generally the most which may occur is only some temporary yellowing. Chlordane, at the crabgrass rates, gives excellent grub control. (As the grubproof rate of chlordane is only 10 pounds per acre the grubproof rate will not give crabgrass control.)

Bandane is similar to Chlordane. At 45 pounds per acre rates control was excellent. At 30 pounds per acre rates control was not satisfactory. This material is as safe as chlordane to turf.

CALCIUM PROPYL ARSENATE

Calcium Propyl Arsenate (C.P.A.) had a poor rating last year. Since then its strong points have been found out and good to excellent results have been obtained when applications were made in *late spring*, just prior to crabgrass germination. For late season control perhaps this material or Zytron would be a better choice for trial.

DIPHENTRILE

Diphentriple was first marketed in 1961 and at first results were erratic. Where higher rates have been used this material has been found dependably effective giving excellent control.

POST EMERGENCE MATERIALS

Highly effective and highly dependable are the materials which are available for crabgrass control once the crabgrass has germinated. Should your lawn become weakened and thinned in the early growing season and you see crabgrass which is starting to germinate and which will compete with desirable turf grasses you should consider using one of the following materials. The only point against these materials is they require three sprays at two week intervals.

ARSENATES

DMA and AMA are two arsenical materials which perform dependably for selective control. Applications should begin when young seedlings are just germinating.

PHENYL MERCURY

PMA is less effective in late season control. Some yellowing may occur on Merion blugress with the use of this material but it is safe on all other grasses.

IRRIGATION FACTS

by C. E. Stewart, Irrigation Engineer

When watering fairways, tees or greens the layer of water applied by the sprinkler in a given time is often required.

The following formula gives the amount applied in one hour by any sprinkler, provided the following is known.

1. The discharge of the sprinkler in gallons per minute.
2. The diameter of the circular area covered by the sprinkler in feet.

$$\frac{122 \times \text{G.P.M.}}{\text{Diameter (squared)}} = \text{inches per hour.}$$

For instance if a sprinkler discharges 15 gallons per minute and covered a circular area with a diameter of 100 feet the inches per hour precipitated would be:—

$$\frac{122 \times 15}{100 \times 100}$$

which equals 0.183 inches per hour.

The discharge in gallons per minute can usually be obtained from the sprinkler manufacturer catalog, once the water pressure AT THE SPRINKLER is known. A pressure gauge should be fitted at the base of the sprinkler while it is in operation in order to find the true water pressure.

(Continued on Page 9)

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of the grounds keeper to maintain and correct the sprinklers and the control mechanism to adjust flow rates and keep the system in operation in the same fashion as a modern automated factory.

Another accurate method in determining the true sprinkler discharge is to attach the sprinkler to a hose and turn it upside down into a container and catch all of the water for a given period. Then weigh the water and be sure to subtract the weight of the container. One gallon of water weighs 8.3 pounds, so by dividing the weight of the water by 8.3 the gallons discharged from the sprinkler is obtained, this amount must of course be further divided by the number of minutes the sprinkler was allowed to discharge into the container in order to know the gallons discharged per minute.

The problem often arises on golf courses for greater volumes of water in the distribution pipe system and the superintendent is often faced with installing new and larger pipe lines or boosting the existing capacity of the existing pipe line with a parallel feeder pipe.

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