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**President's Message**

As I sit my desk watching the snowflakes fall, I can't help but wonder why the two group functions we schedule for November are so poorly attended. At the annual meeting, where the officers and directors for the coming year are elected, we always have a difficult time getting fifty superintendents to attend. As a member of a professional organization, I would consider attendance at the annual meeting a must.

The same thing holds true of the annual dinner dance. This year, out of 32 couples in attendance, 11 were superintendents. It is embarrassing to have a dinner dance for the members and their wives, where only one-third of the total are superintendents. Do we have a problem with costs, location, time of year? Your feedback on this matter would greatly be appreciated by the board of directors. We would like to make annual meetings, as well as the dinner dance, functions that are as well attended as our meetings where we play golf. I have instructed the chairman of the arrangements committee to look into these problems so that we may remedy them for next year.

I am sure many of you are making your plans to attend the GCSAA conference and show in Washington, D.C. The M.A.G.C.S. will again have a room with your favorite spirits and some munchies. Be sure to stop by and share some of your experiences with your peers. Our voting delegate at the conference is Len Berg. If you have a candidate that you feel strongly about, please let Len know and attend our caucus where we decide how we want Len to cast our M.A.G.C.S. vote.

On a more local note, if you have not signed up for the G.C.S.A.A. seminars at Pheasant Run Resort in St. Charles in January, you should do so now. They are filling up rapidly. Pete Leuzinger has done a tremendous job in bringing these quality seminars to the Chicago area and I would hope that both will be filled to capacity.

**Joe P. Williamson, C.G.C.S.**



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### CEU's Awarded for NCTE Attendance

Continuing education units have been awarded for attending the North Central Turfgrass Exposition in part or in full. The CEU points have been broken down, with the following value being assigned to each individual portion of the three day conference as follows:

#### Tuesday, December 11

Workshop I, "Patch Diseases in Turf: Introduction"; .15 CEUs  
Workshop II, "Computer Communication"; .15 CEUs  
Disease Symposium; .25 CEUs

#### Wednesday, December 12

Grounds Turf; .20 CEUs  
Landscape Contractors; .25 CEUs  
Midwest Clinic (all day attendance); .45 CEUs

#### Thursday, December 13

Lawn Turf (all day attendance); .50 CEUs  
Central Illinois Clinic; .20 CEUs  
USGA Green Section Seminar; .25 CEUs

In order to receive these credits you must have attended the specific portion of the program in which you are interested in receiving credit for in full. Also, your attendance must have been verified for each individual portion for which you are seeking credit; this being done by having signed the attendance record and listing your GCSAA membership number next to your name. If you completed the preceding requirements your name and information has been forwarded to the GCSAA headquarters. The appropriate CEU point amount will be awarded towards maintaining your status as a Certified Golf Course Superintendent.

The 1984 education committee is proud to have served the membership and is equally proud of the advancements made toward continuing education at this year's Midwest Clinic. We would also like to take this opportunity to thank all those who participated in this year's Midwest Clinic program by volunteering their time and effort to help further the educations of all those who attended the NCTE in December.

**David Behrman**  
Education Committee Chairman

*The following letters were sent to me by Charlie McGinty of the McGinty Bros. Inc., a professional lawn and tree care company. The town of Wauconda, Illinois has passed an ordinance requiring pest controllers, lawn care companies and anyone else involved with pesticide application to pay license fees and post warning signs. If this action gets carried away and other towns pick it up it could mean drastic changes for us in the golf course business. I fully recommend that everyone read the letters and then go the proper people and ask for money to help support this cause to abolish these rules regulating pesticides in this way.*

**Fred Opperman, editor**

September, 1983 Wauconda amended and passed a 1963 unenforced ordinance that required pest controllers, arborists, lawn care companies, and others involved with pesticide applying to pay license fees and post warning signs. The ordinance has since gone through two revisions in February and July of 1984. In response, many related professional applicators formed an association called IPM (Illinois Pest Managers) and attempted to get the village to compromise their requirements. This attempt was unsuccessful, as Wauconda was unwilling to listen to IPM's suggestions.

In the Spring of 1984 IPM members recruited help from the Illinois Department of Agriculture to request the opinion from the Attorney General. Hopes were that the A.G. would rule that FIFRA (Federal, Insecticide, Fungicide, Rodenticide Act) mandated pesticide regulation should not extend below the 50 state level and therefore a municipality attempting to regulate pesticides was illegal.

At the same time in the Spring most members of the IPM discontinued servicing existing customers and offering service to anyone in Wauconda as a display of dissatisfaction with the ordinance.

By late summer the "Wauconda Ordinance" had reached awareness with many "Environmentalist" groups who began distributing information on it throughout many states. Word continues to reach us on other cities and towns looking at instituting the Wauconda Ordinance.

Because of the above and the fact that the Illinois Attorney General has not come forward with a favorable opinion IPM has decided to go ahead with a law suit in Federal Court.

The Pesticide Public Policy Foundation (3PF) led by Dave Dietz will be representing IPM's interest in the suit by acting as Plaintiff. 3PF has employed Sidley and Austin, a nationally known law firm from Chicago, to represent them. Sidley and Austin has category experience dealing with pesticides, hazardous chemicals, and EPA issues.

Dave Dietz said, "It seems to us only fair that there be no ordinance enforcement during this time. After all, the pesticides used by our members are the same as those available to homeowners off the garden store shelf. Why professional, trained, licensed applicators should be discriminated against, but untrained pesticide using homeowners are left untouched, is beyond us."

3PF expects to bring its suit within the next two weeks.

**If you do not want any more regulations over the use and applications of pesticides, you should read this ...!**

As you are probably aware, the Village of Wauconda has adopted a local ordinance which establishes increased regulations over pesticide applying. This ordinance requires commercial applicators to:

1. Register with the Village of Wauconda
2. File an application and pay the Village a \$25.00 fee
3. Post notification signs
4. Gain permission from a property owner to apply a pesticide, and among other things
5. Pay a maximum \$500.00/day fine for violations.

(cont'd. page 4)

The Pesticide Public Policy Foundation, (3PF) through local efforts is bringing suit against the Village of Wauconda to settle this dispute.

As you know, this process will require financial resources. If we, who rely on the availability of pesticides and other use and application for our economic livelihoods, do not help we will undoubtedly face new and more severe ordinances than the ordinance adopted in Wauconda. The only difference is that the ordinance which is passed may be in your specific area.

**This process of challenging Wauconda will not occur without your help!**

The process has begun ... for your information I have attached a copy of a news release along with a letter which has been sent to the Village of Wauconda regarding the ordinance.

We need your help ... more importantly, you and your own business needs your help.

The pesticide battle lines are drawn.

They've been drawn by 3PF - The Pesticide Public Policy Foundation - because the Wauconda ordinance, and the ones that will surely follow in other areas, will cripple our business. The Wauconda ordinance is already being picked up and used as a "model ordinance" in other parts of the country.

Therefore the battle field will be the **federal** courts. We're convinced that local governments don't have the right to regulate pesticides in any manner.

**The significance of this challenge is immense.**

If we don't challenge this ordinance, we will allow many of the 80,000 local government jurisdictions across the U.S. to pass similar ordinances. Would you or would your business opportunity be enhanced with a few new ever changing and additional rules or regulations to deal with?

Once the regulatory foot's in the door, watch out! For example, other jurisdictions are pushing spraying pre-notification to neighbors within 1000 feet of the spray place - by certified mail!

If we don't take a stand, we might as well start running.

So we ask you - stand with us now - personally and financially.

This District Court Case will likely cost us \$25,000 - \$50,000, but with 3PF's experience, the strength of our legal arguments and the expertise of our law firm, we'll win with your help.

We need your dollars now! The ball's rolling, we're on the offensive and, for a pleasant change, we have a chance to control our own pesticide use destiny.

Help us with your contributions to the 3PF defense fund today. You'll never make a better investment in your own and your customers future.

Make your check payable to the 3PF Defense Fund/Wauconda and mail to - Charlie McGinty, McGinty Bros., Inc., 3524 Long Grove Rd., Long Grove, IL 60047.

I will look for your check and forward it to 3PF immediately.

**Charles P. McGinty**  
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## Installing an Irrigation System with the Use of a Vibratory Plow

by Joel Purpur, Supt.  
Bartlett Hills Golf Club

As the 1984 season comes to a close, project plans for the coming season become more concrete. If irrigation work is in the planning, you may want to consider using a vibratory plow and pull in the smaller diameter pipe.

At Bartlett Hills Golf Club we're installing a new irrigation system in-house. With a tight budget for course improvements, we decided that a single row quick coupler fairway system with manually operated pop-up sprinklers on greens and tees was the best we could do for the money available. Trenching the main lines and plowing in 2½" and smaller diameter pipe were the methods chosen for installation.

Fairways at Bartlett Hills had no irrigation, and with little topsoil on much of the course, I had my doubts on how well the plow would work through the dry, rock hard clay. With very little practice of vibration frequency versus ground speed, the worst of soil conditions were sliced with little problem.

Pulling in pipe is much faster with less mess and settling than trenching, backfilling, tamping, and sodding. Some say pulling in pipe causes permanent mounding, but if the depth of the "bullet" on the plow blade is kept at a desired depth of 18" - 24" very little mounding is left after driving over the area with the wide floatation tires or a heavy roller.

A case model DH-4 was rented from Case Power and Equipment in Bolingbrook. The machine is diesel powered, 4 wheel drive with articulate steering which is great for maneuvering over and around banks on greens and tees. The "bullet" on the bottom of the plow was about 6" diameter. A 6-8" chain coupled the "chinese finger" (made of braided steel strands) which slips over the pipe and pulls the pipe through the tunnel made from the vibrating bullet. A fence post cap fit perfectly on the end of the 2½" pipe, preventing the pipe end from being damaged and kept soil out of the pipe. The end of the chinese finger was taped which kept it tight and prevented soil from caking on the end of the finger making it easier to remove at each interval.

A trench about 6 feet long and 2 feet deep was made every 80 feet where each sprinkler valve and swing joint was to be installed. All soil was kept on plywood and slid out of the way until backfilling and tamping. 80 foot sections of pipe were glued the day prior to use to help prevent the pipe from pulling apart. With the fence post cap taped over the pipe end, the finger slipped over the pipe as far as it will go, and the finger end taped securely, the plow blade is lowered into the trench to the maximum desired depth.

The vibratory plow is not activated until pressure is put on the bullet or damage to the shaker box could result. As the bullet enters the ground the vibration frequency and ground speed are increased. One man assigned by stepping down on the pipe giving the pipe a straighter shot into the bullets tunnel. Ground speed depends mainly on the soil and turf condition. Deep rooted turf in a good soil will yield a higher ground speed than shallow rooted turf in a dry, hard soil.

Vibration frequency is determined mainly by how smooth the machine rides. If you're operating the machine and your teeth start chattering and your eye balls are about to fall out, this is

(cont'd. pg. 7)

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(Vibratory Plow cont'd.)

a strong indication you'd better vary the plow frequency!

Constant checking of the plow depth is very important as drifting up and down is common. The larger the pipe that is pulled the more important it is to keep as straight a line as possible. Too much friction may cause the tires to spin, the chain to break or the finger to slip off if ground speed is not reduced. If you become disconnected you have to dig it up and re-connect. This problem shouldn't occur once you get the feel of the machine.

When plowing from one trench to the next, as the plow blade nears the open area, ground speed is reduced and plow frequency is carefully observed so damage to the shaker box does not occur when the plow breaks through into the trench. When the run is completed, the finger is removed and the pipe is tapped back into the gasket fitting in the previous trench. Pipe ends were beveled, lubed, and carefully inserted into the slip fittings to prevent damage to the gasket. 1½" pipe could usually be slide through the ground by hand, but the larger pipe needed to be tapped by a sledge, with a board over the pipe end to prevent damage. Once the crew got the system down the process went quickly. Two holes can be completed in a week, valves, thrust blocks and all.

Pulling in 2½" and smaller pipe definitely worked for us and is cutting the project time considerably with a minimum of ground disturbance. Talk to others who have worked with vibratory plows, pulling pipe may also fit your needs.

## MAGCS Survey

In response to the question in the MAGCS Survey concerning golf cart maintenance responsibilities we received the following answers:

A. At the private equity owned clubs there were 9 superintendents who were responsible for golf cart maintenance and 29 who were not. There was only 1 superintendent who was compensated for this additional responsibility.

B. In the privately owned and resort course group there were 10 responses and none of the superintendents were responsible for golf cart maintenance.

C. In the municipal, park district, and forest preserve group there were 3 responses and these were also negative.

In response to the question of the employer providing a vehicle we received the following answers:

A. At the private equity owned clubs there were 31 superintendents who were provided a vehicle and 7 who were not. Of those vehicles 24 were trucks and 7 were automobiles.

B. In the privately owned and resort course group there were 12 superintendents who were provided trucks and 1 superintendent that was not provided a vehicle.

C. In the municipal, park district, and forest preserve group there were 5 superintendents who were provided trucks and 8 superintendents who were not provided a vehicle.

It should be noted that in a number of cases where the superintendent was not provided a vehicle he was given a vehicle allowance.

MAGCS Survey Committee

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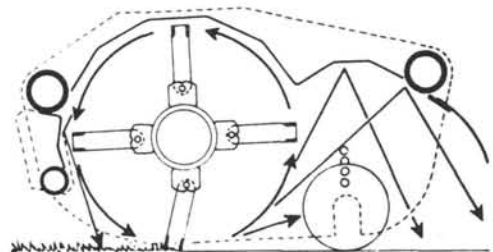


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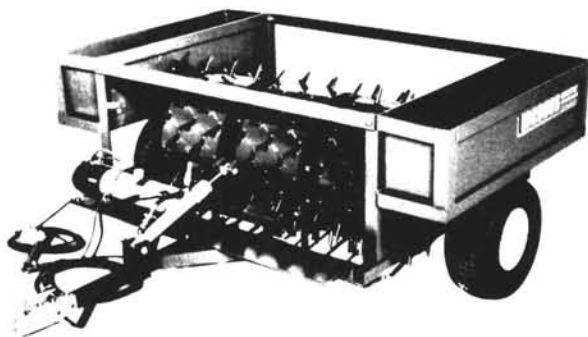


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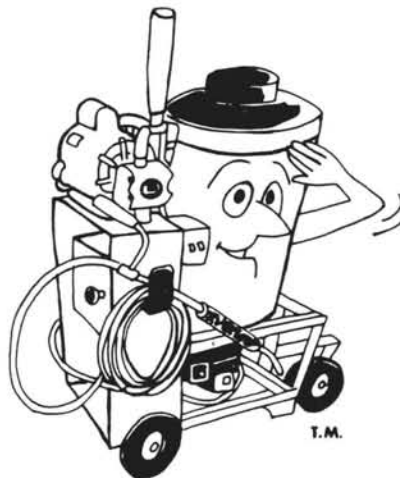
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## Golf in the 25th Century!

by John Stephenson, CGCS  
Potowonomi G.C., St. Charles, IL

I had a dream. Somehow, I was in the 25th century — right along with Buck Rogers!!! Everything was as I imagined it would be. All the buildings were of the futuristic design and it looked like the city of the future. After considerable sightseeing, where everything was accomplished by robots and computers. It was interesting to watch the people move. But, something bothered me ... I just couldn't grasp what it was. Something just did not look right. I was so engrossed in all the activities that I did not pursue the nagging feeling.

I had been sightseeing so much that I was becoming tired and was looking for a new event when I asked my host if they still played golf. "Certainly", was the reply, "It's a great game!! Would you like to play?" "Of course", I answered. We were soon on our way to the course. Upon arriving, there was one big surprise - nothing was there!! Just open space! My host explained that the game has been somewhat changed since 1984. "Somewhat" was just a mild explanation as I looked over the scorecard. The first hole was 538 mile par 5. I said, "What is this - a misprint?" "Oh no", my host explained, "just wait and you will see." They brought over a golf cart which turned out to be a small jet similar to what Luke Skywalker used in "Star Wars". It was loaded with all types of computers and screens. After getting into the car, we then flew to the first tee, which was an area of green light about 100 feet square. I casually asked, "where is the green?" He replied that the green halo just above the horizon was the green. He asked, "You're going to use a driver, aren't you? What else would you use on a 538 mile hole!" The club wasn't that unusual - it looked similar to what we used back home, except on the top of the grip were two switches. One switch was marked "D" and the other was marked "H". I asked the usual intelligent question — "What are those for?" "Simple", said he, "H is for height and the D is for direction. You turn them on and when you swing at the ray light, the computer will tell you the height, direction, distance and coordinates your shot." "Okay, here goes". I took my groove swing at the orange ball of light and it took off - dead left. The computer told me I had hit it a resounding 118 miles and 40 degrees off center and wound up in Section C at coordinates A7 & B5 which was an astroid trap and would require a one stroke penalty. Undaunted, we took off in our car and were soon at the place where my ball was at. Now, I'm umpteen hundred feet in the air and there is that little orange light blinking at me — my host pushed a button and a platform slid out next to the ball and I prepared for my second shot. After several attempts, we finally reached the putting surface, which was an area approximately ½ mile in diameter. Around the perimeter were numerous laser beams making the whole area with one continuous light of green. Putting was done in the same manner — lining up your shot, hitting the orange light, the computer letting you know where it went, so you could prepare for the next putt. After finishing the round, the score was tallied — the results of which will **never** be revealed. I had numerous questions; why in the sky; land on Earth too valuable, I was told. Why so long a course? Technology advancing on how far one could stroke a light ray and safety factor from all the air carts darting hither and yon. Also, the fact that so many more people are able to get on the course.

Needless to say, I enjoyed it, but again I had the feeling that something was missing. I just could not put my finger on it. Then, it dawned on me — NO GRASS!!! I had not seen one blade of grass here in the 25th Century. I asked my host, "where is the grass?" He was not even familiar with the word!! I then **HAD** to find out what had happened to the grass.

I was then directed to the Life/Science Museum. Upon arriving, I checked the locations of exhibits and found no mention of grass. Asking the Curator, he said he did not really know if they had any. I was becoming very upset about getting the answers to what had happened to the grass. Seeing my concern, the Curator said he would make some inquiries. Returning from his office with a young man, he told me that he would take me to the Living Plant Museum and there I could probably see what I wanted.

Upon entering this building, which was similar to a lot of our exhibits of today, I spied a patch of grass - way in the back. I was just elated!! This was the first grass I had seen here in the 25th Century. At that time the Head of the Plant Museum approached me and asked if he could help. I asked him to explain why this was the only grass I had seen. He replied that everything in the museum was on the endangered list. This happened due to the nuclear holocaust in the 21st century. Practically all living plant materials were obliterated. Many of the variations that had been found and were growing here, had not even been identified and he asked me if I knew what kind of grass it was. Upon closer inspection, I was in for a shocking revelation!!! The only grass to survive, out of countless varieties, was — standing, healthy, and vibrant POA — POA annua — the only one that had made it.

THANK GOD, at this time, I awoke.

-----  
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