

# Thank You



**A**s warming weather moves spring sports onto the field, it's time to take a quick pause to say thank you to all those who have made STMA Chapters so successful in 1999 and to all those who have made the commitment to actively support their chapters in 2000.

The administrative tasks associated with running a chapter take hours of hard work by each chapter's officers, board members, committee chairs and committee members. Records must be maintained, funds collected and bills paid. There's more time involved in developing and maintaining communication channels: a newsletter, hot-line, Web site or calling tree. Chapter programs for scholarships, fields of the year or service projects all must be developed and coordinated by more volunteers.

There's a mountain of behind-the-scenes work that must take place for each event, whether it's an educational session, on-field workshop, vendor display, site tour or a combination of any of these. A team of individuals must come up with the idea; gain the approval of all involved; work out the scheduling and logistical details, including a back-up plan for inclement weather; line up the speakers, demonstration materials and equipment; put together the informational materials to alert potential attendees; coordinate the registration, funding, and/or sponsorships; coordinate the set-up, tear-down and on-site activities; and handle all the wrap-up details.

So please, do make a point to personally pass along a thank you to your chapter's dedicated team.

Also please thank Chapter Relations Chair Abby McNeal and our chapter sponsors: Gold Level for 1999 and 2000: Novartis and John Deere; Gold Level for 2000: Pro's Choice; and Silver Level for 1999 and 2000: Alpine Services and Hunter Industries.

Great job everyone!

## Chapter News

Congratulations to STMA's newest affiliated chapter:

**YOUR ONE-STOP  
SOURCE FOR AMERICA'S  
LEADING BASEBALL  
SURFACES & SUPPLIES!**



**USED BY OVER 100 PRO TEAMS!  
PLUS 8 OF THE LAST 10 WORLD SERIES CHAMPS,  
OVER 600 COLLEGES, AND THOUSANDS OF  
TOWNS & SCHOOLS WORLDWIDE!**

**800-247-BEAM**

908-637-4191 / FAX 908-637-8421

**DISTRIBUTION CENTERS NATIONWIDE!  
OVER 200 INFIELD PRODUCTS  
FREE INSTRUCTIONAL BROCHURES**

**"The best infield mix I've ever used in 59½ years  
of groundskeeping!" — GEORGE TOMA**

Call 1 (800) 817-1889 use **Fast Fax #1350300** and/or **Circle 135** on Inquiry Card

## New From Kromer



**Kromer U-utility Athletic Field Maintenance Machine  
(AFMM™)**

One machine does it all - lining - grooming -  
spraying - line cutting - ridge removal, etc.

13hp engine for more power.

Heavy duty hydrostatic transaxle.

High back - comfortable - adjustable seat.

Specialists in Athletic Field Maintenance Equipment

**Kromer Co. • Mound, MN 55364  
(800)373-0337 • Fax (612)472-4371  
www.kromer-afm.com  
e-mail: kromer@kromer-afm.com**

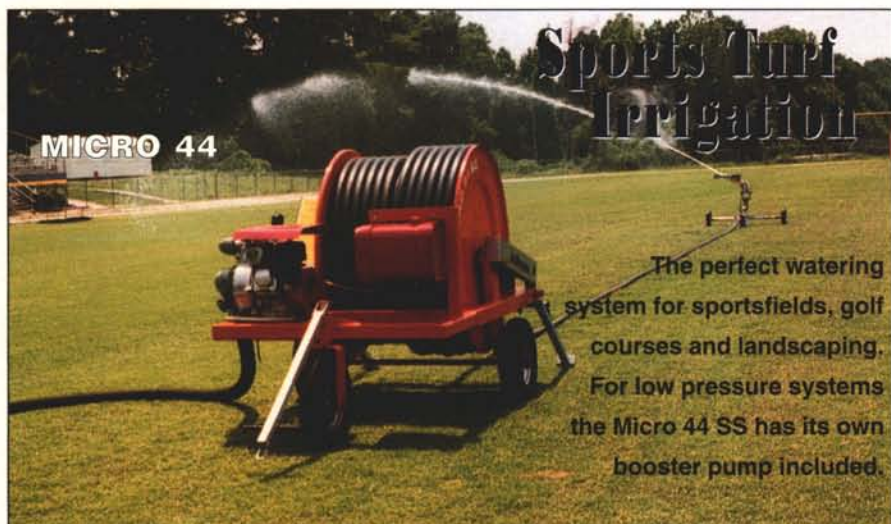
Circle 125 on Inquiry Card

The Gateway Chapter Sports Turf Managers Association. For information on upcoming events or on the chapter, contact: Jim Anthony, Saint Louis University, St. Louis, Mo., at (314) 977-3228.

**Florida #1:** The chapter will participate in the IFAS/South Florida Expo on March 16. The chapter will also meet on May 16 at the Miami Dolphins training camp. Meeting focus will be weed control. For infor-

mation on the Florida Chapter or pending activities, contact: John Mascaro at (954) 341-3115.

**KAFMO:** KAFMO will participate in the Northwest Pennsylvania Athletic Field, Turf and Ornamentals Conference, which will be held from 8 a.m. to 3:15 p.m. on March 21 at Allegheny College in Meadville, Pa. General session topics and presenters are: "Building Your Toolbox Online," by Joel Hunter of Crawford County Extension; "What Does the FQPA Mean to the Green Industry," by William Hoffman of Penn State University; and "Soil Health and Its Importance to Turf," by Mark Altman of Altman & Altman Consulting. Athletic field options in the three breakout sessions are: "The Anatomy of a Ballfield Failure," presented by Tim Anderson of UHS, Quantumleaf Consulting; "Is My Field Safe?" presented by Don Fowler of KAFMO; and "Putting It All Together," presented by Mark Altman. For information on the KAFMO Chapter STMA or upcoming events, contact: Dan Douglas, Reading Phillies Baseball Club, at (610) 375-8469, extension 212 or via the chapter e-mail address: kafmo@aol.com.



For further details contact:

**ABI**

P.O. Box 909, Villa Rica, GA 30180  
**1-800-832-6224**  
 770-459-4401; 770-459-6877 Fax

Circle 132 on Inquiry Card

**If they could, they would...**

**Play their game on Thomas Bros. Grass**

That's because they know Thomas Bros. grows and installs the finest quality turf grass for golf courses and sports fields. With 17 different turf varieties, Thomas Bros. can provide durable, attractive playing surfaces for any grass field (sorry, hockey!)

**Call Today 888-New-Grass**  
 A Turfgrass America Company

**North Texas:** NTSTMA has elected officers for 2000. They are: President—Dr. James McAfee, Texas A & M University; President-Elect—Rene Asprion, Diamond Pro; Commercial Vice-President—Scott Piecha, Gail's Flags; Secretary—Kathy Cassmeyer, Lockheed Martin Missiles and Fire Control, Dallas; Treasurer—Mickey Landry, City of Colleyville Parks Department; Membership Chair—Mike Reber, City of Flower Mound Parks Department; Communication/Publicity Chair—Helen Manroe, Turfgrass America; Program Chair—Jim Brown, Tex-Sand Sport Turf Specialty Company; and Meetings Chair—Gregg Zimmerman, City of University Parks. For information on the North Texas Chapter or pending activities, contact: Rene Asprion, Diamond Pro, at (800) 228-2987 or Dr. James McAfee, Texas A & M University, at (972) 952-9220, or check the website: www.ntstma.org.

**Great Lakes:** GLSTMA has announced their annual Award Recipients. They are: Oak Harbor High School—Football Field of the Year (Gary Cousino); Heritage

Call 1 (800) 817-1889 use **Fast Fax #1270300** and/or Circle 127 on Inquiry Card

A well-run event is no accident: Behind the scenes, a group of dedicated individuals must, among other things, work out schedules, line up speakers, prepare back-up plans in case of an emergency and coordinate the set-up and wrap-up details of the event.



Stadium, Baldwin Wallace College—Division III Baseball Field of the Year (Duane Smith); Buckeye Softball Field, Ohio State University—Softball Field of the Year (Brian Gimbel); Bill Davis Stadium, Ohio State University—Division I Baseball Field of the Year (Brian Gimbel); Gercey Park, Ottawa Hills High School—High School Baseball Field of the Year (Tim Erickson); and Cat Stadium, Sylvania Recreation/Sylvania Schools—Soccer Field of the Year (K. J. Petinoit and Brian Hall). The President's Award for the turf manger who stands out in Ohio went to Brian Gimbel from Ohio State University. The Commercial Affiliate of the Year was The Andersons. For information on the GLSTMA Chapter, the Chapter's Field of the Year Program or upcoming events, contact: Joe Zelinko at (800) 897-9714 or Boyd Montgomery at (419) 885-1982 or click on your computer to [www.glstma.org](http://www.glstma.org) to visit the chapter's Web site.

**Wisconsin:** The chapter will hold its Spring Meeting in early May at the Nienhaus Sports Complex and Appleton North High School Athletic Fields in Appleton, Wis. The exact date and further details will be announced soon. For more information on the Wisconsin Chapter or pending events, contact: Rich Riggs, R. H. Rettler & Associates, Inc. at (715) 341-2633.

**Arizona:** For information on upcoming events or on the chapter, contact:

Bill Murphy, City of Scottsdale Parks & Recreation Department, at (602) 312-7954.

**Colorado:** For information on the chapter or upcoming activities, log on to the chapter's Web site:

[www.cstma.org](http://www.cstma.org) or call the CSTMA Chapter Hotline: (303) 346-8954.

**Midwest:** For information on the chapter or pending activities, call: The Chapter Hotline, (847) 622-3517.

## Pre-game Line-up

**Starters**  
— Baseball & Softball —



Turfgrids® are durable, fibers for turf reinforcement



Stabilizer® natural soil binder for a firm and resilient playing surface with native soils, crushed stone or calcigned clays.



Hilltopper® is a flexible and stable compound for mounds and home plate areas. No water needed.



Stabilizer Infield Conditioner™ does it all. It adds life & resiliency, eliminates dust & reduces mud.



TenthMan™ tools offer Grounds Keepers labor saving innovations.

U.S.A. toll free 800•336-2468  
tel 602•225-5900 fax 602•225-5902  
[www.StabilizerSolutions.com](http://www.StabilizerSolutions.com)  
205 South 28th Street  
Phoenix, Arizona 85034 U.S.A



Circle 138 on Inquiry Card

**Minnesota:** For information on the chapter or upcoming events, contact: Connie Rudolph at (651) 646-1679 or Ron Werner at (507) 634-1176.

**Tennessee Valley:** For information on the TVSTMA Chapter or upcoming events, contact: Bill Marbet, Southern Athletic Fields, Inc. at (913) 380-0023 or Bob Hogan at (888) 224-6426.

**Northern California:** For information on the Nor-Cal STMA Chapter or pending activities, contact: Janet Gift at (530) 758-4200.

**Southern California:** For information on the chapter or pending activities, contact: The Chapter Hotline, (888) 578-STMA.

**Indiana:** For information on the chapter or pending activities, contact: Terry Updike, B & B Fertilizer, at (219) 356-8424 or Pat Hickner at (800) 672-4273.

**Iowa:** For information on the chapter or upcoming activities, contact: Lori

Westrum at The Turf Office at (515) 232-8222 (phone), (515) 232-8228 (fax) or e-mail: Lori@iowasturfgrass.org.

**Michigan:** For information on the chapter or pending events, contact: Rick Jurries, West Ottawa Public Schools, at (616) 395-2364.

**MAFMO:** For information on the chapter or pending activities, contact the Hotline: (410) 290-5652.

**Mid-South:** For information on the chapter or upcoming events, contact: Jim Calhoun at (901) 755-1305 or Robert Bodi at (901) 383-2414.

### Chapters On The Grow

**Nebraska:** A new chapter is taking shape in Nebraska. For information on the chapter or upcoming events, contact: Greg Bostelman, City of Grand Islands, at (308) 385-5426.

**New Jersey:** For information on this forming chapter or upcoming events, contact: Jim Gavigan, Lesco, at (732) 248-8979 or Eleanora Pene, director,

Township of Clinton Parks & Recreation Department, at (908) 735-5999.

**Kansas City, MO/KS:** A meeting will be held on Saturday, April 1, at Kauffman Stadium, home of the Kansas City Royals. This event will feature demonstrations on mound and home plate building; basepath preparation and maintenance; field painting; and equipment use. Question and answer sessions with those providing the demonstrations will be part of the program. For information on the forming chapter or upcoming events, contact: Trevor Vance at (816) 504-4271; John Cundiff at (816) 525-7600; Bill Tritt at (816) 941-4424; Jody Gill at (913) 681-4121; Gary Custis at (816) 468-6215; or Jay Sutton at (816) 795-8873.



## Get Serious With STMA

### Application for Membership



The Sports Turf Managers Association (STMA) is an organization of professionals representing all segments of the sports turf industry. Our members work to combine the science of growing turfgrasses and the art of maintaining sports turf to produce playing fields that are both safe and aesthetically pleasing.

STMA provides members with a variety of benefits, including: educational opportunities; support for sports turf research; facilities tours; a national awards program; job hotline; access to the STMA National Conference & Exhibition; complimentary subscriptions to Sports Turf Manager and sportsTURF Magazine; and MUCH more!

**If you're serious about the sports turf industry, then it's time to become a member of STMA. Join today!**

#### Member Information

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Employer \_\_\_\_\_  
Type of Business \_\_\_\_\_  
Address \_\_\_\_\_  
City/state/zip \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_  
E-mail Address \_\_\_\_\_  
Signature \_\_\_\_\_  
Referred by \_\_\_\_\_  
(ST#99)

#### Membership Category (please check one)

I - Professional Sports Turf Facilities Managers \$ 85  
 II - Four-year Colleges and Universities Sports Turf Facilities Managers \$ 85  
 III - Other Schools Sports Turf Facilities Managers \$ 85  
 IV - Parks & Rec. Sports Turf Facilities Managers \$ 85  
 V - Commercial (US or International) \$ 295  
 Va - Additional from same Commercial Company \$ 50  
 VI - Student (full-time w/valid ID) (non-voting) \$ 20  
 VII - International (other than commercial) \$ 85  
*(must be in US dollars)*  
 VIII - Research, Teaching & Cooperative Extension Personnel \$ 85  
 Chapter Dues (Call Headquarters for amount) \$ \_\_\_\_\_

Total amount enclosed \$ \_\_\_\_\_

Please enclose payment in U.S. dollars (check, money order, Master Card, Visa, Discover or American Express) and send to:

Sports Turf Managers Association, PO Box 3480, Omaha, NE 68103-0480

For more information, contact STMA Headquarters at 800/323-3875, 712/366-2669, fax: 712/366-9119 or e-mail: SportsTMgr@aol.com

*"Promoting Better and Safer Sports Turf Areas"*

# CLASSIFIEDS

## HELP WANTED

### Sales Turf Care Professional

East Coast distributor of nursery stock, seed, fertilizer, & other turf products for golf course, athletic fields, & parks prof. mrkt, seeks industry professionals for No.NJ/So.NY. Candidates must have an excellent record of recent exp in selling to the prof turf mrkt, or recent exp as a Turf Mgr w/excellent product knowledge. Please submit resume w/references in strict confidence to:

**Northern Nurseries, Inc.**  
1695 King St.  
Enfield, CT 06082

### Estimator/Project Manager

Superior Hydro-Seeding has a position open for an individual with public and private works experience. Applicant must possess skills in: math, computer use and communication and should be knowledgeable of construction schedules, deadlines and details. Good salary and incentives. Please mail or fax your work history to:

**Superior Hydro-Seeding**  
250 W. Riverside Drive  
Watsonville, CA 95076  
(831) 763-2023

Call  
Rich  
Schneider  
for  
classified  
rates and  
information

(847)  
427-2035

## FOR SALE

### VERTI-DRAIN

Nation's #1 VERTI-DRAIN distributor has overload of trade-in VERTI-DRAINS. Model 305.200's priced from \$7995. Excellent for sports fields and fairway applications. All in good running condition. Will completely rebuild for additional cost. Call today.

**Commercial Turf & Tractor**  
800-748-7497

### GLOBALSEEDS.COM

Order seeds online -  
Sales of Lawn & Turfgrass Seeds  
All grass seeds available. -www.grassseed.com  
Commercial sales @  
www.globalseeds.com  
Toll Free (888) 820-2080

## CLASSIFIED ADVERTISING

*Does the work for you!*

## sportsTURF SALES TERRITORIES

CT, DC, DE, IN, MA, ME, MI, NH, NJ, NY, OH, PA, RI, VT

**Paul Garris**

35 Greenbriar, Aurora, OH 44202  
(330) 562-2512 (330) 562-3512 (fax)  
pgarris@mail.aip.com

AK, AZ, CA, CO, HI, ID, MT, NM, NV, OR, UT, WA, WV

**Rebecca Nelson**

21351 Falkirk Lane, Lake Forest, CA 92630  
(949) 455-1219 (949) 455-0449 (fax)  
rnelson@mail.aip.com

AL, AR, FL, GA, KS, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, WY

**Deanna Morgan**

2565 N.Arbor Trail, Marietta, GA 30066  
(678) 445-5211 (678) 445-5611 (fax)  
dmorgan@mail.aip.com

IA, IL, MN, MO, NE, ND, SD, WI

**Colleen Murphy**

Millennium Marketing Group, Ltd.  
306 E. Sunset Dr., Arlington Heights, IL 60004  
(847) 590-1162 (847) 590-1163 (fax)  
cnmmurphy@earthlink.net

**Jeff Boulden**

Group Publisher

2101 S. Arlington Heights Rd., Suite 150,  
Arlington Heights, IL 60005  
(847) 427-2056  
(847) 427-2006 (fax)  
jboulden@mail.aip.com

**Ellen Norton**

Marketing Research Manager

2101 S. Arlington Heights Rd., Suite 150  
Arlington Heights, IL 60005  
(847) 427-2011  
(847) 427-2006 (fax)  
enorton@mail.aip.com

## ADVERTISERS' INDEX

ABI Irrigation	42
Bannerman	3
Beacon Ballfields	27
Broyhill Co.	38
Covermaster, Inc.	40
Cygnat Turf & Equipment	14
Delta Blue Grass Co.	23
First Products Inc.	32
Goossen Industries	15
H.D. Hudson Mfg. Co.	21
John Deere	10a,16-17,48
Kromer Co.	41
Kuranda USA	32
Laser Leveling Inc.	18
Lebanon Turf Products	24,25
LR Nelson Corp.	35
Millcreek Mfg. Co.	28
National Mower Co.	12
NCH Corp./Opti-Gro	35
Partac Peat Corp./Beam Clay	18,26,31,34,41
Pro's Choice, Inc.	22
Profile Products Inc.	39
Seed Research of Oregon	38
SISIS Inc.	33
Southern Turf Nurseries	26
Southern Athletic Fields, Inc.	31
Stabilizer Solutions, Inc.	43
Thomas Brothers Grass	42
TifSport	13
Tiftway Sports Inc.	27
Toro Company	2,5
Tri-State Athletic Field Services	13
Turfco Mfg. Inc.	37
West Coast Turf	9
World Class Athletic Surfaces	39

# Dealing with a Hard Pan



Have Questions? Send them to Dave at: ISU, Hort. Dept., Ames, IA 50011

by Dr. Dave Minner

I would like your opinion on the type of aerifying unit to purchase. Here are some of my concerns, all related to aerifying a native soil field. I think that everybody agrees that we should pull a plug when aerifying. If that plug is always pulled at, for example, a 4-inch depth, I believe that over time a hard pan will develop at that depth. I have seen this in agriculture using a moldboard plow and especially with a disc. The only way to alleviate this problem is to rip the ground about 18-inches deep. In turf we would use a deep tine machine to do the same thing. Most of the affordable plug aerifiers will only pull a plug to a depth of 4 inches. So, here is my question:

## CULTIVATION GOALS

There are many cultivation methods available for sports turf management. The best method of cultivation can be selected when specific cultivation goals have been determined.

Cultivation Goal

	HOLLOW TINE 4-INCH	SOLID TINE 4-INCH	HYDROJECT	SHATTER CORE 4-INCH	VERTIDRAIN	FLOYD MCKAY DRILL & FILL	SLICING/SPIKING	VERTICAL MOWER
<b>Cultivation between playing seasons (no activities scheduled on the field)</b>								
Change soil type in top 4 inches by removing soil and back filling with amendment	X							
Create large and deep holes that are back filled with a soil amendment such as Profile						X		
Remove surface soil layer that was attached to sod during sand-based field construction	X							
Promote deep rooting, 8 inches or more		X	X	X	X			
Maximum removal of water puddles				X	X			
<b>Cultivation during playing season</b>								
Increase initial water infiltration rate with minimal disturbance to surface		X	X				X	
Plant seed with minimal disturbance to grass and soil stability		X						
Encourage lateral growth of sod forming grasses							X	X
Fracture hard skin infield, drag surface and begin play			X					

If we are only able to afford one type of aerifier, would you be better off buying something like an AerWay type machine? They will go 6- or 7-inches deep, and claim to shatter the soil to an even deeper depth, including a sideways shatter. You would still have a hole in the ground for fertilizer and top dressing, but would lose the opportunity to turn the soil by pulling a plug. Would more frequent usage of the AerWay unit make up for not pulling a plug? I was able to get a demo with AerWay and on very compacted soil it will pull a "chunk" of soil out of the ground. On non compacted soil it will just make a hole with a minor disturbance to the soil surface.

Ken Hanawalt  
Transportation Director/Grounds Keeper  
Rockwell-Swaledale Community Schools  
Rockwell, Iowa

Let me first say that we sports turf managers have developed a real love affair for sticking steel in the ground to create better growing conditions, and this has been driven by the great array of cultivation equipment that is on the market today. Aerification equipment can range from \$2,000

to \$20,000 and this gives nearly every sports field manager some opportunity to purchase a piece of equipment that can improve their field situation.

When selecting cultivation equipment first consider your specific goal. Coring, slicing and shattering are all beneficial, but they may not produce the effect that you desire unless you know what it is that you are trying to achieve. Examples of specific aerification goals and the equipment needed to produce the desired effect are listed below.

Now for your specific question. It is true that some research indicates that a compacted layer could develop just below the depth of the cultivation tines. From a practical aspect I would not worry too much about this hard pan phenomenon.

Most of the sport field situations that I encounter are more concerned with reducing surface compaction from excessive traffic rather than a hardpan layer caused by aerification equipment. What I typically see is that roots proliferate in the zone of aerification and then decrease below that zone of aerification, even if a hard pan does not exist.

Should a hard pan layer or any other type of layer develop below the 4-inch depth, simply contract with an aerification company that uses deeper penetrating equipment that can probe the field at depths of 8 to 18 inches. Watch out for the irrigation lines when using deep tine equipment and don't consider deeper aerifi-

cation only when you have a layering problem. It is becoming more of a routine practice on tight soil and even on sand-based fields.

As to what type of aerifier to purchase, I would always recommend that you first consider a good reciprocating tine machine that can utilize both hollow tines and solid tines. This gives you the most flexibility when deciding about core removal and topdressing incorporation. Slicing and fracturing machines are beneficial, but I would not consider them as a substitute for hollow coring. The tufts of grass that come up from seeding and persist in hollow core holes, even after continued traffic, are a real testimony to the usefulness of coring type aerifiers. Remember, any type of aerification will be better than none at all. So buy the machine that you have the most confidence in and use it often.

David D. Minner, Ph.D., is an associate professor with the Department of Horticulture at Iowa State University. He serves on STMA's Certification Committee. Send your questions to Dave AT: ISU, Hort. Dept., Ames, IA 50011; or call: (515) 294-0730, or e-mail: dminner@iastate.edu.

Buy online at *Feature of the Month*

www.industrybooks.com

# Bookstore

Full description of books can be found on [www.industrybooks.com](http://www.industrybooks.com)

## Order Form

Name			
Title			
Company			
Type of Business			
Street (No P.O. Boxes)			
City	State		
Zip	Country		
Phone	Fax		
E-mail			
Charge my Credit Card	<input type="checkbox"/> Visa	<input type="checkbox"/> M/C	<input type="checkbox"/> Amex
Card #			
Signature	Exp		

**All Sales Final  
Prices Subject to Change  
No Purchase Orders Accepted  
Payment must accompany all orders**

Quantity	Item Code	Price per Item	Total
	4089	\$45.00	
	4008	\$36.60	
	4009	\$36.60	
	4022	\$69.90	
	4084	\$74.95	
	4067	\$49.95	
	4068	\$49.95	
	4150	\$65.00	

Add 8.25% tax for Illinois residents

**Shipping & Handling (UPS delivery)**  
1-2 bks \$7.50    7-10 bks \$15.00  
3-6 bks \$10.00    10+bks \$21.00

International Shipping (add US\$20)

TOTAL AMOUNT DUE (NO COD)

**Make checks payable to:**

**ADAMS BOOK GUILD**

2101 South Arlington Heights Road, Suite 150

Arlington Heights, IL 60005-4142

Tel: 1-800-396-3939 •

Fax: 847-427-2037

Please allow 4 weeks for delivery

Check out our Fire Sale Items at

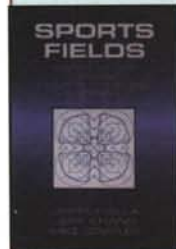
[www.industrybooks.com](http://www.industrybooks.com)

Call for quantity discounts!



### Destructive Turfgrass Insects: Biology, Diagnosis, and Control, by Daniel A. Potter,

This book has the answers you need to control white grubs, mole crickets, fire ants, and other pests. Stinging and biting insects such as yellow jackets and ticks are included, as well as nuisance wildlife such as moles, raccoons, and more. Covers the biology, diagnosis, and control of virtually all of the insects and mites that attack warm and cool season turfgrasses. Over 250 full color photographs. 400 pgs. 4150 \$65.00



### Sports Fields: A Manual for Design, Construction and Maintenance,

by Jim Puballa, Jeff Krans,  
and Mike Goatley,

This book covers every important aspect of planning, design, construction and turfgrass maintenance with hundreds of illustrations and step-by-step procedures to help you get the job done right. No other book provides such intricate detail, combined with easy-to-understand guidance. Sports Fields is unparalleled in quality, practicality, and scope. In Part 1, you will learn the basics of turfgrass science and culture. Part 2 provides complete instruction on facility design, construction and renovation—for football, soccer, field hockey, lacrosse, and more. Part 3 covers other facilities such as playground surfaces, and volleyball courts. Procedures for equipment use, quality assurance, and safety are covered in Part 4. In Part 5, you will learn about stadium management, sand fields, turf paints, and many more useful topics. 600 pgs. 4084 \$74.95



### Golf Course Tree Management, by Sharon Lilly

This is the most useful information available to the golf course superintendent, course architect, and manager! This book will teach you the basic science, along with real world techniques to assist your in-house tree care program, to guide you in the selection of a qualified arborist and in the writing of comprehensive maintenance specifications. 220 pgs. 4089 \$45.00



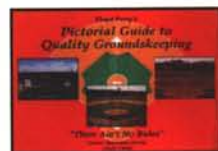
### The ABC's of Grounds Maintenance: Volume 1 Softball Fields, by Ground Maintenance Services,

A videotape training series for softball groundskeepers. Computer graphics and detailed explanations provide unique insight and understanding of athletic field care. These videos also make great teaching tools for new, part-time & temporary field assistants. Features settings of hitting pads; chalking batters box; chalking fair line; sinking multiple pitching; rubbers; sinking multiple bases; breaking up hard clay; surfaces; water removal in clay; areas; edging the running track. VIDEO. 40 minutes. 4067 \$49.95



### The ABC's of Grounds Maintenance: Volume II Baseball Fields, by Ground Maintenance Services,

A videotape training series for Baseball groundskeepers. Computer graphics and detailed explanations provide unique insight and understanding of athletic field care. These videos also make great teaching tools for new, part-time & temporary field assistants. Features setting/rebuilding; homeplate area; rebuilding pitchers mound; sodding dugout walkways; application of crushed; brick; rounding infield crescent; complete infield; repair of turf; fertilizing & overseeding, patterns; reducing infield lips; removal of dew from grass; water removal in clay areas; edging the running track. VIDEO. 55 Minutes. 4068 \$49.95



### 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 Covering All The Bases-Book I \$36.60  
4009 - There Ain't No Rules- Book II \$36.60  
4022 - Pictorial Guides to Quality Groundskeeping 2 book set. \$69.90