



It's like getting a superstar at a rookie's salary.

John Deere Assured Equipment. Works like new, priced like used. It's the ultimate win-win: John Deere quality at a price that's well within reach. John Deere Assured is certified, pre-owned equipment that is put through an intensive 100-point inspection. If parts do need to be replaced, we use only genuine John Deere Parts. And once it passes inspection, we give it a one-year warranty.

The time has never been better to put John Deere on your team. Call your local distributor about John Deere Assured. Or go to www.johndeere.com



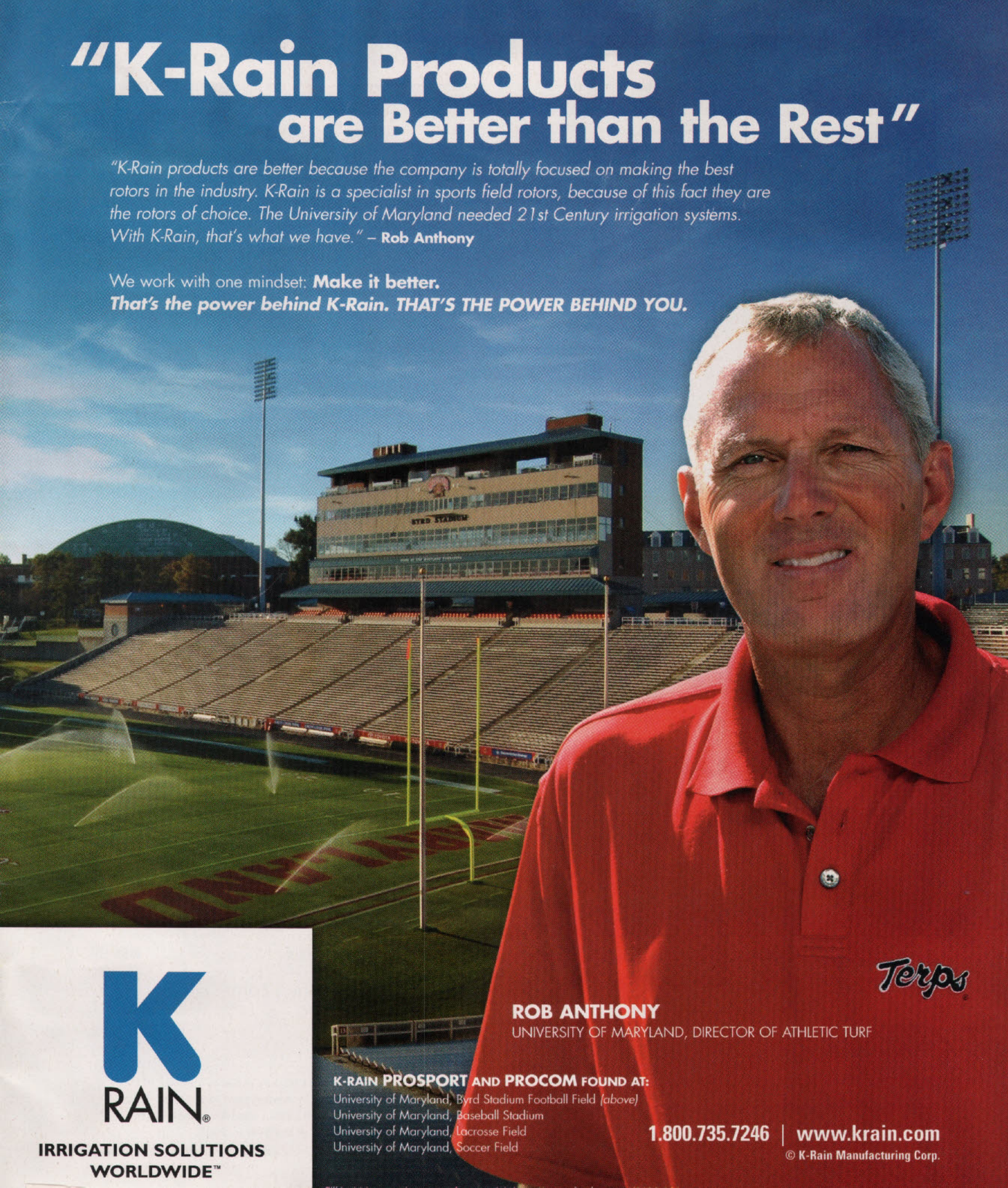
JOHN DEERE

ASSURED CERTIFIED PRE-OWNED

"K-Rain Products are Better than the Rest"

"K-Rain products are better because the company is totally focused on making the best rotors in the industry. K-Rain is a specialist in sports field rotors, because of this fact they are the rotors of choice. The University of Maryland needed 21st Century irrigation systems. With K-Rain, that's what we have." – Rob Anthony

We work with one mindset: **Make it better.**
That's the power behind K-Rain. THAT'S THE POWER BEHIND YOU.



K
RAIN®

**IRRIGATION SOLUTIONS
WORLDWIDE™**

ROB ANTHONY

UNIVERSITY OF MARYLAND, DIRECTOR OF ATHLETIC TURF

K-RAIN PROSPORT AND PROCOM FOUND AT:

University of Maryland, Byrd Stadium Football Field (above)
University of Maryland, Baseball Stadium
University of Maryland, Lacrosse Field
University of Maryland, Soccer Field

1.800.735.7246

www.krain.com

© K-Rain Manufacturing Corp.

8



35

FEATURES

Field Science

8 Soil amendment user's guide

Irrigation & Drainage

22 Measuring water infiltration rates

Fields of the Year

32 Lebanon Valley College sets small college bar

35 Berry, Olivet Nazarene win College Soccer Field of the Year

25th Anniversary

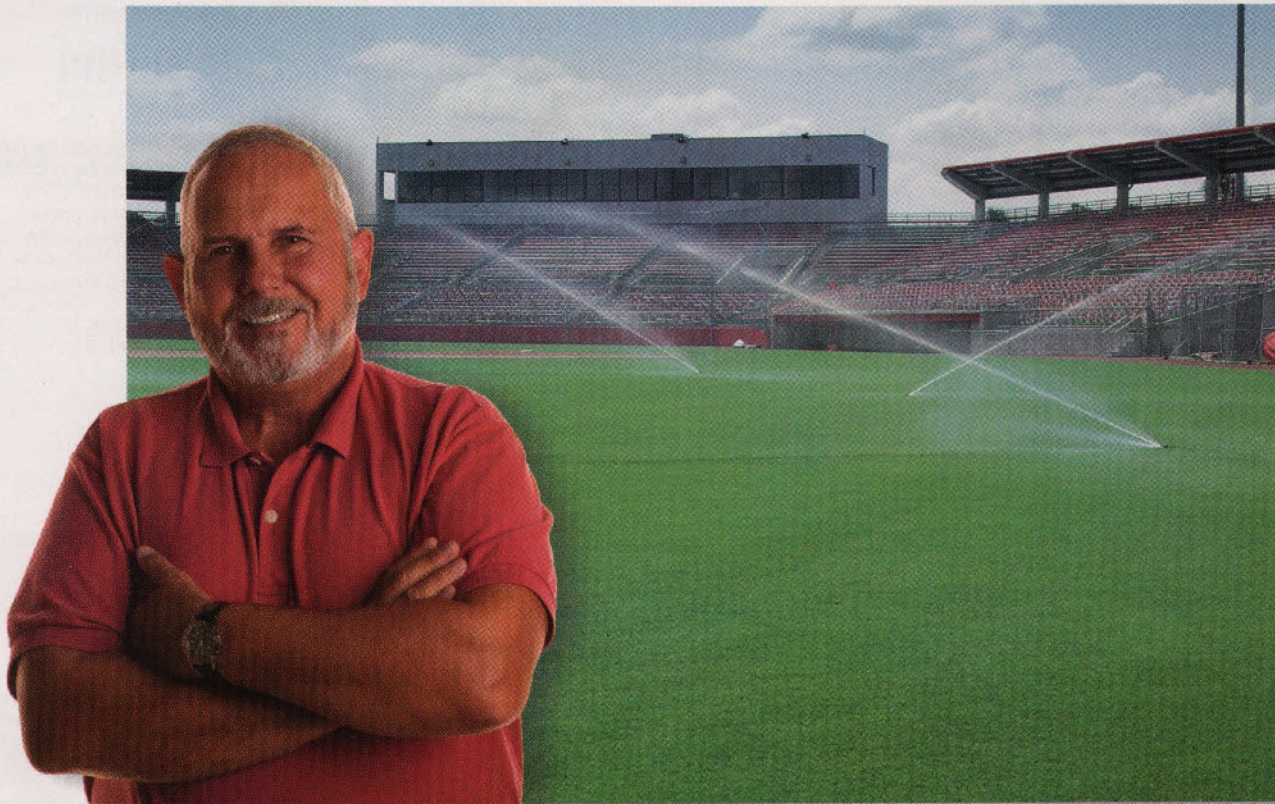
38 The 10 Commandments of environmental turf craft

DEPARTMENTS

From the Sidelines	6
STMA President's Message	7
John Mascaro's Photo Quiz	16
STMA In Action	41
STMA Chapter News	44
Marketplace	45-47
Online Education	48
Advertisers' Index	49
Reader Information Form (Green Mediator)	49
Q&A	50

On the cover: This field hockey venue is just one of the sterling fields headed by Kevin Yeiser at Lebanon Valley College in Annville, PA. STMA awarded Yeiser College Complex of the Year in 2005.

HEALTH INSURANCE FOR YOUR TURF.



It's all about the kind of coverage you have. And Hunter irrigation products deliver performance that ensures your turf is lush and healthy over every inch. As a sports turf manager, your work is on display for the world to see. That's why I use Hunter.

Hunter[®]
The Irrigation Innovators
www.HunterIndustries.com



Ask for your Free Hunter Products Catalog 1-800-733-2823

From the Sidelines

Commercial seminars often worth your time



ERIC SCHRODER
Editor

eschroder@
m2media360.com
717-805-4197
P.O. Box 280,
Dauphin, PA 17018

One of the fun parts of my job is getting “on the ground” at some of America’s great sporting venues, usually due to a commercially sponsored event. Sometimes I even get some special treatment like a few years ago at the then-new Lincoln Financial Field in Philadelphia. When the group toured the stadium, I instead joined Eagles’ turf manager Tony Leonard to visit the working innards of “The Linc.” (I’m like those faux VIPs in the car insurance ads.) This past summer the folks at Bayer Environmental Science sponsored a “Southern Sports Turf” in Charlotte at Bank of America Stadium, home of the NFL Panthers. (Quick trivia: what was the original name of this stadium?*) We spent some time both on the stadium field (Voyager hybrid bermudagrass, which Panthers’ head groundskeeper Tom Vaughan says has held up well over 3 years with resodding needed only in the east corner, where it freezes in winter), and the nearby practice fields (Tifway 419, called a “workhorse” grass by Vaughan). The 33-acre facility that Vaughan maintains along with right-hand man Adam White also features a Prestige infill synthetic surface.

“We try to keep the same cultural practices for the game field and our practice fields but of course the practice fields get a lot more use,” Vaughan told about 40 sports turf managers who attended the session. Vaughan’s been head guy for 5 years after 3 years as assistant groundskeeper. “We killed our ryegrass on the practice field later than usual this year, the third week of June,” Vaughan told the gathering. “We verticut every May and use a 50% controlled release nitrogen, custom-blended product after that about every two weeks. And we use Primo, lots of it, from March until mid-June.”

Before the team arrives from training camp, Vaughan mows at 1/2 inch “to tighten up the turf” then as the season approaches he ups that to 3/4 inch. After overseeding with ryegrass in early September, he goes up to 7/8 inch. The fields are aerified two or three times a year, including one “drill & fill” treatment to help drainage.

Before the tour, this free event included presentations by Drs. Fred Yelverton, Grady Miller and research specialist Casey Reynolds, all from North Carolina State, on issues such as transition management of bermudagrass sports turf and traffic tolerance.

Next time you get an invite to one of these commercially sponsored events, I encourage you to accept. Sure, the hosts want to sell you something but most often they also offer great information just for showing up—advice for no price.

*Ericsson Stadium—are those naming rights really worth it?

SportsTurf

760 Market Street, Suite 432
San Francisco, CA 94102
Phone 415-839-5060
Fax 415-398-3511
www.greenmediaonline.com

The Official Publication Of The Sports Turf
Managers Association

SportsTurf
MANAGERS ASSOCIATION

PRESIDENT Mike Trigg, CSFM
PAST PRESIDENT Bob Campbell, CSFM
PRESIDENT ELECT Mike Andresen, CSFM
COMMERCIAL V.P. Dale Getz, CSFM
SECRETARY Abby McNeal, CSFM
TREASURER Chris Calcaterra, CSFM
STMA BOARD MEMBERS Tra Dubois,
Darian Daily, Dr. Dave Minner,
Lance Tibbetts, CSFM, George C. Trivett, CSFM,
Jay Warnick, CSFM
CHIEF EXECUTIVE OFFICER Kim Heck

STMA Office

805 New Hampshire Suite E
Lawrence, Ks 66044
Phone 800-323-3875 Fax 800-366-0391
Email stmainfo@sportsturfmanager.com
www.sportsturfmanager.org

Editorial

GROUP PUBLISHER Steve Brackett
EDITOR Eric Schroder
ART DIRECTOR Mira Coburn
PRODUCTION MANAGER Sutton Annas
EDITORIAL DIRECTOR Richard Brandes

STMA Editorial Communications Committee

Mike Andresen, CSFM
Chris Calcaterra, CSFM
Tra DuBois, Jeff Fowler
Tom Gmelch, Carl Larson
Dr. Dave Minner, Larry Rhodes, CSFM
Jay Warnick, CSFM



SportsTurf (ISSN 1061-687X) (USPS 000-292) (Reg. U.S. Pat. & T.M. Off.) is published monthly by M2MEDIA360, a Bev-Al Communications company at 760 Market Street, Suite 432, San Francisco, CA 94102. POSTMASTER: Send address changes to Sportsturf, P.O. Box 2120, Skokie IL 60076-7820. For subscription information and requests, call Subscription Services at (847) 763-9565. Subscription rates: 1 year, \$40 US & Poss.; 2 years, \$65 US & Poss.; 1 year, \$65 Canada/Foreign Surface, 1 year, \$130 Airmail. All subscriptions are payable in advance in US funds. Send payments to Sportsturf, P.O. Box 2120, Skokie, IL 60076-7820. Phone: (847) 763-9565. Fax: (847) 763-9569. Single copies or back issues, \$6 each US/Canada; \$9 Foreign. Periodicals postage paid at San Francisco, CA and additional mailing offices. COPYRIGHT 2006, SportsTurf. Material may not be reproduced or photocopied in any form without the written permission of the publisher.

BPA Member of BPA Worldwide.

President's Message

Exercise your membership right - vote!

M2MEDIA360

PRESIDENT/CEO Marion Minor
DIRECTOR OF FINANCE Gerald Winkel
CORPORATE DIRECTOR OF CIRCULATION
Joanne Juda-Prainito
PRODUCTION DIRECTOR Mary Jo Tomei
DIRECT MAIL LIST SALES
Cheryl Naughton 770-995-4964
cnaughton@m2media360.com

Reader Service Services

DIRECTOR OF READER SERVICE
Joanne Juda-Prainito
Readerservice@m2media360.com

SUBSCRIPTION SERVICES

Phone 847-763-9565 Fax 847-763-9569

REPRINTS

Cheryl Naughton, 770-995-4964,
cnaughton@m2media360.com

Advertising Sales Representatives

AK, CO, HI, ID, MT, OR, WA, WY, Alberta,
British Columbia and Saskatchewan.

Steven Brackett

3906 Tecoma Dr.
Crystal Lake, IL 60012
815-459-5189; 815-459-5805 (fax)
sbrackett@m2media360.com

CT, DE, IN, KY, MA, MD, ME, MI, NH, NJ, NY,
OH, PA, RI, VA, VT, WV, New Brunswick,
Nova Scotia, Ontario, Quebec and Europe.

Paul Garris

35 Greenbriar
Aurora, OH 44202
330-562-2512; 330-562-3512 (fax)
pgarris@m2media360.com

United States: AL, AR, AZ, CA, FL,
GA, LA, NC, NM, NV, OK, SC,
TN, TX, UT and Mexico

Deanna Morgan

2095 Exeter Road, #80-336
Germantown, TN 38138
901-759-1241; 901-624-0333 (fax)
dmorgan@m2media360.com

IA, IL, KS, MN, MO, ND, NE,
SD, WI and Manitoba

Colleen Murphy

1326 N. Illinois Ave.
Arlington Heights, IL 60004
847-259-2835; 847-259-2836 (fax)
cmmurphy88@comcast.net

Classified Advertising Sales

Tonya Przybylski

630-679-2061; 630-679-2062 (fax)
tpriz@m2media360.com

PUBLISHER'S NOTICE: We Assume No Responsibility For The
Validity Of Claims In Connection With Items Appearing In Sportsturf.
Reader Service Numbers Are Given To Facilitate Further Inquiry.
Commercial Product Names Are Used For The Convenience Of The
Reader. Mention Of A Commercial Product Does Not Imply
Endorsement By Sportsturf Or M2MEDIA360, Or Preference Over
Similar Products Not Mentioned.



MIKE TRIGG
CSFM

mtrigg@
waukeganparks.org

Next month you will be receiving an election packet from STMA that requires some very important action on your part: casting your ballot.

The association is proposing Bylaws changes that are recommended by the Membership Committee to provide more opportunity for the association to grow. First, the sports turf manager category has been clearly defined so that it does not matter who your employer is, if you do the work of a sports turf manager, you will be in this category. That was not very clear previously, especially for those sports turf managers who work for a company.

Secondly, we have created a category for multiple sports turf managers from the same facility: Sports Turf Manager Associate. The first sports turf manager from the facility will pay full dues, the other managers from that facility will have the same voting rights and privileges, but will pay a discounted rate. Lastly, we are adding a new category so that those who work on sports fields, but not as their primary profession, (e.g., a coach, a volunteer, an athletic director), can join STMA and learn from us.

I encourage you to go to the Members-Only section of the website (www.sportsturfmanager.org) and click on Bylaws. You will see the previous Bylaws, which were ratified by the membership in 2003, and the proposed Bylaws. Your Bylaws Committee, headed by Chairman Ken Mrock, has worked tirelessly to make certain the Bylaws appropriately reflect our membership and provide a good framework to guide our association. I thank Ken and Bylaws Committee members Mike Boekholder, Dale Getz, CSFM, Carol Gundlach, CSFM, Ross Kurcab, CSFM, Richard Miller, Mary Owen, Scott Pippen, Jimmy Rodgers, CSFM, David Rulli, David Schlotthauer, John Stier, Ph.D., N. Grove Teates, Jr., Jay Warnick, CSFM, and Steve Wightman for their dedication.

In addition to voting on these proposed revisions, you will also receive in your packet the slate of candidates for the 2007 STMA Board of Directors. As you read their biographical sketches, I'm sure that you will agree that the Nominating Committee has brought forth well-qualified candidates.

Please take the time to cast your vote. For your convenience, our Bylaws allow you to return your ballot by mail, e-mail, or fax. Be sure to follow the instructions on the ballot so that your vote is valid and can be counted.

Thank you for your participation in this very important governance process.

Mike Trigg



Soil amendment user's guide

By Dr. H.T. Wilkinson

Soil amendments can be used very effectively to support the turf of a sports field or create a quality sports surface. Understanding soil amendments and how to use them properly will ensure your sports field is the best that it can be.

Keep your priorities in order. The field surface is most important because that is where the game is played. The ground under the field is important, but only because it supports and maintains a consis-

tent surface. Therefore, all questions regarding how to build, renovate or maintain a sports field should revolve around the sport the field is to be used for. This includes soil amendments!

Soil amendments can be used in a number of ways to improve a sports field. But all soil amendments do not impart the same effect. Some amendments improve drainage and aeration, some improve soil water management, some improve surface compaction, and still others can affect fertilizer availability and quality of turf. For surfaces that do not involve turf, like the skinned areas of baseball or softball fields, the



PROmound



P A C K I N G
C L A Y

building **BETTER**
PITCHERSmounds

No baseball field is complete without a properly installed pitcher's mound and batter's boxes. Pro's Choice sports field products has provided easy step by step instructions on how to build and maintain the areas that make up the pitcher's mound and batter's boxes. Visit our online educational seminar to learn how Pro Mound packing clay can enhance your field and make your baseball field one of legendary status.

online seminar web address:

<http://info.hotims.com/9931-304>



800.648.1166

www.proschoice1.com

physical properties of soil amendments are extremely important.

Improper use of soil amendments can ruin both the quality of your field and athletic performance. Some soil amendments that have been used are just bad ideas. Others are very effective when used properly, but when over-used, they are bad, too. Remember, a soil amendment will only modify (usually slightly) the properties of your soil, so you must understand these basic facts:

1. For what sport and how intensely will the field be used? There are no specific guidelines for matching the sport and intensity of use with the best type of field. Most of what is known in this regard has come from trial and error. All natural fields have limits when it comes to sustaining a consistent playing surface under inclement weather and/or intensive use. Soil amendments can extend the use of a field, but they cannot prevent failure under extreme conditions.

2. What soil do you have? You must know what you have whether you use amendments or not. Soils are characterized in a number of ways, but here is a brief list that will help you: What is the texture of your soil? How much organic matter does your soil have? How deep is the top layer of your soil? How fast will water flow into your soil? How dense is your soil?

Having answers to these five questions can help you to predict a soil's drainage, compaction potential, and turf performance. There are a number of ways to answer these questions, including laboratory analysis, consultation with a soil expert, or by using your eyes, hands, and experience. Laboratories and experts are going to give you the most comprehensive information. Talk to a soil expert once you have your test results, because it is in the evaluation of the results where you really get to understand your soil. If you have been in the business awhile or are working with an

TURFACE ATHLETICS™

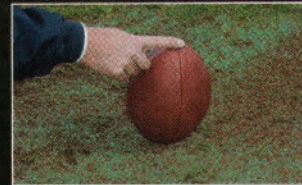
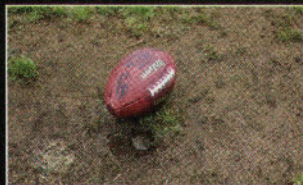


BETTER FOOTING COMES IN A BAG

QUICKLY TURN A SLIPPERY, MUDDY MESS INTO A SAFE PLAYING SURFACE

Introducing new Field & Fairway™ Emerald. It's the first soil conditioner combining Turface's water absorption and compaction-fighting properties with a rich, green color that covers up rough spots on your field. Field & Fairway instantly eliminates mud and standing water, making fields safer and

more playable for athletes. Pour it on the field right after a downpour—or use it as part of your regular aeration and topdressing program. And Field & Fairway permanently improves any field, conditioning the soil to prevent further wear and tear. Call Profile to get this great new product on your field today!



Call 1-800-207-6457

baseball • softball • soccer • football

www.turface.com