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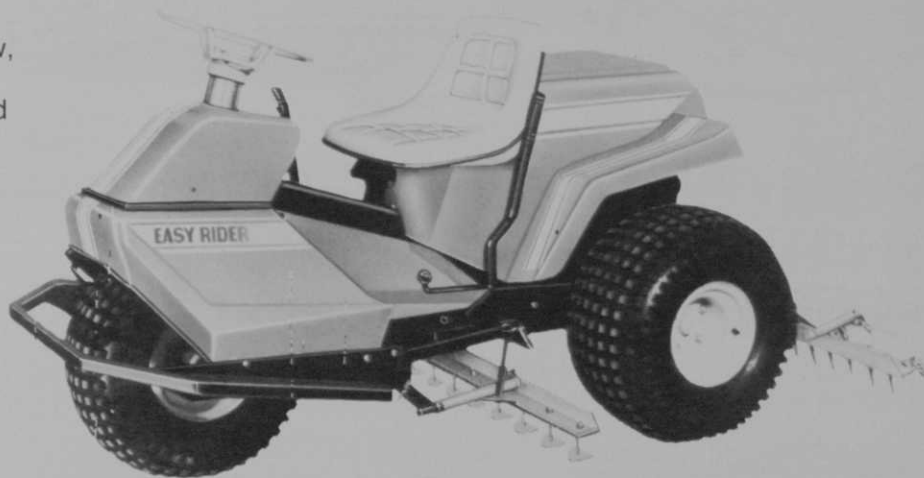
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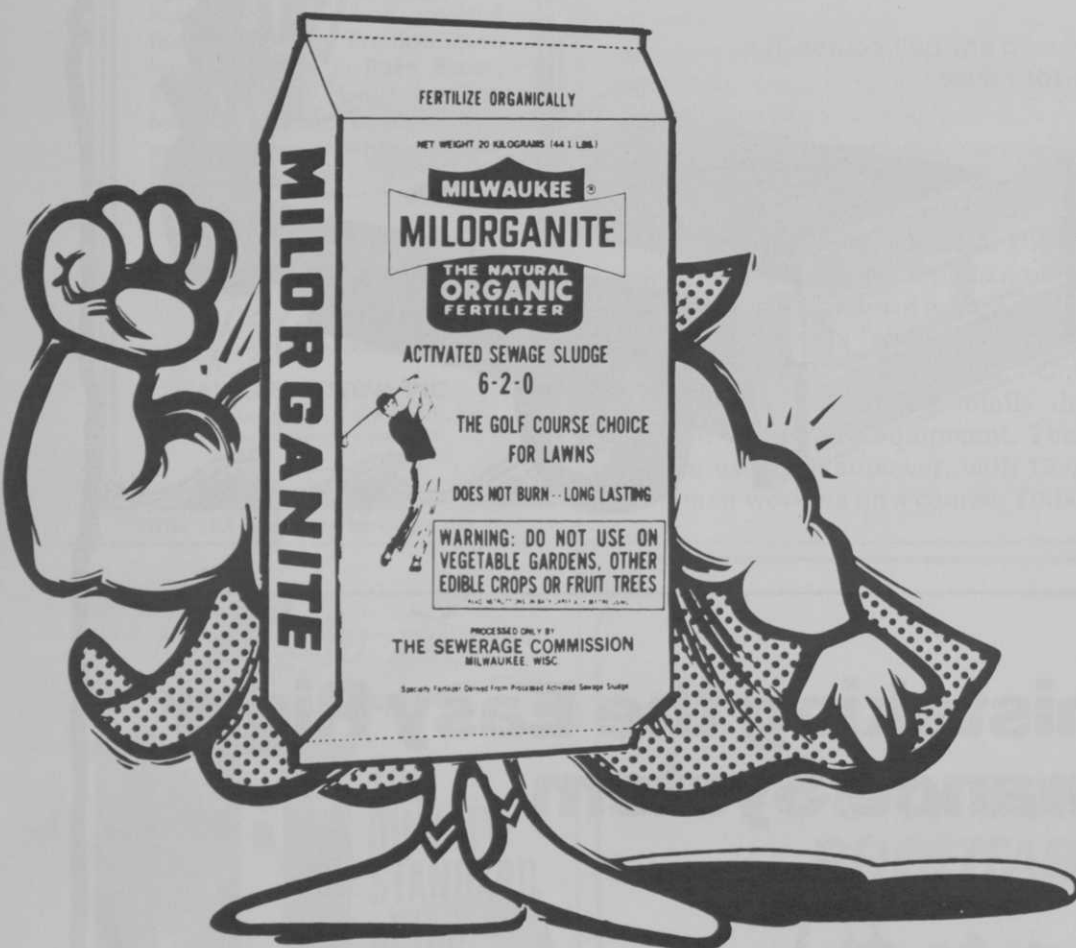
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By Cecil R. McKay
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There are many associations within the golf industry, from PGA to club managers and golf superintendents. Now, a new association movement is taking place, which is the daily fee golf course owners.

So far, we have the Michigan Association of Public Golf Courses (M.A.P.G.C.), Ohio Association of Public Golf Courses (O.A.P.G.C.), Oregon Golf Course Owners Association (O.G.C.O.A.), and Florida Golf Course Owners and Operators Association (F.G.C.O.O.A.). Several other states are making attempts at starting associations, including Indiana, Pennsylvania, Tennessee, California, Illinois, and Wisconsin.

No association can exist unless it offers positive benefits to the membership it serves, and the Golf Course Owners Associations are no exception. A current list of benefits being provided by the various associations include:

Management Workshops—Where owners can meet and discuss mutual problems or successes. More and more, owners are finding that by telling their own success stories and listening to others, they gain in management skills and increase the strength of the golf industries competing for the recreational dollar. Owners have to learn to promote, and make their local people want to spend more money on golf rather than TV, or vacation trips, boating, etc. In the resort area states, the owners are working together to promote golf vacations and visitors to their state.

Insurance Programs—Golf courses have historically been rated for insurance based on experience in other industries. The golf course associations are finding impressive savings available by combining into group policies, developing their own experience rates, and having policies manuscripted specifically for golf courses.

Newsletters—These periodical bulletins keep members alert to news within the industry, and of legislation, or governmental programs that may affect their business.

Lobbying Power—By working together, owners can make their needs or concerns known to their legislators. Problems involving taxation, governmental restrictions, municipal competition, liquor laws, etc., can be more effectively challenged with a group action.

Promotion—Course owners combining to promote the game of golf can be

a very strong power. The states of Michigan and Ohio are beginning to hum with excitement over their golf tournaments. In 1979, the state of Michigan (MAPGC) challenged Ohio (OAPGC) to a play-off to determine a champion. The play-off was held in Orlando, Florida in November (neutral turf). In 1980, the challenge was reissued, and the play-off will be in Las Vegas, November 16th. A few new wrinkles have been added, such as: Winning players of golf leagues at participating courses are automatically seeded into regional tournaments, and a challenge is being issued to all states to participate at the Las Vegas outing. The winners will be the daily fee golf champions of the United States.

Two objectives are being met by this tournament program, Number one is to create a tournament for the average daily fee golfer. This event is played as a handicapped best ball using a four person team, which gives everyone a chance. Number two is promoting golf as a fun type activity, and operating as an incentive for leagues.

Now the average golfer not only has a chance to win in a local league, but may go on to win at the regional, state, and even national level. There is even talk of getting sponsors behind teams, complete with shirts, caps and bagtags.

The success of the association movement can probably be traced back to the efforts of the National Golf Foundation and their management work-

shops. In 1980, Don Rossi, Executive Director, has announced that a daily fee workshop will be held in Las Vegas, November 16-19, which coincides with the National Daily Fee Golf Tournament.

The results of all this activity should be a stronger daily fee golf industry operating more efficiently, and creating a better product for their customers.



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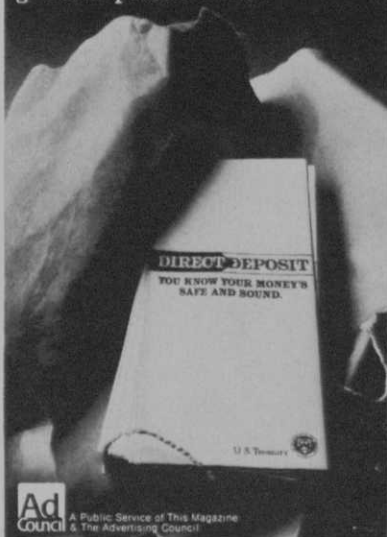
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Designer's forum

By Dr. Michael J. Hurdzan



Michael J. Hurdzan, Ph.D., is a partner in the golf course architectural firm of Kidwell & Hurdzan, Inc., Columbus, Ohio. Dr. Hurdzan received his Doctor of Philosophy in Environmental Plant Physiology and his

Master of Science in Turfgrass Physiology from the University of Vermont. Dr. Hurdzan is a member of the American Society of Golf Course Architects, and is on that association's Board of Governors. He is also a member of the Ohio Turfgrass Foundation, USGA, NGF and the Golf Collectors' Society. Dr. Hurdzan has authored many articles on golf course design and maintenance and is currently writing a book on the history of golf course architecture.

Robertsonism: The secret golfing religion

There are some religions that believe that Satan often chooses to appear in the most appropriate physical form to best work his black deeds. Such beliefs are shared by many people, including a little known order of devotees, all of them confirmed golfers, who secretly, although sometimes overtly, acknowledge the teachings and prophecies of Robertsonism. This order began in 1848 A.D., at the most holy (perhaps even holey) place in golf, the Links of St. Andrews in Scotland.

It was in that year that a priest, of all people, unleashed a black demon, literally, called the Gutta percha golf ball. From this date forward, the golf ball has caused more controversy and has dramatically changed golf and golf courses more than any other single factor.

The man who foresaw this menace was named Allan Robertson, 1815-1859, who was not only the golf professional at St. Andrews, and was said to have never have been beaten, but also he was the most prodigious and accomplished maker of feathery golf balls.

Robertson strongly fought the introduction and widespread use of the gutty. He felt that this innovation of a more lively golf ball, which permitted the less accomplished player to easily carry difficult hazards because of its improved resiliency and flight characteristics, would diminish the role of skill in shot making, and would begin a trend of lengthening of golf courses to insure an adequate challenge. His

fervor for his beliefs led him to bitter disagreements with most well-known golfers of the day.

But, with characteristic Scottish tenacity, Allan first tried to buy up and destroy all the gutties that were found at St. Andrews. When failing this and he was at last forced to manufacture the 'damned black ball', he clearly tried to enunciate the incipient evil of golf ball development. No one disagreed with Allan that such a golf ball did make golf easier and golf courses less challenging, but it was a two-sided coin for it also attracted many new golfers because golf was now easier to learn and much less expensive (gutties were about 1/3-1/4 the price of the feathery and much more durable). So now the precepts of Robertsonism were clear and may simply be stated as:

1. Resist new golf ball innovations that may ruin the character of our existing golf courses and required skills of golf;
2. But if such innovations attract new golfers, and makes the game more fun and cheaper for them, support the product but speak of the possible evil.

These Robertsonian ideas were reforged and strengthened over the next 50 years with introductions of new dimple patterns and mixtures of Gutta percha and other materials. So when the first wound ball was invented in 1898 and introduced in 1902, Robertsonites reluctantly endorsed the 'damned wound ball', but not before expressing the perceived negative aspects of this even longer flying ball. Over the next 50-60 years, debates over size, weight, dimples, and construction materials were to accupy the best minds in golf.

Finally, in the mid 70's, the disciples of Robertson, having been properly recognized and initiated into high positions in the USGA, the R & A, and other golfing bodies, decided to make a crusade to once and for all limit the influence of the evil long distance golf ball. The rules of golf for 1976 stated, for the first time, that "the velocity of the ball shall not be greater than 250 feet per second when measured on apparatus approved by USGA..."

Another standard to be used outdoors was to measure and limit the distance which any ball may travel so as not to exceed 280 yards (8 percent tolerance) when struck with a

calibrated club. End of sentence, end of paragraph, end of discussion. Maybe.

But about this same time, along comes U.S. Patent Number 3,819,190 for "a golf ball having controllable flight characteristic . . .", a ball that reduces hooks and slices. Once more followers of Robertsonism had to gird themselves for the inevitable battle to protect the honor and integrity of golf and golf courses. To my knowledge, this war is still being waged in the courtroom.

Now I am, like most other Golf Course Architects, a believer in Robertsonism and I share the same fears as my colleagues and golfing compatriots. But I believe in the entire doctrine of not only resisting blatant affronts on golf but also of supporting such ideas if they help the beginner. Therefore, I am somewhat bothered by the hypocrisy of open resistance of some people to the "Polara" golf ball, while lauding the virtues of the "Jumbo" ball. It is my feeling that they are both intended to help the beginner and in fact have qualities that will do just that.

The principle of the Jumbo is a high center of gravity which makes the ball easier to get airborne while the Polara relies on a dimple pattern that, when aligned to the direction of flight, acts to stabilize the flight and reduce hooks and slices. Granted, the Jumbo ball is legal for USGA competitions because of its size, but if one does not improve his lie in USGA competition, and therefore cannot orient the dimple pattern of the Polara, except on the tee, there seems to be little advantage.

With crowded conditions of our golf courses today and the often close proximity of housing to golf holes, I would think that the golf industry would applaud an innovation which might speed up play, improve safety and help the novice. If I owned a facility frequented by beginners, I would unabashedly remind these clients of the possible enjoyment they could get from such golf ball designs.

Similarly, it might be interesting to know how a legal jury might react to a damage case where an unskilled golfer ignored the availability of a "controllable flight ball". Would they find him more negligent than if he recognized his abilities and took every precaution to insure safety by playing such a ball?

Books

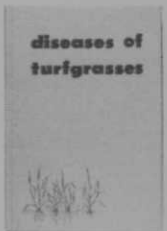
THE PRUNING MANUAL by Everett P. Christopher

Latest information on pruning fruit and shade trees, ornamental shrubs and roses. 100 diagrams and photographs. Sections also devoted to forestry, grafting, root pruning, wound treatment and tools.
\$10.00



DISEASES OF TURFGRASSES by Houston Couch

Reference for identification and control of fungus and nematode-incited diseases. This 2nd edition features new varieties of potentially hazardous turfgrass diseases, also pesticide regulation changes and more efficient fungicides on the market.
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THE GREENHOUSE ENVIRONMENT by John W. Mastalerz

Covers principles and practices of greenhouse flower crop production, emphasizing response of flower crops to greenhouse environmental factors. General coverage of factors determining these conditions with illustrations.
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DISEASES & PESTS OF ORNAMENTAL PLANTS by Pascal Pirone

This standard reference discusses diagnosis and treatment of diseases and organisms affecting nearly 500 varieties of ornamental plants grown outdoors, under glass or in the home. Easy to understand explanations of when and how to use the most effective fungicides, insecticides and other control methods.
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FUNDAMENTALS OF ENTOMOLOGY AND PLANT PATHOLOGY by Louis L. Pyenson

Limited to the study of insects, related forms, nematode and plant pathogens. Discusses nature and control of these pests in a simple and concise fashion.
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TREE MAINTENANCE Pascal Pirone

The fourth edition of this guide for anyone involved in the care and treatment of trees. Special sections on tree abnormalities, diagnosing tree troubles, non-parasitic injuries and assessing the suitability of different trees to throughout the country.
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TREE SURGERY by P.H. Bridgeman

This practical guide to the know how and equipment required and operation methods attempts to give an up-to-date picture of the modern industry. Includes illustrative photographs and detailed line drawings.
\$16.00



TURF IRRIGATION MANUAL by James Watkins

A guidebook for engineers, architects, designers and contractors. Keeps pace with the latest developments in turf and landscape irrigation. Specific chapters devoted to rotary sprinkler design systems, golf course design systems and expanded engineering and reference material.
\$19.50

DISEASES OF SHADE TREES by Terry Tattar

Because shade trees require specialized maintenance rarely used in the forest, this text seeks to aid the arborist in providing necessary care to maintain vigor and prevent shade tree diseases. An in-depth look at infectious and non-infectious tree diseases. Plant pathology not necessary.
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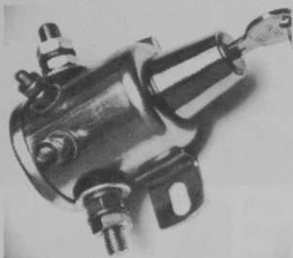
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the possibility of both drive line damage and abrupt wheel spinning.

To eliminate hotwiring, Brammall developed a locking mechanism which grounds the electrical field, making operation impossible in the case of gasoline engine driven cars, and a startered relay lock which renders electrical cars inoperable when activated.

The Directional Change Timing Delay delays a gear shift for four to six seconds. This allows the car to come to a full stop before changing directions and eliminates the possibility of stripped gears, broken drive belts and turf ruts.

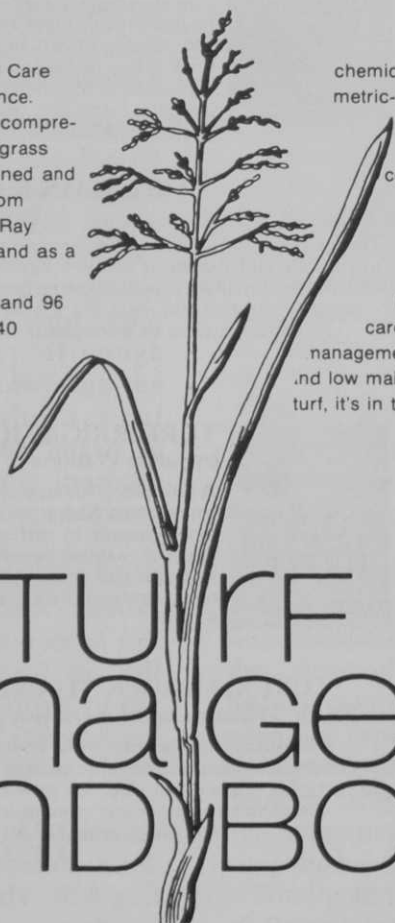
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Finally, An Aid For Teaching Turfgrass

Superintendents, Contractors, Lawn Care Managers, New, On-the-Job Reference.

The Turf Managers' Handbook is a comprehensive, organized approach to turfgrass science and care. It has been designed and written by leading turf specialists from Purdue, Dr. William Daniel and Dr. Ray Freeborg, for on-the-job reference and as a text for students.

The book contains 150 illustrations and 96 color photographs. Data includes 240 tables and forms. Included are specifications for rootzones, employment, calculations for



chemical applications, and extensive metric-imperial conversion. Business and technical aspects of turfgrass management are covered in this 424-page book.

Planning, purchasing, hiring, construction, and plant selection are put together for easy on-the-job reference.

Markets covered include lawn care, sod production, golf course management, cemeteries, athletic fields, and low maintenance areas. If it concerns turf, it's in the Turf Managers' Handbook.

Turf Managers' Handbook

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Rol-Sweep is designed to eliminate puddles on the green quickly

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The "Super Scoop", available from Schwartz Manufacturing Co., is designed for 12-50 hp tractors equipped with a Category I 3-

point hitch. It can be used as a scraper for ditching; in its reverse position for cleaning, or in its vertical position for leveling operations. It can also be used as a handy labor saving carrier for loose materials, sacked seeds, fertilizer, potted plants, stones and many other items. It is available in four and six cubic foot capacities.

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Warren's Turf Nursery has obtained the exclusive rights for distribution in North America of an all-new multi-purpose broadcast spreader for seed and chemicals. Rate of material is adjusted with 6-point calibrated scale shutter. One can easily set the rate of flow by size of material. Even flow is assured by self-agitator. The direction of broadcast is determined by adjusting rudders in discharge opening which saves waste of spread material. The main rotating shaft is enclosed and directly connected with the distributor blade to provide easy rotating of crank and life-time operation. All parts exposed are made of stainless steel or non-breakable, scratchless polyethylene materials.

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GOLF CAR BATTERY

Offers increased cycle life, capacity



Exide has announced the development of the Exide Edge, an improved extended-life golf car battery. Testing has indicated that the battery, fitted with rubber and glass separators, boosts cycling capability 24 percent and offers an increase of 38 percent useful running time over the old Exide EV-106.

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AIR SPRAYER

FMC unit features fast, versatile spray



FMC's model 1029 or 1229 air sprayers have interchangeable volutes (the arrangement of nozzles mounted in the discharge head) to allow

versatile use. The sprayers can be fitted with a one-way volute which directs the spray swath to one side of the sprayer or a two-way volute which directs a swath on each side of the sprayer. There is also a "tall tree volute" which puts the spray swath up, in and around the branches of tall trees.

The TM 1029 requires 35 horsepower to operate and the TM 1229 requires 45. Both models have a 100-gallon stainless steel, mechanically-agitated tank, a positive displacement Bean pump capable of delivering 10 gpm and a pressure of 500 psi, and readily accessible pump and line strainers. There is an outlet for hose and spray gun work, if that capability be desired.

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EDGER ATTACHMENT

Side-mount for Excel Hustler mowers



A side-mounted edger has been added to the line of attachments for Excel Hustler mowers. The new edger consists of a single concave couler

with depth-stop hub, mounted on parallel arms. The cutting edge hugs sidewall or curb, making a narrow, clean cut. The disc can move a full four inches side to side, to remain parallel for cutting. It works at any of four angles by repositioning a pair of clevis pins.

The cutting blade runs alongside the tractor's left drive wheel, at ideal viewing position for the operator. An experienced operator can often mow and edge at the same time. Hydraulics lower the edger into working position where it becomes ground-driven without auxiliary power as the tractor moves. Constant abrasion against concrete self-sharpenes the disc.

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ROTARY MOWERS

Toro adds two 21-inch models



Toro has introduced two 21-inch, hand-propelled, walk-behind power mowers with four horsepower Briggs & Stratton engines and

rugged 14-gauge steel decks. Model 23400 is a side-discharge rotary with optional bagging capability. Model 23450 has a dual element air cleaner with remote air intake. Both models have one quart gas tanks and top-mounted oil filling to keep contaminants out of the oil. The wheels of the side-discharge model are eight inches. The rear-bagger has eight-inch steel wheels in front and 10-inch wheels in the rear. All wheels on both models have greaseable ball bearings.

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A new light-weight, low cost, thermoplastic utility pump is being introduced by The Gorman-Rupp Co. The pump is constructed with

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Reading...

By Dan McNamara, HHH Horticultural

Our book reviewer, Dan McNamara, with his wife Carol, run HHH Horticultural, one of the larger mail-order specialty firms.

Tree Care

By John M. Haller. Indianapolis. 1977. 224 pp. Illus. 8½ x 11. Paper.

This is a book for the amateur arborist, though many a self-proclaimed professional, as well, will find a great deal of interest and information in these pages. There is no area of tree maintenance that Mr. Haller has not covered in this volume, and covered well for the audience he has chosen. The only possible exception might be the chapter on Grafting—which, though it appears early in the book, seems to be an add-on, tossed in by someone's demand at the last minute. This chapter is far from complete, it is very brief, and seems to serve no real purpose except to say, "See, we covered everything!"

Planting (including moving big trees), Bracing and Cabling, Fertilizing, Diseases, Insects, Spraying, Wound Repair, Environmental Damage, Removals, and an interesting discussion of Plant Structure and Physiology are all well done—easy, enjoyable to read, and sufficiently complete to be useful.

The chapter on Bracing and Cabling is exceptionally good, I thought, more useful and in line with current accepted practice than the treatment this subject gets in Bridgeman's *Tree Surgery*.

For the non-professional arborist, faced with problems of tree moving and establishment, the chapter on Planting will be most helpful. When professional help is not available—for financial or other reasons—there is enough information here to make the job both possible and practicable.

The chapters on Diseases, on Insects, and on Spraying are written with consideration of the total ecological picture—much more so than many books specifically directed to the professional. Though the point is never stated bluntly, there is an inherent plea for Integrated Pest

Management, rather than mere dependence on physiochemical controls. Not by any means as complete in treatment as Pirone's *Diseases and Pests of Ornamental Plants*, these chapters give an overall view of the problems involved and enough information to look elsewhere for the exact solution to the immediate difficulty.

The Questions and Answers section, which completes this book, covers matters frequently inquired into by the novice—some seemingly simple, others quite apparently complex—and injects a great deal of knowledge into a few pages.

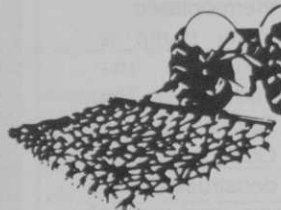
All in all, this book, written by a professional arborist of many years experience, who quite plainly has a deep feeling for the materials of his work, is a worthwhile addition to the literature and to almost everyone's library. Even the professional arborist will find it of use—especially in explaining some points to his clients and co-workers.

For the superintendent of a small golf course, faced with managing work in many fields without outside assistance, this inexpensive paperback can be a boon.



Does a lot of jobs mechanically that you now do by hand or let go because of lack of labor. Breaks up soil cores after fairway aerification. Gets leaves out of low spots. Rakes roughs, wooded areas, traps. Reduces hand raking to absolute minimum. Removes thatch from existing sod. Works in seed and fertilizer. Smooths areas where frost heave or mole runs occur. Maintains gravel drives, parking areas, and more. Acclaimed by many leading golf course and park superintendents.

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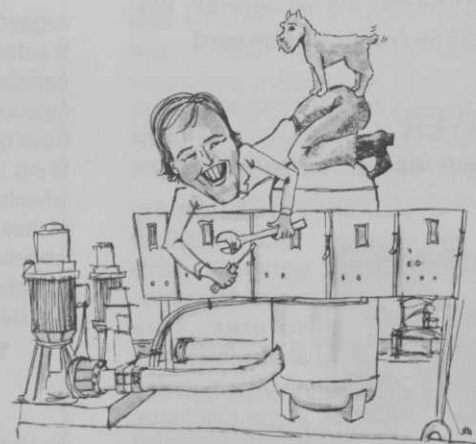


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books

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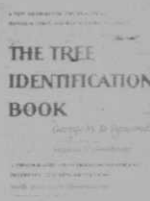


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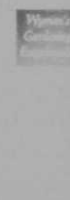
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Viewpoint



You all have set out there and read through my rabble rousing I don't know how many times, but as a result, we have had some real good ideas come in and have incorporated some of them into the magazine. And they have worked. I keep getting good comments in and everyone says we're headed in the right direction. Well, going somewhere isn't getting there unless you know where you're going to start with. We know where we're going and that is to be an indispensable form of communication for you. It's an ego trip for sure, but a righteous one. So what's my problem, you ask? Well, my ego is so big that if I don't get a letter from 11,885 superintendents, I don't think that GOLF BUSINESS is doing the job for each one.

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Lon Morris

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