

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

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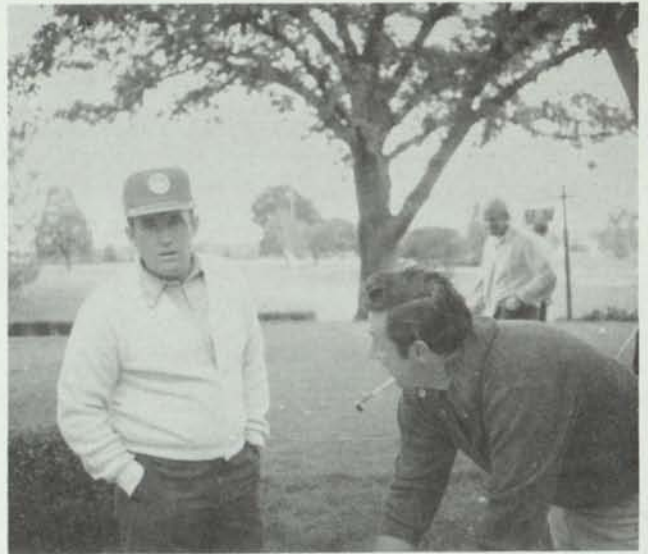
1971 ANNUAL TOURNAMENT

The 1971 MAGCS golf tournament was held at Kankakee Country Club on October 6. Bill Hargrave provided us with a fine golf course and a beautiful day. Many thanks go to Bill and the staff of KCC for their cooperation. It is easy to see how Hargrave gets out of tight spots, all he does is play the fourth hole 10 times a day.

The winners, low gross and seniors, who somehow survived the infamous fourth, were Pete Voykin and Bennie Kronn. Their picture appears below; Kronn is the one on the left.



Although it wasn't past presidents day, Eric Nesterincko and Tom Jones managed to show up.



Thanks again to Bill Hargrave and Pro Bill Fitzsimons. Fitz can't believe Hargrave either.



In the next two pictures, notice how good Dave Meyer looks. Only Charlie Schultz looks like he had a better year.



Continued somewhere else in this issue.



This could be the best picture I have ever taken. Has anyone ever seen the other side of Roy Nelson? Has anyone ever seen Dick Trevathan in a serious mood.?

19th ANNUAL TURF CLINIC

NOVEMBER 16 & 17, 1971

"WORKING AND THINKING TOGETHER"

Tuesday, November 16, 1971

A.M.

- | | | |
|-------|---------------------|-----------------------------------|
| 8:30 | Registration | Bertram Jannes
Howard Baerwald |
| 9:30 | Call To Order | Joe Canale, President |
| 9:45 | Welcome, Host Sup't | John Jackman |
| 10:00 | Keynote Address | Ben Chlevin |

SESSION I — PAUL VOYKIN, Moderator

Working Together

- | | | |
|-------|------------------------------------------|-------------------|
| 10:20 | Manager-Superintendent Relationship | G. V. Marlatt |
| 10:40 | Professional-Superintendent Relationship | Ziggy Troy |
| 11:00 | The Importance of a Golf Superintendent | Patty Berg |
| 11:20 | We Need Each Other | Ralph C. Peterson |
| 11:40 | Questions | |
| 12:00 | Lunch | |

SESSION II — MIKE BAVIER, Moderator Reviewing Something Old — Investigating Something New

P.M.

- | | | |
|------|-----------------------------------------------------|----------------|
| 1:30 | When and How of Trimming Trees & Shrubs | Arthur Howard |
| 2:00 | New Turf Fungicides — Panel | |
| | Marvin Gruening | Dick Lamkey |
| | Arthur Benson, Jr. | Julius Albaugh |
| 3:00 | Something Old and Something New in Sand Trap Raking | Brad Anderson |
| 3:30 | Update Report of National Affairs | Ben Chlevin |
| 4:00 | Questions | |
| 5:00 | Cocktail Hour | |
| 6:30 | Banquet — Guest Speaker, Robert Cromie | |

Mr. Cromie is a noted author and television personality. His column, "bob cromie" appears Mondays thru Fridays in the Chicago Tribune. He is also the host on "Book Beat", a literary discussion program on Channel 11. A list of his books includes such similar titles as "Dillinger; A Short and Violent Life," and, more recently, "Golf for Boys and Girls". In addition, Mr. Cromie is an honored WW II war correspondent, having served in the European and Pacific theaters.

Wednesday, November 17, 1971

SESSION III — ROY NELSON, Moderator

Thinking Together

A.M.

- | | | |
|-------|------------------------------------------------------|------------------------------------------------------------|
| 9:30 | Good Drainage, Good Turf | Roger LaRochelle |
| 10:00 | Cart Path Problems — Movie | Joe Grenko |
| 10:20 | Fifty Years of Smith Family Park District Management | Edward Smith |
| 10:40 | The Thinking Man | Tim Miles
Phil Bersin
Leonard Schneof
David Meyer |

11:30 Questions

12:00 Lunch

SESSION IV — LEE RECORD, Moderator

Automatic Irrigation Installation and Use

P.M.

- | | | |
|------|---------------------------------------------------------------|----------------------------------|
| 1:00 | Automatic Irrigation System on a New Course | Clifford Behrendt |
| 1:30 | Direct Conversion from Manual to Automatic | Adolph Bertucci
Walter Wilkie |
| 2:00 | Automatic Irrigation Installed and Controlled with a Computer | Jerry Dinelli |
| 3:00 | Questions | |
| 3:30 | Summary, Lee Record | |



Jim Burdett (l.) and Ross Smith both of Burdett's, Inc., Lombard, Illinois, discuss scheduling of manufacturers representatives for a five month program called Burdett's Walk-In and Talk, 1971-72.

Over 20 companies including the State of Illinois will provide representatives for the series of "learning bull-sessions", each firm presenting a day-long program at which their particular chemicals, products, machinery and methods of work will be displayed and discussed. Held at the Burdett's, Inc. warehouse, programs will include morning sessions from 9 a.m. to 12 noon, and afternoon sessions from 1 to 4 p.m.

Firms to be featured in this series include Skinner, Standard, Velsicol, Geigy, Dow, Northrup King, Tuco, and many others. A full list of representatives is available from Burdett's, Inc.

Koos, Inc. Kenosha, Wisconsin, has appointed Roger A. Brown, Vice-President-Sales, Turf and Terra Division. This is part of a major Koos expansion in their already large private label and professional turf products business.

Brown, formerly Area Sales Manager, International Minerals and Chemical Corporation, has an extensive background in quality fertilizer and other turf products. A member of the Golf Course Superintendents of America, and The Midwest Assoc. of Golf Course Superintendents, he has been associated with turf products for over 20 years.

Koos, also announced that through an agreement with I.M.C., Koos will take over a number of I.M.C.'s brand names and formulas, including Premium, Thrive and Fairway Foods. The Thrive line will include a new Green Tee Turf Food and Premium Fairway Food.

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INSTRUCTIONS FOR THE CARE OF YOUR IRRIGATION UNIT

IN THE FALL — AFTER IRRIGATION

1. Remove Suction Cover
 - (a) Check wear at impeller eye
 - (b) Check wear at wear ring
Remachine or replace if clearance is greater than .030
 - (c) Clean impeller and volute of possible debris
2. Remove Packing Gland and Packing
 - (a) Check wear on shaft sleeve
Replace sleeve if worn or grooved
3. Run Motor — Check Bearings
 - (a) Clean bearings with solvent
Replace if noisy or rough or shows moisture etching
 - (b) Clean motor of dust and debris
 - (c) Check insulation of windings
 - (d) Check throw-out switch or
 - (e) Check commutator and brushes if single phase
4. Check shaft for run out
5. Grease bearings
6. Repack pump
7. Replace suction cover — use new gasket
8. Store in clean dry place
9. Check main switch contact points

IN THE SPRING

10. Make sure no rodents have nested in motor or pump
11. Check suction line — must be air tight
12. Check motor rotation
13. Check terminal connection — must be tight
14. Prime pump
15. Irrigate

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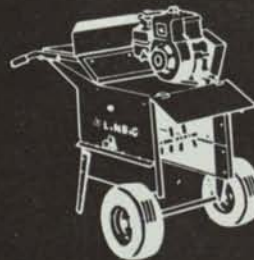
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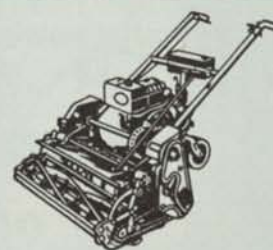
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Turf-Terra products are sold through the same distributors that handled IMC in Illinois and Wisconsin.

Automatic Irrigation for Today's Golf Course

Irrigation, the application of water to the soil, is playing a leading roll in the establishment of the type of golf course that is being demanded by the golfing public today. With the new and increased technological advancements of the automatic irrigation systems, the Golf Course Superintendent can provide a course with more natural beauty and better playing conditions throughout the golfing season. This is brought about by the increased control the Superintendent has over the water which, in turn, dictates the quality of grass grown.

Looking from both agronomic and golfer standpoints, the following are a few of the many reasons an automatic irrigation system will benefit the modern golf course today.

Central Programming — Central programming has been developed to provide for the complete control of the irrigation system from one central location, usually the Superintendent's office. The purpose of the Central Programmer is to activate the Field Controllers simultaneously by means of automatically controlled timing clocks, or manually. These field units are located throughout the golf course in close proximity to the valves being controlled. In addition to initiating the normal irrigation program which is set in the field units, the Central Programmer is the means by which the syringe cycle is activated. When the desired syringing is completed, the Field Controllers are returned to the normal program.

Less Labor Involved — Since automatic irrigation is a one man operation that requires little time to program the system, your labor costs will drop considerably. One Superintendent who recently had an automatic system installed on his eighteen-hole golf course stated that his normal crew of fifteen men during the golfing season was dropped to thirteen men. The two less men were night water men paid at a 50 cents hourly shift premium. The estimated savings was between \$5,000 and \$6,000. In addition, savings of \$2,000 to \$3,000 were made by having the syringe cycle that replaced the men he used for hand watering greens and tees for dew or fertilizer.

Less Chance of Overwatering — Until automatic watering was introduced, the Superintendent had very little control over the amount of water being applied to his golf course. The irrigation program usually consisted of sending out the watering crew to change the settings every one half hour to one hour depending on the grass requirements and type of water supply. In some cases too much water would be applied between the settings because they did not have sufficient time to make the rounds. In addition to this, he would sometimes be required to "dump" the water on in order to maintain the turf through periods when help was not available, such as a holiday weekend.

Overwatering results in serious soil compaction and weakens turf and destroys resiliency. A vigorous turf and the right mixture of soil along with the proper amount of water will provide the qualities necessary to hold the golfer's shot that is well played. Nothing is more discouraging to a golfer than to see a well placed shot bounce or roll over a green.

In addition to the above, excessive moisture causes the roots to become shallow and restricted, which, in turn, makes the turf more susceptible to disease. Along with this excessive moisture produces lush grass and thus, makes it more prone to disease infestation.

Conservation of Water — In a time when the public has become conservation conscious due to the increased population growth and industry expansion, there is increasing concern about the impact this growth will have on man's environment. With today's golf courses being maintained primarily by chemical means rather than mechanical tools we should consider the effects of overwatering and how it can produce runoff that may cause pollution if allowed to enter public waterways. By use of today's automatic systems, we can better control runoff and help conserve our most important resource by our ability to apply water in light frequent applications.

Ability To Help Control Disease — Disease prevention goes hand in hand with the problem of overwatering. The organisms that cause serious turf disease develop most rapidly when soil moisture is high. The fungi that cause turf disease need liberal quantities of moisture for germination of spores and sclerotia, and to keep the mycelium strands growing actively. The latter are very delicate and cannot withstand drying out. Saturated soils and high humidity create ideal conditions for their rapid development along with poor drainage and excessive rains which keep the soils waterlogged for long periods of time. Heavy dews that keep the foliage wet for long periods of time is a big factor that favors fungi growth. This is where the irrigation syringe cycle proves to be very beneficial. With this cycle dew can be removed from the entire course in a matter of minutes.

Wilt Prevention — Turf can be protected against wilting in periods of hot, windy weather by frequent applications of limited quantities of water to reduce transpiration rates and soil temperatures. Wilting occurs when plants transpire (evaporate) water from the leaf surfaces faster than the roots can take it up from the soil. This is another application where the syringe cycle is successful in providing the needed moisture.

Grass Type Selection and Plant Establishment — Since turfgrass varieties require different amounts of water for proper growth and development, the controlled use of water by means of an automatic system will enable the Superintendent to select the type of grass that is best suited for his course. For instance, those grasses such as bentgrass and *Poa Annua* possess shallow root systems. These grasses will require frequent watering as compared to the bluegrasses and fescues which have a deeper root system that can withstand less water. The reason for this is the greater surface area of the deep rooted plants. In cases where a deep rooted plant has shallow roots it is possible to increase the surface area by watering less.

The automatic irrigation system is also beneficial in establishing new seedlings and vegetative plants because you can apply light frequent applications of water that will not wash, puddle, or crust the soil surface.

Prevention of Winter Drying — In cases where you have limited late season rainfall and/or little snowfall through the winter, excessive drying out (desiccation) of the grass may take place. With an automatic sys-

tem it is possible to turn on the water during the winter to restore the needed moisture on the upper level of the soil.

Control Placed In The Hands Of An Expert — Since water comprises 80% or more of the grass plant and between 500-600 pounds of water is required to produce 1 pound of dry matter, it is a small wonder of the importance of proper water management in maintaining a high quality golf course.

It is impossible for any one to tell the Superintendent what the proper water management is for his golf course. The amount of water required will depend upon the type of grass, the locality, and the physical characteristics of the soil. With an automatic system the watering program is placed in the hands of an expert, the Superintendent. No one knows better than he the requirements of his golf course.

During the past decade we have witnessed a phenomenal growth in the number of golf courses in the United States. Such factors as more leisure time due to shorter work weeks, better access to golf courses by means of interstate road systems, and more money to spend on recreation (taking into account inflation) have all contributed to the increased popularity of the sport of golf. In order for us to cope with the heavy play brought about by these factors, we must think management. For the reasons stated in this article, automatic irrigation on today's modern golf course is one of the prime requisites for proper turfgrass management.

Ron Graves
Chicago Sales Engineer
Miller Sprinkling Systems



Since fivesomes were not allowed, it is up to you to convince yourself that there are only four pictured here.

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Excerpts from Remarks of

Richard B. Ogilvie
Governor of Illinois

"Pollution Solution Plot" Program
 Arcola, Illinois — July 29, 1971

Few people appreciate the dimensions of the incredible revolution that has taken place on America's farms in the past quarter century.

It is a chemical revolution, and its impact on life in this century would be difficult to measure. Statistics alone—while only the tip of the iceberg—tell an impressive story.

Approximately the same number of acres were harvested in the United States as in 1910, sixty years ago. Yet the crop yield from those acres was about twice as great last year . . .

While the nation's population was more than doubling, we not only managed to make Americans the best-fed people on earth, but also sent increasing amounts of our farm products overseas—an estimated \$7 billion worth last year alone.

With about 6 per cent of the world's population and its total land area, we produce—according to statistics from the mid-1960's—about 65 percent of its soybeans, 45 per cent of its grain corn, and 30 per cent of its oats and cotton.

With all due respect to the diligent and inventive American farmer, a record like this didn't happen be-

cause he worked twice as hard or had three times better weather than his compatriots in faraway places.

We compiled this remarkable success story because American technology has developed the tools and the chemical agents to maximize the use of our limited supply of productive land . . .

I am here today to call attention to this demonstration, which has been made possible through the combined efforts of the Arcola Chamber of Commerce and the Douglas County Extension Council.

I regard it as an important demonstration—not because it suggests all the answers to the agricultural challenge—but because it tells a story which has been obscured by the growing concern for the environment.

The ecological movement has identified fertilizers, insecticides and herbicides as ominous threats to our precious natural environment.

The dangers do exist. No reasonable man can deny it in the face of substantial scientific evidence. And we can ignore those dangers only at our own peril . . .

But there is a danger from the other side as well—the danger that we may throw out the baby with the bath water.

If this plot of land here suggests anything to us, it is that we cannot afford to return to the farming techniques of a century ago, when the chemicals in use here were unknown.

The skyrocketing demands for food, and our limited supply of fertile land, make any such suggestion unthinkable—and irresponsible.