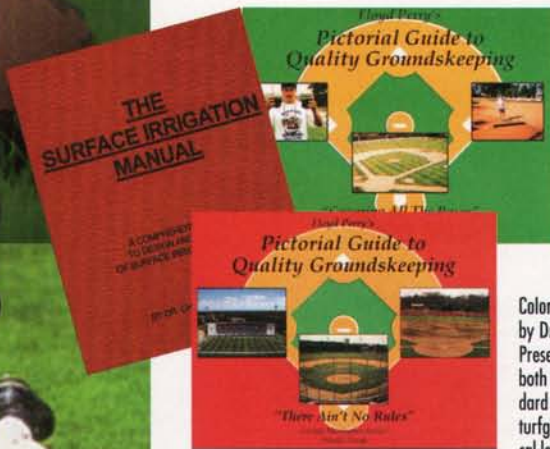


# ADAMS BOOK GUILD



### The Surface Irrigation Manual

by Dr. Charles Burt

The text delves in-depth into the proper design and operation of surface irrigation systems. Also covers subjects such as soil types, salinity, surge flow and infiltration. Indispensable aid for farming, educators in agriculture; irrigation design professionals for government agencies working with the agriculture industry. 400 pp (Missing Picture) 4007 Price: \$49.50

### Pictorial Guides to Quality Groundskeeping Book I and Book II,

by Floyd Perry

The only textbooks on the market for the grounds supervisor, athletic coach, little league volunteer, or baseball purist. Over 500 photos in each text with many in color. Book One, "Covering All The Bases" (100 pgs) covers Mound and Home Plate Repair; Edging, Dragging, Lip Reduction; Water Removal; Homemade Equipment and Tricks of the Trade. Book Two, "There Ain't No Rules", (108 pgs.) covers Football, Soccer, Softball, Little League, Minor League, College and High School Facilities. Also covers Curbside Appeal; Tricks of the Trade, New Ideas for Easy Maintenance; Professional Research from Higher Learning Centers and much more. 4008 - Book I 4009 - Book II Price: \$36.60 ea - or 4022 - 2 bk set \$69.90

### Management of Turfgrass Diseases Second Edition,

Joseph M. Vargas, Jr.

Completely revised and updated to provide the latest information on maintaining a healthy turf and identifying turf diseases. Covers cultural, genetic, biological and chemical approaches to turf management and provides practical solutions to everyday problems. Fungal, bacterial and viral diseases; black layer disease; and diseases caused by nematodes are addressed for all major grasses. Tips on irrigation, fertilization, and grass culture w. 72 full-page photos and more than 100 figures. 320 pgs. 4016 Price: \$67.00

### Guide to Golf Course Irrigation System Design and Drainage

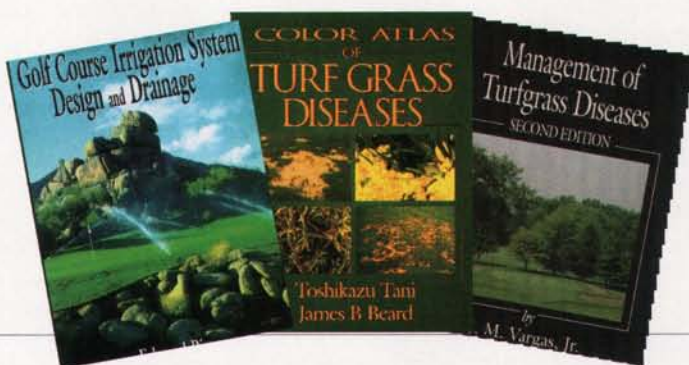
by Edward Pira.

This book covers every important aspect of the subject in an easy-to-understand format. It is perfect for practicing turfgrass manager & superintendent, consultant, sales representative and student. Used in academic courses for years, this is the first commercially available version. Completely revised with new exercises, practical examples, numerous new figures, and expanded sections covering a wide variety of irrigation system components, Guides the reader through every phase of an irrigation program from design to construction- from program scheduling to operation and maintenance. Turfgrass managers and golf course superintendents will refer to this book often to plan effective irrigation systems, ensure appropriate capacity, easy installation and practical operation and maintenance. 400 pp. Available August 1996 4004 Price \$59.95

### Color Atlas of Turfgrass Diseases

by Dr. Toshikazu Tani and Contributing Author, Dr. James B. Beard

Presents over 350 high-quality color photographs of all the major turfgrass diseases that occur on both warm and cool season grasses and it is international in scope. This book will become the standard color guide to disease diagnosis and pathogen identification for golf course superintendents and turfgrass practitioners. Maps are included to assist in disease identification by providing geographical locations where each disease/pathogen is likely to occur. It also provides color photos of step-by-step guidance on diagnostic techniques for laboratory analysis which can be used by practitioners. 140 pages. Available June 1996 4005 Price: \$79.95



## PLEASE COMPLETE THE FORM AND RETURN

Please indicate quantities of each publication.

### PAYMENT MUST ACCOMPANY ALL ORDERS

- \_\_\_ 4004 Guide to Golf Course Irrigation Systems \$57.95
- \_\_\_ 4005 Color Atlas of Turfgrass Diseases \$79.95
- \_\_\_ 4007 Surface Irrigation Manual \$49.50
- \_\_\_ 4008 Pictorial Guide to Groundskeeping #1 \$36.60
- \_\_\_ 4009 Pictorial Guide to Groundskeeping #2 \$36.60
- \_\_\_ 4022 Pictorial Guide to Groundskeeping 1 & 2  
(two book set) \$69.90
- \_\_\_ 4016 Management of Turfgrass Diseases \$67.00

Payment Enclosed To charge order by phone call 1-800-396-3939

Charge my Credit Card  Visa  M/C  Amex Signature \_\_\_\_\_

Card Number \_\_\_\_\_ Exp Date \_\_\_\_\_

IL residents add sales tax.

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Type of Business \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

INCLUDE SHIPPING & HANDLING	
1-2 bks	\$5.50
3-6 bks	\$7.50
7-10	\$11.00
10+	\$14.00

ALL SALES ARE FINAL

**Safest Field***continued from page 30*

the use to which they are subjected. It is still possible, however, to produce an acceptable playing surface by adjusting maintenance practices to coincide with existing inferior soil conditions and turfgrass cover. Obviously, the degree of aesthetics and turfgrass health suffers, which has a direct effect on expectations for that area, especially if the field is scheduled with activity that is beyond its capability.

The following list of turfgrass maintenance items are what I consider to be the most important in descending order. Obviously, there may be some, perhaps even many, who would disagree or dispute my priorities; however, they are based on developing an acceptable, safe playing surface regardless of the budget available. The list assumes that the rootzone and turfgrass species and variety are already in place.

**1. Irrigation**

Even if the playing surface is comprised of undesirable weeds and grasses, if it's green and thick it can provide acceptable play. Irrigation is the best insurance for keeping desirable turfgrasses alive and healthy, preventing the encroachment of weeds and other undesirable grasses. Prudent management of the irrigation system will promote the most effective and efficient use of water in maintaining good playing conditions.

**2. Mowing**

Having the proper mowing equipment and mowing at the proper height and in the proper manner will go a long way toward producing a good playing surface. Proper mowing techniques will enhance the surface safety, playability and aesthetics.

**3. Fertilization**

To get the most out of what you have requires a proper diet. With heavy-duty activity, the turfgrass must be given a chance to grow and repair itself, and a fertility program, no matter how modest, will help promote a healthier plant. Proper timing based on the physiological growth characteristics of the plant is very important. More money available in the budget gives more options and opportunity for long-term extended growth.

**4. Aeration**

Regardless of the soil type there eventually comes a need to open up the soil surface and upper portion of the rootzone area to relieve soil compaction. This allows water

and oxygen to flow more freely within the soil profile, creating a better growing environment and better playing conditions.

**5. Topdressing**

Applying a small amount of sand/soil mix to the turfgrass surface helps to level the field while creating a growing medium to assist the turfgrass in its growth expansion. It also helps to decrease excessive thatch and provide a firm, resilient surface for play.

**6. Pest Control**

No turfgrass area is immune from weeds, insects or diseases, and periodic control measures are usually necessary. Knowing the conditions that invite pests into the turfgrass environment is very valuable information. The timing and type of control is of equal value. A local Extension Service or university is a valuable resource for help.

**7. Dethatching**

Thatch in turfgrass areas is created when the rate of dead plant material (roots, rhizomes, stolons and stems) exceeds the ability of the biological community of the soil to decompose it. Excessive thatch inhibits water and nutrients from entering the rootzone. Excessive thatch can also create an environment for the proliferation of undesirable microbial activity that can present disease and insect problems. And, excessive thatch can affect the playability of the field. Players on heavily used sports fields can perform their own dethatching just by the amount of activity.

**8. Overseeding**

Overseeding is one of the best practices available for thickening existing turfgrass stands or changing a turfgrass stand from one species to another, such as the case with dormant warm season grasses in the winter being converted to a cool season species. The success of an overseeding program involves proper seedbed preparations, proper seeding application methods and rates, proper moisture levels during the establishment period, proper nutritional supplements and an adequate non-use period for the field in order for the turfgrass to become well established.

For programs with constant use on the playing fields, the success of overseeding will be extremely limited. Not only is overseeding expensive in terms of time and money, but to be truly successful requires the field to be shut down for a period of time for establishment to take place, something most high-use playing fields do not have the luxury of doing. For this

reason I've chosen to put overseeding way down on the list of priorities. Obviously, if adequate downtime can be afforded, then overseeding would move way up on the list of priorities; however, with daily field activity, overseeding is not much of an option for creating a turfgrass stand.

**9. Sodding**

The quickest way to create a turfgrass stand or to repair worn-out turfgrass is by sodding. Just as with seeding, soil preparation is a key element in the success rate of sodding. Providing the proper soil texture, structure, nutrient availability and moisture will greatly enhance the establishment, health and vigor of sod.

It's also important to remember that the sod's soil should be of similar texture to that of the prepared soil to avoid layering, which drastically affects water infiltration and percolation. Keep in mind, also, that newly sodded areas require very different irrigation regimes than those of established sod for at least three to four weeks under adequate growing conditions.

Because of this, sodding worn-out areas on a field will require a greater amount of effort and time in selective irrigation so as not to over-irrigate the existing turfgrass areas. This is also the most expensive way of providing a turfgrass stand, initially. However, when considering the overall costs of sodding versus seeding, turf managers will find that they pretty much even out when both become established.

**Summary**

The primary purpose of a sports turf manager is to provide a safe and aesthetic playing surface that offers the most optimum playing conditions possible. Obviously, the more time and money that is available, the more options will exist for providing better conditions.

What I've attempted to present here is a list of priorities that one can pick and choose from depending on his or her budget and represents only a set of guidelines toward maximizing the budget dollar. Each turf manager is unique with varying degrees of expectations for playing field conditions, but for the safety of the players and the health of the turfgrass, this list may be a useful tool in developing your management strategies for building the best field on any budget. □

*Steve Wightman is stadium turf manager for San Diego's Jack Murphy Stadium.*

**ADAMS / GREEN INDUSTRY  
PUBLISHING PRESENTS...**

**GreenNet on the  
World Wide Web**

**THE INDUSTRY'S  
COMPREHENSIVE  
WEB SITE**

***GreenNet Features Include:***

**Exclusive Editorial**

**Searchable Editorial Archives**

**Constantly Updated Calendars**

**Association Information**

**Trade Show Information**

**On-Line Marketplace**

**Product and Services Databases**

***...all tied in directly to the***

***10 Adams/Green Industry Publishing Titles***



**TO SEARCH THE WONDERS  
OF GREENNET LOOK US UP  
UNDER:**

**<http://WWW.aip.com>**

**Adams/Green Industry Publishing 68-860 Perez Rd., Cathedral City, CA 92234 619-770-4370**

# SCOREBOARD

## CLASSIFIEDS

### • Display Rates: (Per Column Inch)

1x: \$140      6x: \$115  
3x: \$130      12x: \$100

### • By The Word Rate:

\$ .95 per word, per insertion. Initials and abbreviations count as full words. Minimum charge \$55.

### • Business Card Rates:

1x: \$300    6x: \$275    12x: \$250

### • Deadline:

The 15th of the month prior to publication date.

### • Note:

All classifieds are payable in advance. Ads using cuts or special borders will be charged at display rates. Ads are non-commissionable. Blind ads will be charged an additional \$10.

### • For Space Reservation Contact:

Linda Serio, Classified Sales  
2101 S. Arlington Heights Road  
Arlington Heights, IL 60005-4142  
(847)427-2085 • FAX (847)427-2006

## HELP WANTED

### TECHNICAL GROUNDS PRODUCTS REP

Opti-Gro, a division of a world-wide manufacturing corporation, is looking for a motivated individual with a life-science background. We manufacture and market a complete line of technical grounds care products. Our sales representatives enjoy financial growth and the opportunity to advance. Customers include municipalities, institutions, industry and many others. We offer:

- Thorough Training
- Local Territory
- Repeat Sales

If you have a successful background and are willing to make a commitment, please send resume to:

**John Hawkins**

**Opti-Gro**

**One Mack Centre Drive**

**Paramus, NJ 07652**

**or fax resume to 201-261-7882**

**Positions available in the North East**

## INDEX OF ADVERTISERS

Adams' Book Guild .....	31
Agro-Tech 2000, Inc. ....	13
Cygnat Turf & Equipment .....	10
Diamond Demon .....	27
Fine Lawn Research, Inc. ....	26
First Products Inc. ....	22
Goossen Industries .....	21
Gordon Bannerman LTD. ....	16
International Seeds, Inc. ....	36
Jaydee Equipment .....	25
J.C. Whitlam Mfg. Co. ....	27
Kubota Tractor Co. ....	2
McCord Tire .....	35
Partac/Beam Clay .....	21
Premier Environmental Products, Inc. ....	3
Seed Research of Oregon, Inc. ....	7
Star Transportation, Inc. ....	23
Terracare Products Co. ....	25
The Toro Co., Commercial Products Div. ....	15
Thomas Bros. Grass .....	14
Turfgrass Producers International .....	11
Turf Specialists Corporation .....	14
West Coast Turf .....	5
World Class Athletic Surfaces .....	29

### POND AND LAKE LINERS

Buy direct from fabricator  
20, 30, 40 mil PVC, Hypalon,  
HDPE & Polypropylene.  
Custom fabricated panels of up  
to 25,000 S.F. Material only,  
Material & Supervision  
or Complete Installation  
Service available.



**Colorado Lining**  
COMPANY

(800) 524-8672  
1062 Singing Hills Rd.  
Parker, CO 80134  
(303) 841-2022  
FAX: (303) 841-5780

## DO YOU NEED PRODUCT INFO FAXED TO YOU NOW?

**USE THE ADAMS FASTFAX SYSTEM\* BY CALLING: 1 (800) 817-1889**



Simply dial our 1(800) number, and follow the simple instructions; when you hang up, the information you requested will be faxed immediately and directly to the fax number you entered.

\*Product information can only be received from those advertisers with a FASTFAX #.

**Just another important service to our readers brought to you by your friends at Adams.**



## Supplier BookMarks On The Web

<b>WEATHERMATIC</b> .....	<a href="http://www.weathermatic.com">http://www.weathermatic.com</a>
<b>LOFTS SEEDS</b> .....	<a href="http://www.turf.com">http://www.turf.com</a>
<b>AMPAC SEED COMPANY</b> .....	<a href="http://www.ampacseed.com">http://www.ampacseed.com</a>
<b>TANAKA/ISM</b> .....	<a href="http://www.aip.com/Advertisers/Tanaka/tanaka.html">http://www.aip.com/Advertisers/Tanaka/tanaka.html</a>
<b>WEST AG IRRIGATION PRODUCTS</b> ..	<a href="http://www.westag.com">http://www.westag.com</a>

**FOR CLASSIFIED ADVERTISING  
CALL LINDA SERIO  
TODAY.  
(847) 427-2085**

# McCord Flotation Tires can eliminate costly tire rutting.



Golf Course Superintendents country-wide have proven that **McCords** Flotation Tires are essential during the following delicate operations:



- **Top Dressing • Spraying • Mowing • Back Filling Traps • Aerating**

The large contact area of the flotation tire effectively distributes load over a broad area. This produces lower unit ground pressure resulting in minimized soil compaction.



Our custom built tire and wheel combinations will convert your golf course equipment into the most productive tools you will ever own. For further information call our toll free number today.

# McCord

**Terra-Tire Sales and Service**

US 24 West, Box 743, Monticello, IN 47960 • In the United States and Canada 800-348-2396 FAX: 219-583-7267

Call 1(800) 817-1889 use **Fast Fax #1210796** and/or Circle 121 on Postage Free Card