

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

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## PRESIDENT'S MESSAGE

The game of golf is a terrific sport!!! You know why??? Because the finest people on this earth, the golfer, make it this way.

Let me clarify my opening words with the following message. This past month the Aurora Country Club golf course played host to a Friday-Saturday golf event, traditionally called Borealis Days. It is a member-guest event that always turns out to be the highlight of the year. On the eve of the opening day of this event our golf course was mowed and trimmed and ready to go. The following morning brought two things to our golf course, one hundred eighty eager golfers and rain, the latter of which we did not need at all. Many arrangements and a great deal of preparation had been made and with the many out of town guests involved the show had to go on. Much rain fell, leaving the course quite saturated, but the show went on - golf carts included. Ninety nine percent of the people that participated displayed total respect for our turf. The golfers showed their true love of the sport of golf and the course it was being played on. I inspected my golf course the following morning (Sunday) and felt a great deal of pride in the fact that minimal damage was caused under horrendous conditions. You know why??? Because the finest people on this earth, the true golfer, made it this way.

Carl G. Hoppman

### TUCO TURF SCHOLARSHIPS AWARDED TO TEN COLLEGE STUDENTS

KALAMAZOO, Michigan--Ten college students at six universities have been awarded Turf Scholarships by representatives of TUCO, Division of The Upjohn Company.

The cash awards of \$500 to one student or \$250 to two students from the same college have been established to assist turf grass students in meeting their educational needs. The scholarships are awarded for scholastic ability, personal integrity and professed career interest in turf grass management.

Seniors in turf management receiving awards for 1977 are Richard Duggan and William Flore, the University of Massachusetts-Stockbridge; Matthew Lindner and Kenneth De Busscher, Purdue University; Michael Stanovcak, Pennsylvania State University; Jerome Ducker and Steven Ross, Michigan State University; Grover Parker, Virginia Polytechnic Institute; and Guillermo Lozano and Dennis Orsborn, California State Polytechnic University-Pomona.

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*The above picture was taken at one of our MAGCS meetings many years ago. How many can you identify, and at which club was it taken? Send me your answer. The correct names will be in one of the following issues. Good luck. Who knows what you may win—if anything?*

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FROM: W. H. Daniel, Executive Secretary  
Midwest Regional Turf Foundation

RE: CHANGE IN PLANS!

**No Midwest Turf Field Day 26 September 77!**

There must be some reasons:

1. There is a special Turf Research Support Day built around golf at Orchard Ridge Country Club in Fort Wayne, Indiana, on 12 September. Chris Schenkle is to be the speaker (without fee). Contact MRTF Vice President Bud Camp, 5208 Renfrew Dr., Ft. Wayne, IN 46815, Tel. 219/485-6828, and get a team there. It is planned to have an informal MRTF Board of Directors meeting after the dinner at Orchard Ridge Country Club.

2. Some turf plots at the Purdue Agronomy Farm are being renovated. We are continuing our research with grasses. Have a new variety, Wabash, under seed increase and being submitted for patent. We are continuing to work with dwarf type bluegrasses at a modest rate.

3. Also, a special Chemicals for Turf Use Seminar, which is related to certification, will be held October 10-14. Both Ray Freeborg and myself will be heavily involved in that.

4. Meanwhile, the phone seems to be busier than ever. Turf students will soon be back for 1977-78 and teaching will require much time.

So, please pass the word: **No Midwest Turf Field Day in 1977.**

P.S. - The Midwest Regional Turf Conference is scheduled for March 13-15, 1978, a little later than usual.

## THE SYSTEM

Suppose the government gave everyone a million dollars. "Wonderful!" you exclaim. "I could quit work and live like a king." And so you could—until you tried to do such an unkingly thing as buy a quart of milk or a gallon of gasoline. You see, the milkman and the filling station attendant also got a million dollars. They quit working, too. And so did everyone else. It quickly becomes apparent, doesn't it? Money has no value itself. It's so much paper or bits of metal. Only work (and the things work produces) has real value! But, obviously we couldn't go around exchanging work. It would be a cumbersome process. So we let money represent work — use it as a medium of exchange. We work for someone and get money. We use money to buy the work (products, services) of others. That's the system. To make it function properly, all persons, who are able to work, must strive to give as much value for the money they receive, as they expect to get for the money they spend. Some people do this. And some don't. Some do shoddy work. But, when they buy a new car or TV or washing machine (the work of others), they demand top quality workmanship — the very best. They don't seem to realize that the people who buy their work or service have a right to expect the same thing. What these people are really saying is that they want as much of the other person's work as they can get—giving him as little of their efforts as possible in return. These people think they are beating the system. They're not, of course. They are only putting a greater—and often unfair—burden on someone else who is trying to follow the rules. If we expect to get full value for what we spend, we must expect to give it for what we are paid. Man has reached the moon; eventually he will go beyond. But it isn't likely he will ever figure out an honest way to beat the system.

## CHARACTER

A man was brought before the judge for a petty offense. The judge asked if anyone present could vouch for his character. "To be sure your honor, there's the sheriff."

The sheriff looked amazed. "Your honor, I do not even know this man." "Your honor," came back the Irishman quick as a flash. "I've lived in this country for more than 12 years and the sheriff does not know me yet. Isn't that a character for you?"

## MIDWEST MEETING DATES

September 22 -	Calumet C.C.
October 17 -	Wisconsin Joint Meeting
November 9 -	Annual Meeting Midwest C.C.
November 19 -	Dinner Dance - River Forest C.C.

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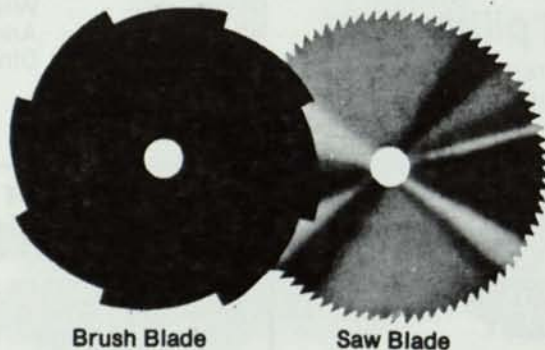
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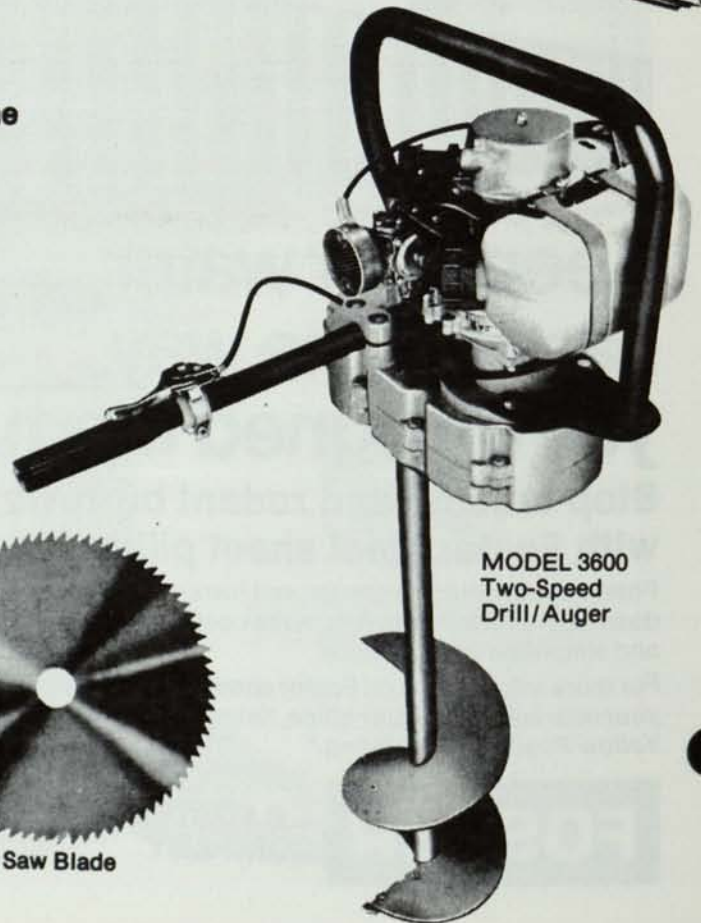
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## GOLF'S 'GREEN BELT': FRESH AIR AND TAXES

Golf is not only big business, the courses are a boon to the environment.

It's more than just the beauty, too. As Maryland forester **A. R. Bond** explains:

"One tree has the cooling effect of five air conditioners. Noise levels are reduced by six to eight decibels by green belts 100 feet wide.

"One acre of growing trees will scrub clean the air polluted by eight automobiles operated for 12 hours. The same acre will absorb the carbon dioxide produced by 50 autos during 12 hours.

"A green belt less than 300 feet wide will produce the same effect on the atmosphere as a one-mile increase in altitude."

Now, one has an idea why things seem so tranquil on a golf course.

In the Chicago area, private and public courses that are privately owned keep 25,000 acres in green ... green like in grass and trees and green like in tax money. Each course will pay from \$50,000 to \$112,000 in real estate taxes, depending on the county.

Even though clubs pay community taxes for services, they provide their own water, garbage disposal, and police and fire protection.

The average club that belongs to the Chicago District Golf Association has an annual cash flow of \$3.25 million. The value of its land and buildings is from \$10 million to \$12 million.

It employs 135 people in the summer and 45 in the winter. It spends about \$200,000 annually in maintenance of the course, tennis courts, swimming pool, and grounds, with \$160,000 going into payrolls and jobs. The average club has a restaurant payroll of about \$175,000 and has a training program for students in all club jobs except the golf shop.

In the Chicago District, there are 113 private clubs employing about 15,000 people and 100 privately owned public courses providing about 9,000 jobs. The total payroll is \$90 million.

In addition, about 20,000 caddies work at these clubs, averaging about \$1,200 if they work most of the summer.

Nationally, there are 12,306 golf courses that keep 1,230,600 acres in green. Other national statistics show the popularity of the game:

- 300 million rounds of golf are played annually.
- 12 million people play 15 or more rounds per year.
- 4 million people play fewer than 15 rounds.
- Private clubs represent 2 million golfers.
- Public courses represent 5.25 million golfers.
- Other courses (municipal, etc.) represent 4.75 million golfers.

The National Golf Foundation estimates that \$4,075,000,000 is invested in land and buildings and \$615 million is spent annually on maintenance.

How big a business is golf? In 1975:

- 18,734,840 golf clubs were sold at an average cost of \$11.11 for sales of \$208,284,377.
- 14,107,022 dozen balls were sold for sales of \$95,676,628.
- 1,821,621 golf bags were sold for \$30,756,000.
- 1,350,126 pairs of golf shoes were sold for \$25,933,583.
- 1,664,396 gloves were sold for \$5,485,425.

Other miscellaneous sales came to \$15,286,384 for total sales in 1975 of \$382,995,288.

In addition, 40,000 new golf cars were purchased in '75 at an average cost of \$1,200 for \$480 million. There are 446,500 cars in use, with electric outnumbering gasoline models 3-1. There were 119,396 pull carts sold in '75 for \$1,171,901.

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Editor

## MIDWEST BREEZES

**Robert Siebert**, former Supt. at Naperville C.C., has recently resigned and formed the **Fox Chase Landscaping, Ltd.** Bob's many years of experience in golf course work sure qualifies him for a place in the landscaping field. Office phone: 312-393-1199. Home phone: 312-393-1403.

**Jim Dinelli**, son of **Frank** and brother of **Joe**, super at North Shore C.C., has accepted the position as Supt. at Naperville C.C.

**Mike Bavier**, Supt. at Inverness C.C., reports he had visitors at his maintenance building one night and they helped themselves to various valuable items.

By the date you receive this **Bull Sheet** the weather should be more favorable for fine turfgrass found on golf courses. This has not been one of the most enjoyable years for the one being responsible for the playing condition of a golf course. With few cool days and nights along with ample moisture, the **poa annua** will be making its usual fall appearance and all will be forgiven.

On August 3rd this editor had the pleasure of attending the Illinois Landscape Contractors Field day, at Huntley, Ill. It was not my first field day, but it sure was the best and most interesting one. It had an attendance of over 2,000 and over 100 exhibitors. Various commercial companies could show and demonstrate the many products that they distribute. A field day such as one of this kind is sure more beneficial and less costly to the exhibitor than one that takes place indoors in a large city. The nice thing about it is the local dealer can show his merchandise to his local customers, and it gives him an opportunity to visit with each one rather than making calls at their place of employment. It is my belief that of the 2,000 plus attendance, 75 percent were potential buyers. This is a better percentage than one would find at a national show. This brings up a thought that may be worth investigating: that the G.C.S.A.A. put out some feelers to the local companies that deal in products for landscapers, roadways, cemeteries, parks, golf courses, sod and tree nurseries.

Something along this line had been mentioned some years ago. A more serious effort should be used, because we have been following along the same road for fifty years. Times have changed, people have changed. Our profession should modernize and keep up with the present day of functioning.

The **Bull Sheet** editor has been informed that a problem is brewing in the **G.C.S.A.A.** office in Lawrence, Kansas. I hope this will receive immediate attention while it is simmering and not wait until the kettle boils over.

The Green Acres Country Club of Northbrook, Illinois has decided to install a new automatic irrigation system, pumping plant and water supply on its property. Charles E. (Scotty) Stewart has been retained as the design engineer.

## SOS

I understand that there are approximately 500 plus people who receive the monthly **Bull Sheet** and we all know that Ray Gerber has done an exemplary A.A. job.

Many of us never take into consideration the amount of time that is required to put this publication to press each month.

What have you done as a reader or a member of the Midwest to contribute some copy for Ray? If each member would take and sit down and write one short article on a bit of news he would have no problem at all and make his job a lot easier and we would all benefit from each others experiences and problems.

My information is that Ohio has tried it and it has been successful.

My remarks are just a little food for thought. If others can do it so can we, and with a little extra effort maybe better.

We all have a part to play in this business and some of us have been sitting on that proverbial POT TOO LONG. So get the lead out and do your bit as a member of the Midwest Golf Course Supts. Assoc. and take 10 minutes of your precious time and contribute something at least once a year.

Personally I feel it should be mandatory that each of us in order to be a member; write an article at least once a year.

Here at Brookwood C.C. this summer we had installed 4 new cement reinforced concrete bridges, 8 feet wide, 75 feet long and 20 tons each, using a 90 ton crane, tore out 4 old bridges and setting 4 new ones all in ONE DAY. This was a major improvement for the cause which appeared the Illinois division of waterways and the membership and enhanced the area completely.

Also we installed a considerable amount of new black top cart path on the back 9. But I still wonder if the golfers know what they are used for!

We also procured a very fine used Ford 4500 loader and something new, a Jackson 5-n-1 Lawn Finisher which is a combination scraper box, rake, roller, pulverizer, grader blade scarifying teeth, with a hydraulic top link which allows you to do a number of jobs without having to change tools on your tractor.

July as we all know was a month of WAR with nature and we all had other problems or so I hear. Fortunately I think I lucked out. We had Big Brown on one green, some dollar on 3 other greens, a trace of fusarium on some fairways, along with losing some Poa on the back 9.

I attribute some of this luck to having held back on nitrogen on the greens. This season so far I have applied 2.25 pounds.

I would estimate that we lost a possible 1% of turf due to disease and heat so far this year. The Man Upstairs sure has been answering my prayers for HELP and guidance. I know I don't have all the answers.

**Leonard Schnuff, Supt.**  
**Brookwood C.C.**



**Reprint from A PATCH OF GREEN  
DECONTAMINATION OF SPRAY EQUIPMENT**

Thorough cleaning of equipment not only reduces the possibility of crop injury from herbicides left in the tank but extends the life of the equipment. Since herbicides vary in their chemistry and the way they are formulated, there is no standard procedure for decontamination. The most important step is to use a rinse material which acts as a solvent for the herbicide.

Repeated rinsing with water is usually sufficient for removing the wettable powder suspensions of compounds such as phenyl ureas and triazines. The sprayer should be scrubbed and rinsed with water several times and the residue emptied on an area where there is no danger of contaminating water or injuring crops. Operation of the pump for at least 3 minutes will remove contaminants from the boom, hoses, and nozzles. Addition of detergents will aid in the cleaning operation but should be followed by a clean water rinse to remove any detergent which might reduce the selectivity of the next herbicide to be used.

Salts of 2, 4-D, banvel, and picloram are relatively water-soluble, however, the spray equipment should be rinsed with water and filled with a strong solution of synthetic detergent or 2 lbs. of washing soda per 100 gallons of water. The mixture should be left in the sprayer for at least 24 hours and rinsed with a second detergent or soda mixture before final rinsing with water. Always spray some of the mixture through the system before mixture through the system at both the

beginning and end of the soaking period. An effective and rapid but more expensive method is to rinse the system for at least 5 minutes with a 1% solution of activated charcoal. This should be followed with a thorough rinse of clean water. The use of activated charcoal eliminates the need for a long soaking period.

Oil-soluble herbicides such as 2, 4-D esters are usually the most difficult to remove. The preferred choice is to have a separate sprayer for these materials only. If this cannot be done, the system should be filled with water and household ammonia (1 qt./25 gal. of water) and left to soak for 24 hours. Do not use ammonia if any part of the system is made of brass.

Kerosene and fuel oil can be used as an alternate means of removing oil-soluble herbicides, however, enough of the oil has to be put into the tank to enable the pump to circulate it adequately throughout the system (do not use oil on parts made of natural rubber). After the tank has been scrubbed with oil and rinsed, a wetting agent in the water will help remove the oil. Regardless of which method is used, it is important to circulate the cleaning material throughout the system and thoroughly flush with clean water.

Chemicals other than ammonia, charcoal, oil or wetting agents are not recommended for cleaning spray equipment. Some chemicals may remove the odor of herbicides without affecting the active ingredients and be misleading. The absence of odor cannot be taken as an indication of decontamination.

**Greg Patchan**

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