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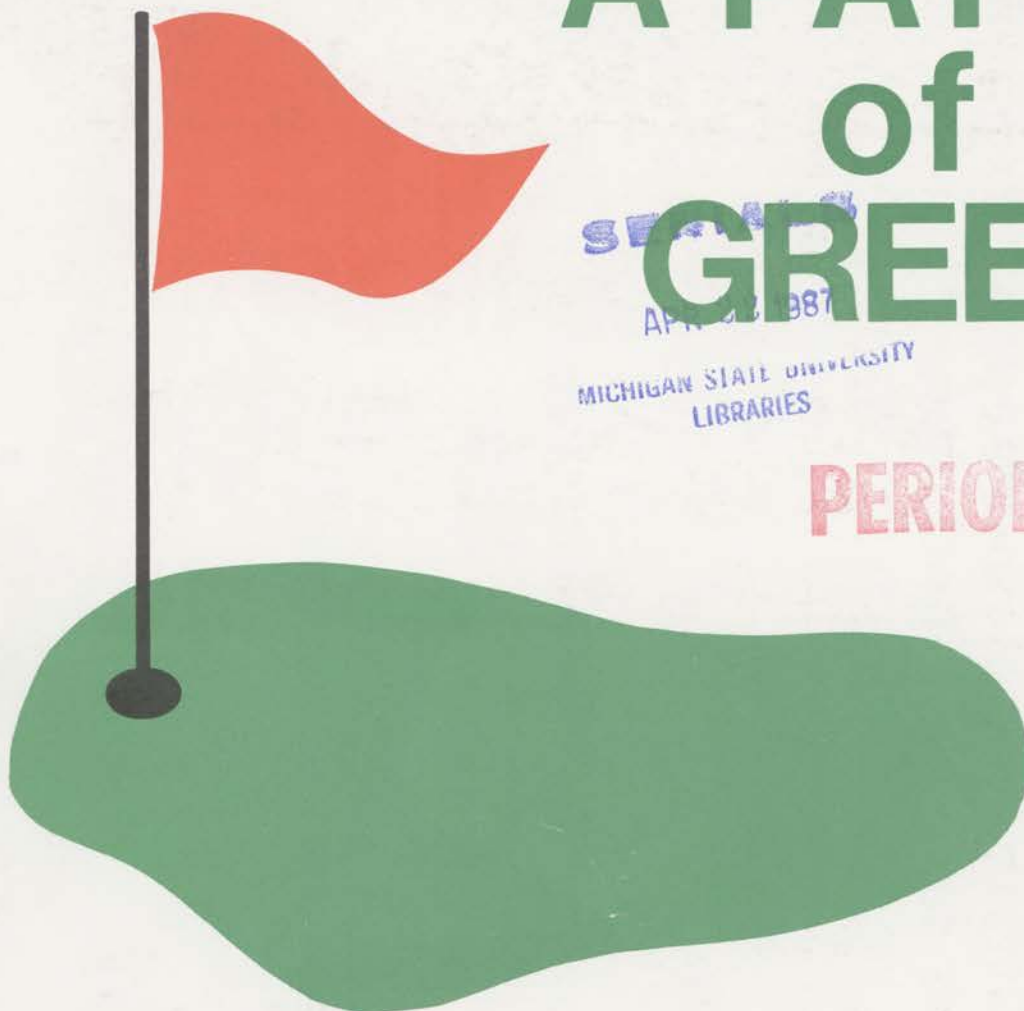
March/April 1987

62nd Year

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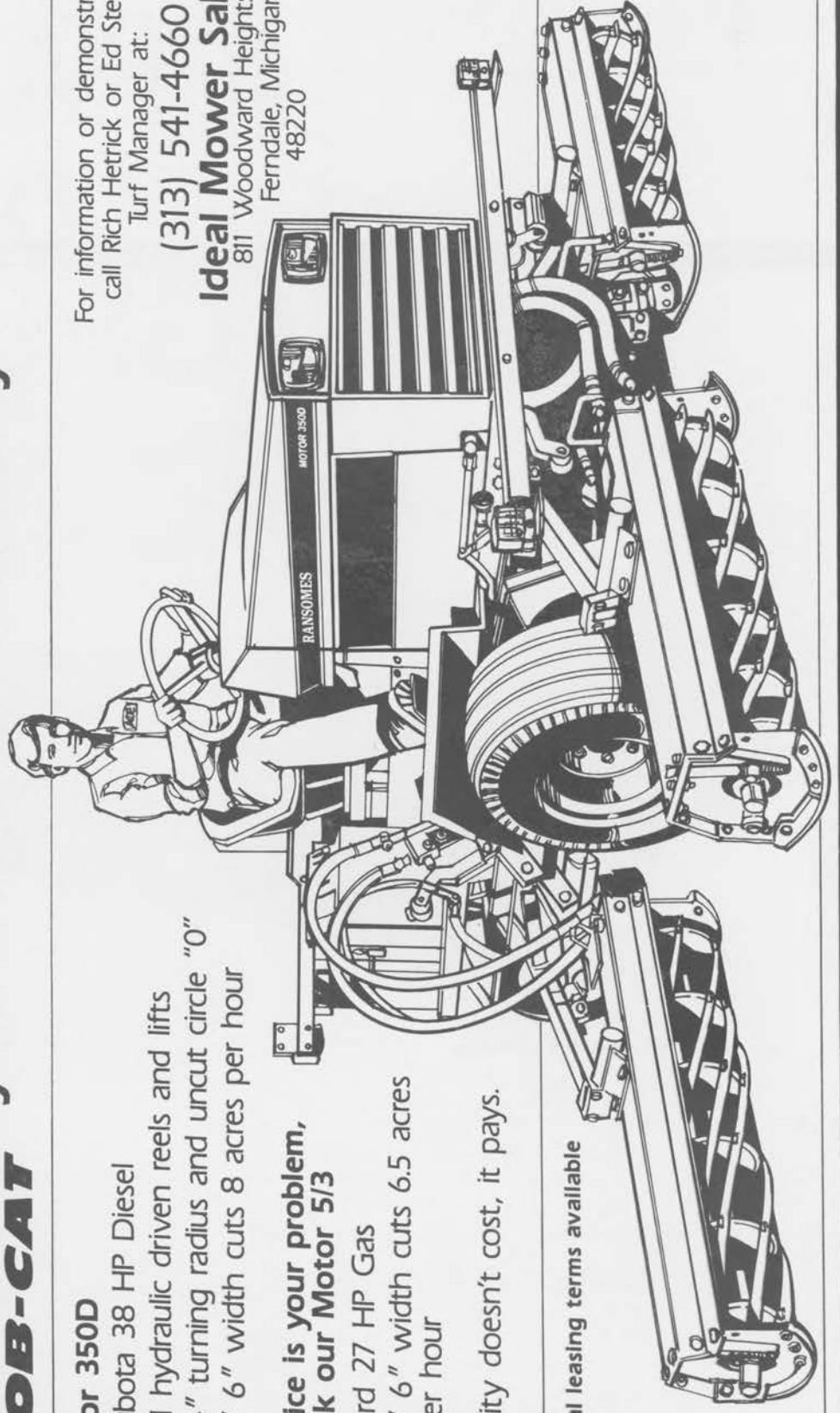
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## PRESIDENT'S MESSAGE

What does the future hold for the Michigan and Border Cities Golf Course Superintendents Association? Have we as an organization reached our ultimate goals? Is there a method to provide a possible plan for the future? The way I would answer these questions would be - "I'm not sure"; "I hope not"; and "Definitely yes".

No one person can predict what will happen in the times ahead and everyone will agree that improvement and advancement of any person or organization is necessary to upgrade our positions in the social and business structure of our society. By producing a plan for the future, or as it is so aptly named, 'a long-range plan', we are capable of increasing our productivity and usefulness to our employers, whether it is a private membership or a public golf course.

Every Country Club has a long-range planning committee to chart the direction of the Club for the years to come. Green Committees have tree planting programs, construction programs, equipment programs and other proposals to help determine their needs and goals for tomorrow. Our Association should be no different than other organizations. A long-range plan is needed to give us direction for the future.

The present Board of Directors are in the planning stages of developing a long-range plan for the MBCGCSA. The program will take time to implement, but I know once a viable strategy is determined, the course to the future will be clearer.

Here are a few programs that could be beneficial to the membership in the coming years:

1. **VIDEOTAPING** Record seminars, meetings and social events for educational and historical purposes.
2. **COMPUTER** Provide the secretary with a better form of recordkeeping.
3. **BENEVOLENT FUND** A rainy day fund for superintendents who may be unable to work due to illness or injury and they have no other financial support.
4. **INSURANCE** Purchase life insurance and possibly disability insurance for our membership.
5. **SECRETARY** Hire a part-time person to help run the daily operation of the Association. The work load is increasing every year due to continued growth and additional help may be required in the future.
6. **EDUCATION** Provide the best possible educational information to the membership by obtaining quality speakers and offering seminars.

These are just a few avenues that can be explored. There are many other ideas that can be approached to help our organization through the times ahead. Now is the time to plan for our future wants and needs.

There is no doubt that many of these programs are not feasible at this time. But a committee can determine the financial requirements of various programs and a reasonable dues structure implemented to institute many of the proposals.

I realize many of us are members of GCSAA. But they can only do so much for us at the local level. We must take the initiative and go one step further to provide services to our membership that may be unattainable from other sources.

We want to continue to make our Association a valuable tool for our positions as golf course superintendents by developing a long-range plan which will benefit all of us.

Kevin Dushane,  
President, MBCGCSA



### "A PATCH OF GREEN"

Published Bi-Monthly by the  
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COURSE SUPERINTENDENTS ASSOCIATION

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# P.O.G. RECOGNIZES ADVERTISERS

The Board of Directors of the Michigan and Border Cities Golf Course Association, along with editor Ted Woehrle of the **Patch of Green** recognized our advertisers at an evening cocktail party at the Pine Lake Country Club on Wednesday, February 25, 1987.

Among those attending were Ward Swanson, Past President of the Michigan and Border Cities when the **Patch of Green** was first printed in 1971 and Jerry Gill, also a Past President, who was Secretary Treasurer in 1971.

Sixteen advertisers including Gordy LaFontaine of Lawn Equipment Corp. who was instrumental in helping us select Blakeman Printing of Fraser, Michigan, were in attendance. Rich Briddick of Blakeman Printing was also present at the party. They have been the printer of our publication since its inception.

The party was a simple way of saying "Thank You" for the advertisers' continued support.

We all hope that our success continues and the **Patch of Green** will remain a leader as a golf course publication.



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# DR. WATSON HONORED

Dr. James Watson, vice-president of customer relations and agronomist for the Toro Company, Minneapolis, Minnesota, has been named 1986 Man of the Year by both LANDSCAPE AND IRRIGATION and WEEDS, TREES, AND TURF magazines.

Watson, 66, is one of the nation's leading figures in the development of the turfgrass industry. He was the first person in the country to receive a Ph. D. in turfgrass science, which he earned in 1950 at Penn State University. Since then, Watson has been one of the industry's leading proponents of the need to research water conservation and turf management.

Since joining Toro in 1952, Watson has been part of the company's product development team. "He has been a real source of information", said Ken Melrose, president of the Toro Company. "Having an agronomist advising us on trends has given us a great advantage. He is very much involved in product development, distributor relations and customer service."

Watson is a "fellow" in the American Society of Agronomy and the Crop Science Society, and is currently an Adjunct Professor and Landscape Architecture for the University of Minnesota.



DR. JAMES WATSON receives the 1986 Man of the Year Award from DENNE GOLDSTEIN, publisher Landscape and Irrigation.

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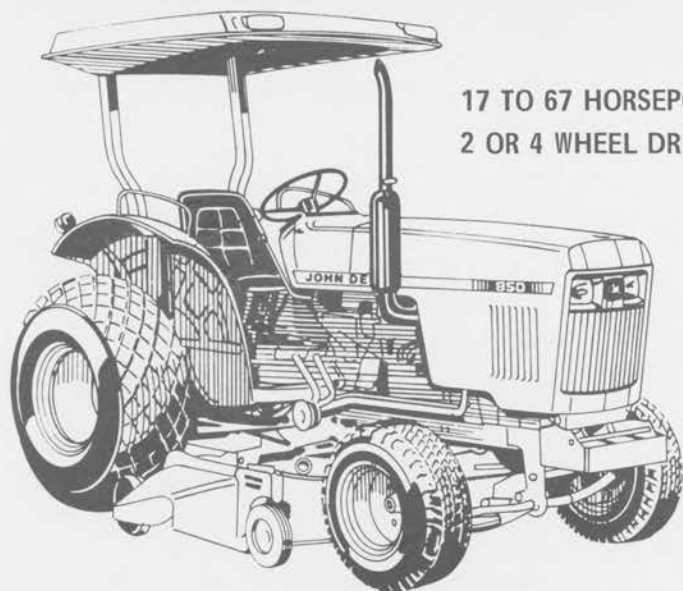


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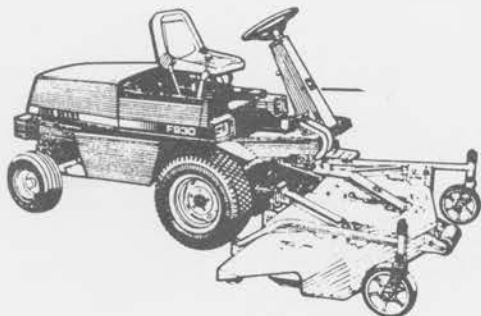
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GCSAA has entered a bright new era in the professional development of its members with the implementation of a revised and improved certification program. The Association's new Certification Long Range Plan (CLRP) has immediate effect with majors changes scheduled to come on-line July 1, 1989 - only a little less than 2 years away.

By 2004, all members seeking the prestigious title of Certified Golf Course Superintendent (CGCS) will be required to have a higher education with a major in their line of work, then to serve internships to demonstrate their professional proficiency as well as academic achievement. Already, a golf course superintendent applying for certification must be endorsed by two highly experienced and competent peers.

In short, golf course superintendency is well on its way to becoming a truly learned, respected and accepted profession.

For the next five years however, the requirements for certification will remain basically unchanged. That is because the CLRP includes a five-year

exemption clause for current members. That, and a phased-in implementation program extending over the next 20 years, are designed to eliminate undue concern on the part of present GCSAA members while still allowing progress toward the goal of professionalization.

Details of the CLRP were presented beginning on page 68 of the September, 1984 issue of **Golf Course Management** and beginning on page 65 of the October issue.

Why should current GCSAA members consider seeking certification now?

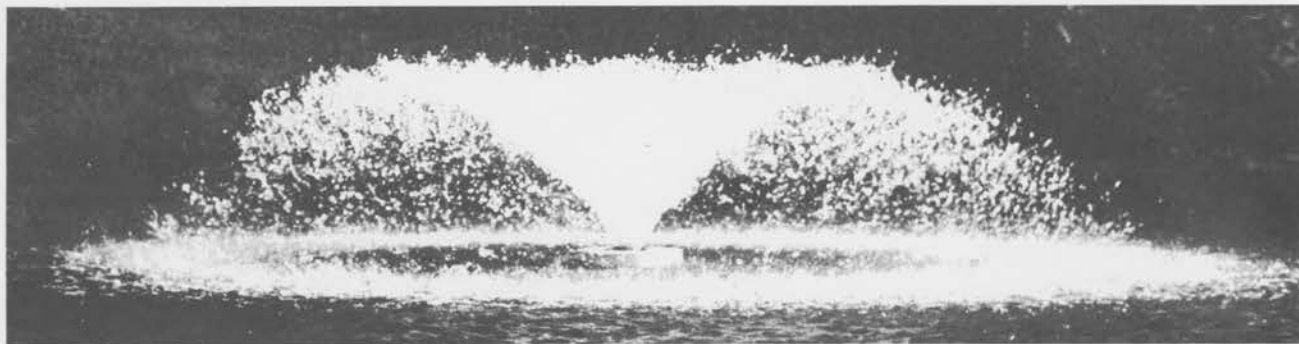
What are the present standards and requirements for certification, and how can a member golf course superintendent attain that status? When will the changes begin?

The answers to these and other frequently asked questions follow.

**Why should I become a golf course superintendent?**

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CONTINUED PAGE 19



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## GCSAA NEWS

### SUPERINTENDENTS TO PARTICIPATE IN NEW TOURNAMENT

Golf Course Superintendents are pleased to be involved with PGA professionals, managers and presidents of the nation's country clubs in a national golf championship recently created by the John Deere Company.

The announcement was made by Riley L. Stottern, CGCS, president of the 7,000-member Golf Course Superintendents Association of America (GCSAA), with headquarters in Lawrence, Kansas.

The event - the John Deere/PGA Professional - Superintendent Championship - will feature four-man teams competing in a scramble at the 41 PGA Sections throughout the country.

Qualifying is scheduled between June and September, with the 36-hole Championship in November. The date and site will be announced later. Teams will be made up of the PGA Professional, the club's course superintendent, club president and club manager.

"It is gratifying, and fitting," observed Stottern, "that superintendents are recognized as among the

most important people in the game of golf. It is they who make and keep our nation's golf courses playable. Many superintendents play golf frequently not only because they enjoy the game and are good, but also because they know it is the best way to understand how to keep their courses in the best possible playing condition.

"GCSAA thanks John Deere for its development of the tournament. Our members are looking forward with great enthusiasm to playing in it with the PGA professionals, club presidents and managers, who are also essential to the game and the industry."

Gary Gottschalk, manager of John Deere's Golf and Turf Division, said the firm is "excited about the concept."

"This Program provides an opportunity for the club professional and club superintendent to play together on a team with other club officials. I am not aware of any other competition like it."

### HEARN ELECTED PRESIDENT

Donald E. Hearn, Weston, Mass., was elected President of the Golf Course Superintendents Association of America (GCSAA) during the Association's 58th Annual International Golf Course Conference and Show held in Phoenix, Ariz., January 29 - February 2, 1987. Hearn succeeds Riley L. Stottern, CGCS, Park City, Utah.

John A. Segui, CGCS, Waynesboro Country Club, Paoli, Pa., was elected Vice-President.

Elected to the Board of Directors were Randy Nichols, CGCS, Cherokee Town & Country Club, Dunwoody, Ga., and Stephen G. Cadenelli, CGCS, The Metedeconk Golf Club, Jackson, N.J.

Continuing to serve as Directors are - Gerald L. Faubel, CGCS, Saginaw Country Club, Saginaw, Mich.; William R. Roberts, CGCS, SentryWorld, Stevens Point, Wis.; and Kenneth A. Sakai, CGCS, Franklin Canyon Golf Course, Rodeo, Calif.

Dennis D. Lyon, CGCS, Aurora, Colo., has been appointed the Association's Secretary/Treasurer.

Officers serve one-year terms, while Directors are elected to two-year terms.



DONALD HEARN, President GCSAA

Stottern continues to serve on the Board for one year as the immediate Past President.

The Golf Course Superintendents Association of America is headquartered in Lawrence, Kansas.

For more information, contact Bob Still, Media Relations Manager, GCSAA 913-GSA-SUPT.

# STRATEGIC USE OF FUNGICIDES

BY DR. PHILLIP O. LARSEN  
Ohio State University, Columbus, Ohio

In the past 10 to 15 years, fungicide resistance has become an increasing problem throughout the world. The problem has become more significant as the chemistry of new fungicides has developed toward a more specific mode of action in which a fungicide affects the metabolism of a fungus in limited sites.

Fungicide resistance has been reported to occur for such turfgrass diseases as dollar spot, *Fusarium* blight, pink snow mold and powdery mildew. With three of the four diseases, the benzimidazole fungicides are implicated. Iprodione, a relatively new fungicide that has only been commercially available for the past few years, has also been shown to be associated with fungicide resistance in isolated instances.

The cadmium fungicides and anilazine are examples of older, non-systemic fungicides for which fungicide resistance has been observed, indication that this problem is not strictly associated with the more modern groups of fungicides that have systemic activity and a narrower mode of action, although the frequency of occurrence of fungicide resistance is much reduced.

## Benzimidazole Fungicide

Fungicide resistance to turfgrass diseases has been observed most frequently with the benzimidazole fungicides. These fungicides are all systemic. When they come in contact with water, they hydrolyze or break down to similar products called methylbenzimidazole carbamate (MBCO), or ethylbenzimidazole carbamate (EBC), which are the actual compounds that suppress growth of plant pathogenic fungi. The effect of this relationship is that when fungicide resistance to one member of the family of fungicides develops, the other members are prone to such resistance as well.

So, if fungicide resistance develops to a benzimidazole fungicide, it does no good to switch to another fungicide of the same chemical family for disease control.

## Dicarboximide Fungicide

Resistance to iprodione by pink snow mold has been observed in the state of Washington. The same is true of dollar spot in Michigan. In laboratory tests where fungus isolates that were resistant to iprodione were exposed to the related fungicide vinclozolin, growth of the fungus was not inhibited. Similar to the situation just mentioned with the benzimidazole fungicides, if resistance is observed to iprodione, the

turf manager should not switch to vinclozolin, since it has similar mode of action.

## Multi-Site and Specific-Site Fungicide

In order to explain how resistance occurs, it is helpful to understand a few facts about how fungicides affect fungi. Basically, there are two general categories of fungicides. First, there are multi-site fungicides that are active at several metabolic sites in sensitive fungi. These fungicides are usually preventive or contact fungicides that are not taken up and translocated inside the plant. Instead, they function by forming a chemical barrier on plant surfaces that acts to prevent fungal growth and penetration of plant tissue.

In the second group of fungicides are the specific-site fungicides, which are active only at one or a few metabolic sites. These fungicides are usually systemic and can be taken up by the plant root and translocated throughout the plant. They have the advantage of a longer effective interval between applications due to the fact that they can be translocated to newly grown plant tissue and are not as subject to washoff because they are inside the plant.

Unfortunately, it is with the specific-site fungicides that we have most frequently seen fungicide resistance develop in recent years. The primary reason is thought to be that because of the specific-site nature of these fungicides, a fungus only has to mutate at one or a few sites to overcome the effects of the fungicide. With the multi-site fungicides, which have a broader mode of action, a fungus has to mutate at several metabolic sites to overcome the effect of the fungicide. Obviously, the fewer mutations that are required to overcome sensitivity to a fungicide, the greater likelihood of resistance developing.

To better understand how fungicide resistance develops in a turf area as a result of repeated applications of a specific-site fungicide, one needs to consider an entire population of individuals of a given fungus over a turf area. Within that population there may be a very small percentage of individuals that have developed resistance to a specific-site fungicide by random mutation. The majority of individuals within that population will be sensitive to the fungicide.

If the fungicide is repeatedly applied, the sensitive individuals will be gradually eliminated and will no

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## RESISTANCE, CONT.

longer be available to compete for nutrients, permitting a rapid buildup of the resistant individuals. It should be further stated that mutations for resistance that occur, do so in a random, spontaneous manner and not because fungicides routinely cause mutations in fungi. The probability of such a mutation taking place is about one in one hundred million for each site. However, the probability of such a mutation occurring is greatly increased because of the enormous capacity of micro-organisms to reproduce rapidly.

### How to Counteract Resistance

First, let us consider a situation where fungicide resistance already exists. In this instance, there is no recourse but to switch to another fungicide with a different mode of action that is still effective against the disease in question. Initially, it was thought that resistant strains of fungi did not survive well, and it would be impossible to return to the fungicide for which resistance has developed within a matter of a few years. It now appears that resistant isolates of fungi may survive as well as common strains of fungi and it may not be possible to revert to use of the fungicide to which resistance developed for several years.

If fungicide resistance does not presently exist on a turf area, the turf manager should consider a procedure of rotating fungicides with different modes of action that are effective in controlling the disease to prevent resistance from ever occurring on a problem scale.

If resistance develops to one of the fungicides that is in the rotational scheme, application of the other fungicide with a different mode of action in the next application should effectively eliminate the resistant population. This would retain the capability of using a specific-site fungicide that has a long-term residual property and provides a high degree of control against the common or sensitive strains of a particular fungus.

Alternatively, it is possible to tank-mix fungicides with different modes of action to ensure elimination of individuals that may develop resistance to one or the other of the fungicides that are in this mix. One should not use the fungicides included in the tank mix at half rates because they are not additive and have different modes of action. Both fungicides act independently of one another and each should be used at the full recommended rate.

### Ergosterol-Inhibiting Fungicide

In the past few years, a new category of fungicides appears to be emerging for use on agricultural and ornamental crops. These fungicides are characterized by their ability to inhibit synthesis of a compound called ergosterol in the cell walls of some fungi. Those fungi that do not produce ergosterol are not affected by these fungicides. Two examples of fungicides that are presently registered for use on turf are triadi-

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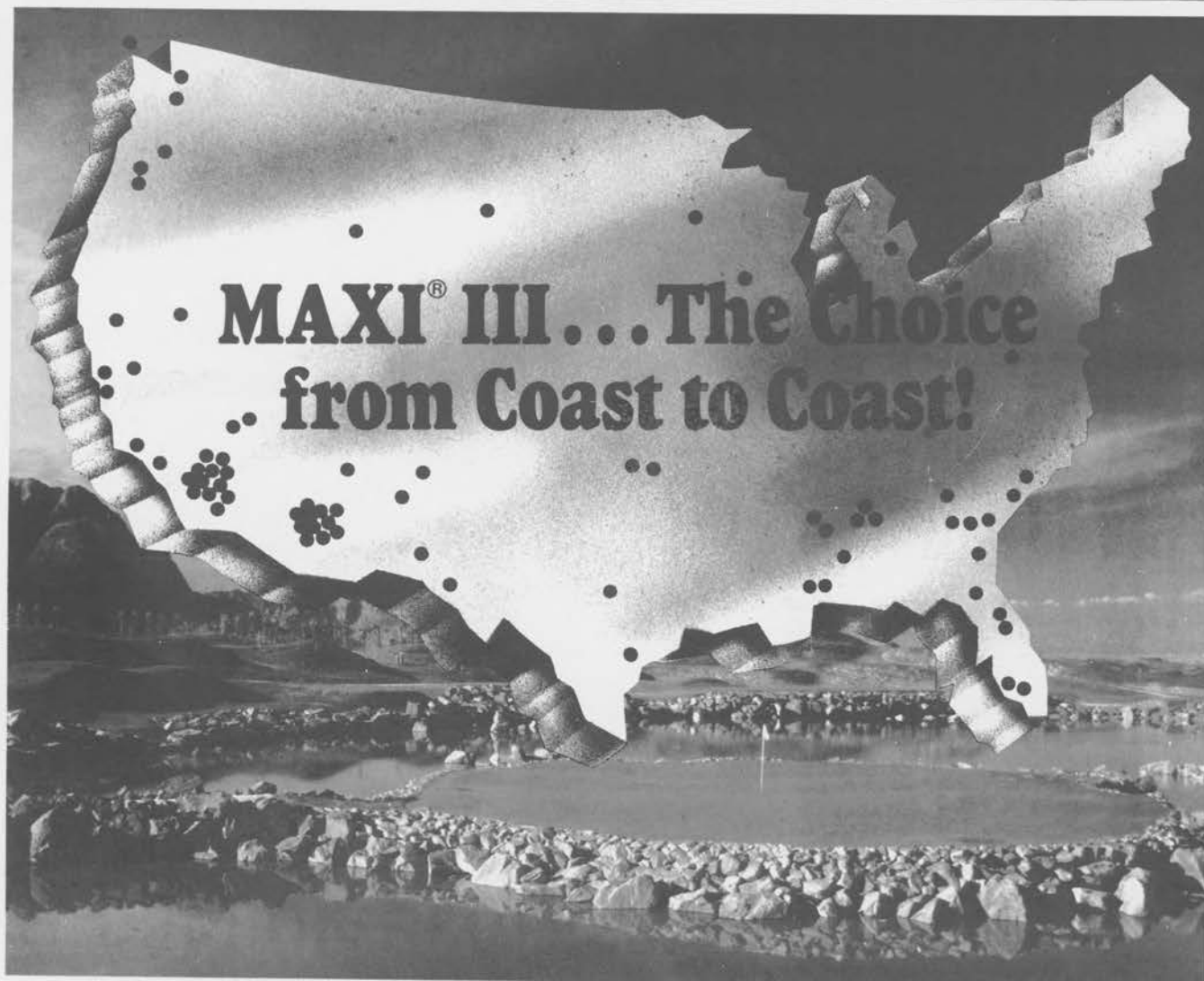
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# 1987 MBCGCSA Scholarship

Congratulations to Paul Dushane, this year's recipient of the Michigan and Border Cities Golf Course Superintendents Association Student Scholarship. The \$1,000.00 award was presented to Paul at the Michigan Turfgrass Conference at MSU in January.

Paul is a senior in the 4-Year Turf Program at MSU and will be receiving his BS Degree in the near future. He spent three summers employed at Orchard Lake Country Club and spent last summer working at Walnut Hills Country Club. Paul will be taking the position of Assistant Superintendent at Orchard Lake Country Club in late March. He also has aspirations of continuing in the golf course industry as a golf course superintendent in the future.

A scholarship committee comprised of golf course superintendents of the MBCGCSA interviewed all of the potential candidates prior to the MTF conference. All of the students interviewed were excellent candidates making the decision difficult. We would like to congratulate all of the students involved for the manner in which they presented themselves and wish them the best for their careers in the turfgrass industry.

The purpose of awarding a scholarship to a worthy 4-Year student is to promote our industry by encouraging turfgrass students to continue their education past the 2-Year turf program, thus advancing our profession for the future.



(Left to Right) CHARLIE GAIGE, Vice-President MBCGCSA  
PAUL DUSHANE, Scholarship Winner  
KEVIN DUSHANE, President MBCGCSA

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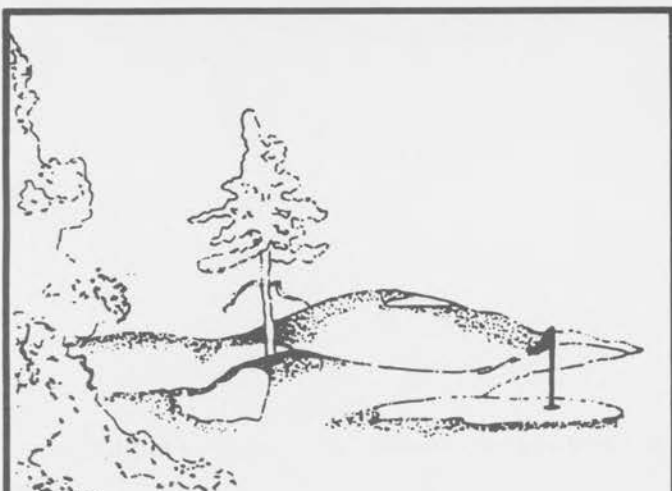
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### **RESISTANCE, CONT.**

mefon and fenarimol. Both are systemic fungicides that have a different mode of action than the benzimidazole fungicides.

This characteristic permits rotation of two systemic fungicides with different modes of action with long-term residual properties against a turf disease such as dollar spot. At this point in time, no field resistance has been observed with any turf disease to either of these ergosterol-inhibiting fungicides.

### **Systemic Pythium Fungicide**

Another group of fungicides for which there has been a great deal of interest relative to the potential for development of fungicide resistance are the new systemic *Pythium* fungicides that have been registered in the last few years. The fungicides propamocarb and metalaxyl are both systemic fungicides that realistically offer as much as two weeks, and possibly more, control of *Pythium* blight on turf areas.

Most of the concern with respect to fungicide resistance has been directed toward metalaxyl since there have been documented reports to resistance developing to diseases of tobacco and potato where metalaxyl had previously been effective in control.

However, at this point there is no evidence for any resistance developing to metalaxyl on turfgrass diseases. Similarly, no resistance has been observed with propamocarb. The fact that these two fungicides have different modes of action provides the opportunity to rotate these two fungicides in a preventative fungicide control program on those areas that are consistently plagued with *Pythium* blight.

The cost of developing a new fungicide has been estimated to be in excess of \$20,000,000. This immense cost greatly inhibits the number of new fungicides that eventually reach the turf marketplace.

We simply must learn to effectively use the fungicides that we have so that we can continue to preserve these useful tools for future use.

**Credit: Indiana GCSA Newsletter, Oct., 1986**

# THE JOHN WALTER AWARD

There are just three issues of *A Patch of Green* available for your opportunity to submit a golf related article and win the 1987 John Walter Award and \$100.00

The award is presented annually to the golf course superintendent who submits an article that a selected panel of judges feels best serves the interest of our membership. Also, quality penmanship and article content is important in the judging process.

This is an opportunity for you to hone your writing skills and address issues that could be of value to other turf professionals. Take the challenge upon yourself and spend a few hours writing an article before the busy golf season begins. Submit all articles to Ted Woehrle at Oakland Hills Country Club.

Remember the famous line of an anonymous author, "Anyone who owns a pencil can write an article for *A Patch of Green*."

# MEETINGS FOR 1987

April 27, 1987  
Essex G & CC - Fellowship w/Canadians  
May 6, 1987  
Links at Pinewood - Special Olympics  
June 1, 1987  
Pine Knob Golf Club  
June 30, 1987  
Burroughs Farms Golf Club  
July 21, 1987  
Port Huron Golf Club  
August 18, 1987  
No Site Yet Determined - Picnic  
September 3, 1987  
Hancock Center - M.T.F. Field Day  
September 14, 1987  
Forest Acres Golf Club - Mich. Supt. Tournament  
September 28, 1987  
Forest Lake Country Club  
October 5, 1987  
M.T.F. Golf Day  
October 21, 1987  
Maple Lane Golf Club - Annual Meeting  
November 3-4, 1987  
G.C.S.A.A. Construction Seminar

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#### CERTIFICATION ANSWERS, CONT.

about your industry, your Association and your profession. It says you keep up with change.

Certification also recognizes your proficiency, your dedication to self-improvement and your commitment to providing the best possible playing conditions on your golf course. And certification can mean higher pay and better career opportunities. More and more employers are looking for that "CGCS" behind the names of applicants.

Says Clifford A. Wagoner, CGCS, professional superintendent at Del Rio G&CC, of his certified status: "Psychologically, and personally, I feel better - I have accomplished the highest goal in my profession. I would encourage new people to get involved in the certification program. Pretty soon, the clubs will be asking: 'Why aren't you certified?'"

**What's the hurry? Why should I apply for certification now?**

Partly because it's easier now. Currently, for example, there is no minimum educational requirement. All you have to do is pay a fee, study and pass an open book test.

Under the new GCSAA Certification Long Range Program to be implemented in phases over the next 20 years, certification will be tougher. Standards generally will be higher. For one thing, there will be specific higher education requirements. Eventually, candidates will serve internships. And besides all that, the application fee may go up. Everything else is.

**Who is eligible to apply for certification by GCSAA now?**

Applicants must have been Class A members for at least two two years and must be currently employed as golf course superintendents.

**So how do I get Started?**

Just write to the GCSAA Educational Department or call toll free 1-800-GSA-SUPT. GCSAA will answer your questions and send you an application for certification.

**What information does it require?**

It's simple. All it requires is your employment history, your duties, whether other GCSAA members are employed at your course and what their duties are. The form also asks you to secure the signatures of two certified golf course superintendents who have inspected your golf operation.

After you have completed them, send it back with a check for \$50. GCSAA then goes over your application and determines your eligibility. If you are eligible, the Association sends you some additional material.

**What does that include?**

For one thing, you'll get a list of monitors in your area. That's someone respected in the community

CONTINUED NEXT PAGE

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### CERTIFICATION ANSWERS, CONT.

who will administer your test. Some are professors. Others are from various occupations. It may be a minister. One monitor was a dentist. If there's no one near you, you may suggest someone to the GCSAA Director of Education for approval.

### What about the test?

It has six parts. You are allowed six hours. The sections are:

1. Knowledge of GCSAA - History, ethics, structure, bylaws and procedures of the Association (reference - GCSAA Membership Directory).
2. Rules and Definitions of Golf - Based on the official United States Golf Association's "Revised Rules of Golf."
3. Turf Management - Irrigation, fertilization, equipment, calibration, soil factors, cost analysis, drainage systems, mathematical problems, etc.
4. Plant-Protectant Chemicals - Pesticide Labels, terminology, safety, environmental effects, classifications, equipment, application, calculations, pests, etc.
5. Reports, Records and Budgets - Communications with club and staff, preparing reports, presenting ideas, developing a budget, keeping records, etc.
6. Leadership, Delegation and Training - Leadership principles, how to delegate, training techniques, etc.

### How do I prepare for this test?

Among the materials you receive will be a "certification reference list - suggested study." Basically, this is it:

Knowledge of GCSAA	GCSAA membership directory
The game ? rules of golf	USGA revised rules of golf
Turf Management	Practical Turfgrass Management by John H. Madison
	Principles of Turfgrass Culture by John H. Madison
	Sprinkler Irrigation Claude H. Pair, Editor
	Turfgrass Science by James B. Beard
	GCSAA's Mathematics of Turfgrass Maintenance Manual
Plant-protectant Chemicals	GCSAA Pesticide Usage Reference Manual
	Diseases of Turfgrass by Houston B. Couch
Reports, records & budgets	Sec. 5, Cert. study packet
Leadership, delegation and Training	Sec. 6, Cert. study packet

### When do I take the test?

You have one year from the date you are notified that you are eligible. When you are ready to take the

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Acti-Dione Thiram, 10#-Brown & Dollar.  
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test, you contact your monitor and arrange a time and place.

### What's passing?

A score of 80 percent or better on each section. Should you fail to pass any or all sections of the test, you may ask to be retested up to two times during the year you had to take the test.

### What happens when I pass?

GCSAA will notify you promptly and see that you are awarded your mounted certificate in front of your peers at a chapter meeting, a turfgrass conference or some other appropriate function.

### How long does my CGCS status remain in effect?

For five years.

### How would I renew my certification?

Everyone certified after July 1, 1984, will be subject to new provisions by the time for renewal because the five year exemption clause will have expired (June 30, 1989). To renew, a candidate must have accumulated 15 GCSAA-recognized Continuing Education Units (CEUs), at least 3 of which must have taken from the GCSAA Continuing Education Program. These may be taken at live presentations such as regional seminars or by correspondence. Other ways to accumulate CEUs include attending the annual GCSAA Conference and Show, regional turfgrass conferences and research field days and chapter meetings.

### What about a member golf course superintendent who was certified before July 1, 1984?

Those CGCSs may renew one more time under the current program, which requires only 6 CEUs.

One way to do that would be to take the certification examination again. That's good for the whole 6 CEUs in one whack. Or you could take the current Certification Renewal Examination, a two-hour test good for 4 CEUs. At the moment, successful completion of GCSAA seminars is good for one or two CEUs each, and GCSAA conferences are good for a half point per conference up to a maximum of two for the five-year period.

In both cases - superintendents who became certified before or after July 1, 1984 - completion of simple forms and payment of nominal fees will be required.

Will consideration be given to members who have many years experience as golf course superintendents but have just joined the organization and want to be certified?

At this early stage of implementing CLRP, not everything is set in concrete. There will be refinements. But, at the moment, there are no special allowances for experience. You simply have to pass the test. Advance study helps, even though it's open

CONTINUED NEXT PAGE

## CERTIFICATION ANSWERS, CONT.

book.

Will there be a "test-out" provision, whereby an experienced golf course superintendent might take an examination in lieu of taking a course of study?

Again, there are no such provisions in the current certification program or in the Long Range Plan. But there will be refinements. It is possible that such a concession might be considered.

Under the new CLRP, who will offer the Division I and Division II courses?

GCSAA will sponsor them at regional seminars at the annual Conference and Show. Eventually, both curricula probably will be offered through correspondence.

How about Division III?

Division III will be offered under the auspices of the University of Kansas - and probably eventually via correspondence.

What is the "mark-sense" format in which tests will be given under the CLRP?

A mark-sense format consists of computer-readable answer sheets on which appropriate responses are blackened with a Number 2 lead pencil. The computer reads each answer sheet and then compiles data from groups of answers for "Item analysis" to detect poorly written test questions.

For example, if 90 to 100 candidates miss the same question, something must be wrong with the question - not the candidates. Poor questions will be rewritten.

When do the first of the new certification procedures take effect?

Many preparations are being made now, and the work will continue. As far as the candidate for certification is directly concerned, the first significant change will be made in 1989 when the exemption clause expires. In 1988, examinations will become "closed book."

In 1989, more stringent education requirements will begin to come into effect - and so on until 2004, when the new GCSAA Certification Program will be fully in place.

May I attend GCSAA-sponsored seminars if I am not enrolled in the certification program?

Absolutely. And GCSAA totally encourages everyone to participate.

If I am not enrolled in the certification program, will attendance at GCSAA-sponsored seminars count toward certification upon enrollment in the program?

Yes, it will count toward initial certification requirements. However, only continuing education completed during each five-year certification period will count toward recertification.

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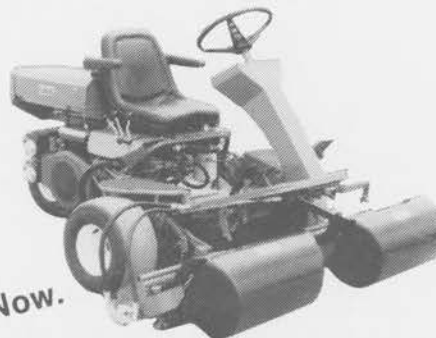
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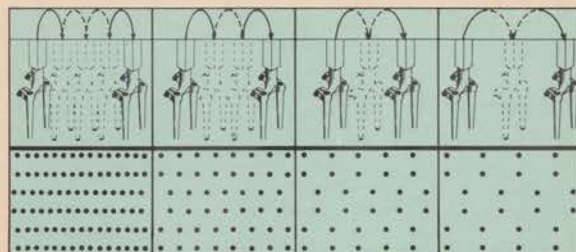
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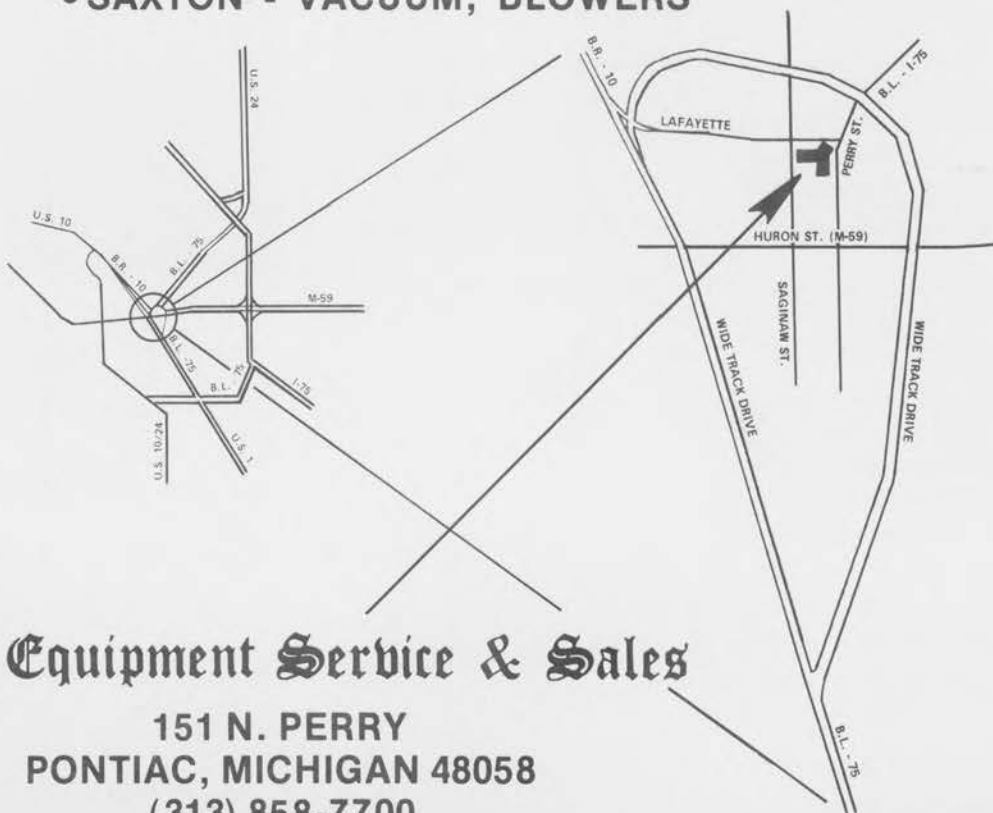
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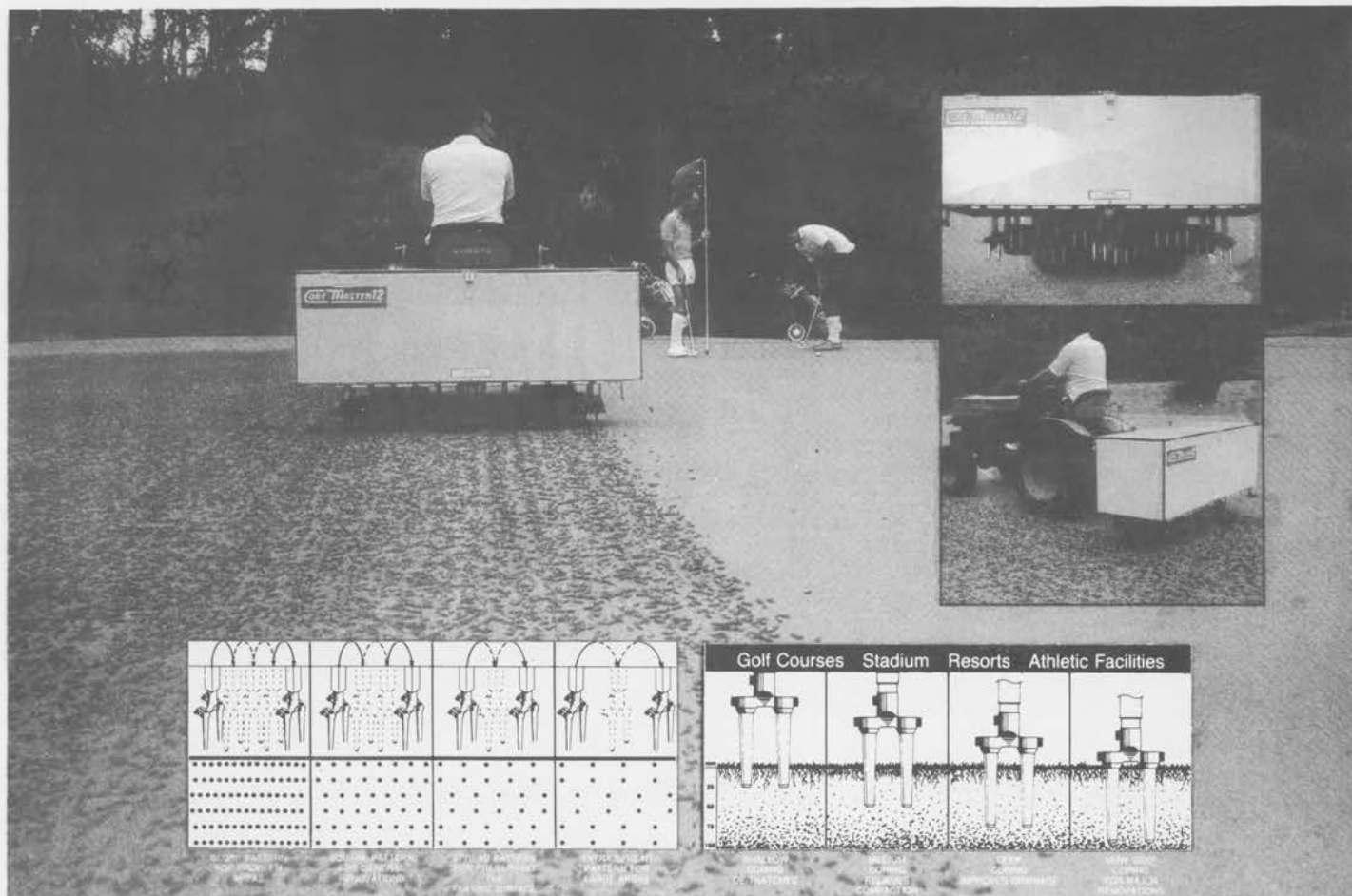
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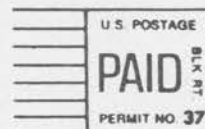
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