

Pioneer
ATHLETICS

Paint Like It's 2012

**Brighter, "Greener," Better Performing Breakthrough Paints.
Now available in a variety of environmentally-friendly colors.**



ingredients matter.



Get the longest-lasting lines, brightest whites and most vivid colors with the world's first VOC-free, EPA-recognized field marking paints.

Visit us at the STMA
Convention - Booth #421

800-877-1500

pioneerathletics.com/st1



DIAMOND PRO®

PROFESSIONAL GROUNDSKEEPING PRODUCTS



RED INFIELD CONDITIONER

50 lb. Bags / 40 Bags Per Pallet
Bulk Delivery (10, 15 and 24 tons)

ALSO AVAILABLE

Professional Vitrified
Infield Conditioner
Gray Infield Conditioner
Calcined Clay Top Dressing
Calcined Clay Professional
Calcined Clay Drying Agent
Home Plate / Mound Clay
Professional Mound Clay
Athletic Field Marking Dust
Clay Bricks
Green Divot Sand



STAY CONNECTED

TO EVERYTHING DIAMOND PRO



800.228.2987
diamondpro.com

AVAILABLE IN
BULK NATIONWIDE

24 TONS

PLEASE VISIT US IN LONG BEACH, CA

stma BOOTH 427



SportsTurf Contents

JANUARY 2012 | VOLUME 28 | NUMBER 1

Features

2011 Green Media's Most Influential People

8 Lynda Wightman and Dr. Dave Minner are honored

Field Science

- 12** Turfgrass water conservation essentials:
modified rootzones & current water management technologies
- 16** Polo fields: uniquely challenging turf management
- 20** Considerations in infield construction and renovation
- 24** Using base saturation ratio versus sufficiency levels
of available nutrients

Facilities & Operations

- 32** Gaining input into renovation & construction projects
- 36** Guide to synthetic turf infill products

Irrigation & Drainage

- 38** Green field built on brownfield

STMA Field of the Year

- 40** 2011 College Baseball Field of the Year:
Taylor Stadium/Simmons Field, University of Missouri

Tools & Equipment

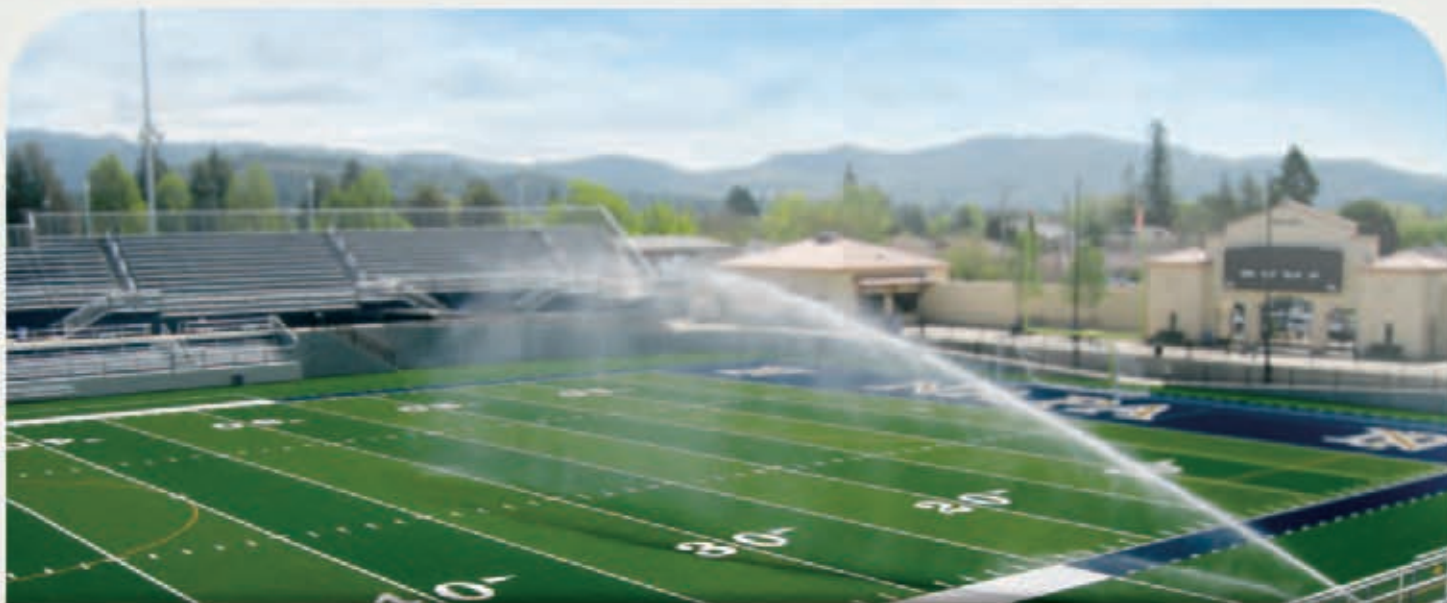
- 43** Barenbrug USA is introducing a new Kentucky bluegrass variety

Departments

- 6** From the Sidelines
- 7** STMA President's Message
- 17** John Mascaro's Photo Quiz
- 46** STMA in Action
- 47** STMA Chapter Contacts
- 48** Marketplace
- 49** Advertisers' Index
- 50** Q&A



On the cover: The Sports Turf Managers Association's 2011 College Baseball Field of the Year Award went to the University of Missouri's Simmons Field, managed by Josh McPherson, CSFM, with crew members Jerry Cummings and Brandon Coleman.



INTRODUCING THE HUNTER ST SYSTEM:

A fully integrated solution for cleaning and cooling synthetic fields.

Simple to specify, straightforward to install, and easy to maintain for the end user, Hunter's new ST System is the only cost-effective, integrated solution built to meet and exceed the unique cooling and cleaning needs of synthetic turf sports fields.

ST SYSTEM ROTORS



ST-1600BR
160' Riser Mount Rotor



ST-90, STG-900
115' Pop-up Rotors



ST-1600B
160' Pop-up Rotor

ST SYSTEM ACCESSORIES



ST Enclosures



ST Valves



ST Swing Joints

VISIT US AT BOOTH 622 800-733-2823 www.hunterindustries.com/ST

Hunter®
THE IRRIGATION INNOVATORS

From the Sidelines



Eric Schroder
Editor

eschroder@m2media360.com

717-805-4197

Tooting our own horn

I HAVE WRITTEN more than 120 of these columns since being named editor of *SportsTurf* in 2001 and have never covered a very important topic—the magazine itself.

Let's start with our editorial philosophy: Ultimately our editorial goal is found in the stadiums, on the ball fields and around athletic facilities as we strive to assist our readers in producing safe and aesthetically pleasing playing surfaces for athletes of all ages and skill levels. As the single national voice of the Sports Turf Managers Association, we represent and strengthen the recognized leaders in the sports turf industry. By featuring the best on-the-field turf managers, university turfgrass researchers, and other experts in the sports turf industry as our editorial contributors, *SportsTurf* presents the latest information available to help our readers complete their responsibilities and improve their fields. Knowing our audience and the issues that affect their business lives, on and off the field, means we publish information useful to both management as well as field crews.

Our content is driven by several forces, most notably the contributions of the STMA's Editorial Committee and Board of Directors. We also rely on the expertise of STMA Commercial members who in the course of doing business often encounter interesting circumstances, and often are the first to spot trends or new ways of tackling problems because they know and visit so many sports turf managers.

But often the best ideas for articles come from you, the reader. No one understands better the challenges you face daily, of course, so I invite you to call or email me any time there's a topic you would like us to address or perhaps write about yourself. No author gets more respect from our readers than one of their peers.

Also we are blessed to have two of the most renowned sports turfgrass educators in the country writing the "Q&A" column that appears opposite the back inside cover each issue, Dr. Dave Minner of Iowa State and Dr. Grady Miller of North Carolina State. And let's not forget the highly popular feature, "Photo Quiz by John Mascaro," that I'm told often is the first page folks turn to when a new issue arrives (I'm sure they all just forget to mention this page).

We pride ourselves on the look of this magazine as well as its content. Credit for this professional presentation goes to our art director, Brian Snook.

I would be remiss if I didn't give a shout out as well to our digital products, including the news and features available on www.sportsturfonline.com, our electronic newsletter, *SportsTurf Insider*, which you can receive weekly for free by signing up on our website, and our mobile access product (see www.sportsturfonline.com/mobile4).

Finally, I would like to introduce our new advertising sales representative, Leslie Palmer, who began working with us at the end of last year. Leslie lives in the Detroit area and can be reached at 248-530-0300 ex. 1402 or l.palmer@jamesgelliott.com.

SportsTurf

1030 W. Higgins Road
Suite 230
Park Ridge, IL 60068
Phone 847-720-5600
Fax 847-720-5601

The Official Publication Of The Sports Turf
Managers Association

SportsTurf
MANAGERS ASSOCIATION

PRESIDENT: Troy Smith, CSFM
IMMEDIATE PAST PRESIDENT: Chris Calcaterra, M.Ed., CSFM, CPRP
PRESIDENT-ELECT: James Michael Goatley, Jr., PhD
SECRETARY/TREASURER: Martin Kaufman, CSFM
VICE PRESIDENT-COMMERCIAL: Chad Price, CSFM
PROFESSIONAL FACILITIES: Allen Johnson, CSFM
HIGHER EDUCATION: Ron Hostick, CSFM
K-12: Mike Tarantino
PARKS & RECREATION: David Pinsonneault, CSFM, CPRP
ACADEMIC: Pamela Sherratt
COMMERCIAL: Rene Asprion
AT LARGE: Jeff Fowler,
AT LARGE: Jeff Salmond, 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@STMA.org
www.STMA.org

Editorial
EXECUTIVE VICE PRESIDENT Charles Forman
EDITOR Eric Schroder
TECHNICAL EDITOR Dr. James Brosnan
ART DIRECTOR Brian Snook
PRODUCTION MANAGER Karen Kalinyak
EDITORIAL DIRECTOR Richard Brandes

STMA Editorial Communications Committee

Jim Cornelius, CSFM, Jason Henderson, PhD, Paul Hollis, Clayton Hubbs, Joshua McPherson, CSFM, Brad Park, David Schlotthauer, & Grant Spear



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 1030 W. Higgins Road, Suite 230, Park Ridge, IL 60068. **POSTMASTER:** Send address changes to Sportsturf, PO Box 4290, Port Jervis, NY 12771. For subscription information and requests, call Subscription Services at (845) 856-2229. Subscription rates: 1 year, \$40 US & Poss.; 2 years, \$65 US & Poss.; 1 year, \$65 Canada/Foreign Surface, 1 year, \$130 Air-mail. All subscriptions are payable in advance in US funds. Send payments to Sportsturf, PO Box 4290, Port Jervis, NY 12771. Phone: (845) 856-2229. Fax: (845) 856-5822. Single copies or back issues, \$8 each US/Canada; \$12 Foreign. Periodicals postage paid at Park Ridge, IL and additional mailing offices. COPYRIGHT 2011, 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

Troy Smith,
CSFM

troy.smith@broncos.nfl.net



M2MEDIA360

PRESIDENT/CEO

Marion Minor

VP OF FINANCE AND OPERATIONS

Gerald Winkel

VP OF CIRCULATION AND

COLLATERAL SALES

Joanne Juda-Prainito

PRODUCTION & OPERATIONS DIRECTOR

Mary Jo Tomei

DIRECT MAIL LIST SALES

Cheryl Naughton 678-292-6054

cnaughton@m2media360.com

SUBSCRIPTION SERVICES

Phone 845-856-2229 Fax 845-856-5822

REPRINTS

Cheryl Naughton 678-292-6054

cnaughton@m2media360.com

Account Representatives:

Leslie Palmer

16267 W. 14 Mile Rd., Ste 202

Beverly Hills, MI 48025

Ph: 248-530-0300,

ext. 1402

lpalmer@m2media360.com

Bruce Loria

626 Wilshire Blvd., Ste 500

Los Angeles, CA 90017 • Ph: 213-596-7226

bloria@m2media360.com

Classified Sales/Marketplace:

Glenn Datz

Phone: 213-596-7220

Fax: 213-624-0997

gdatz@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.

Handing over the gavel

AS I END MY PRESIDENCY of the STMA, there are many people I would like to thank in helping me during the year. First, thank you to the STMA Board of Directors. This group of professionals works diligently and focused throughout the year to govern the association as well as represent each of our categories. Second, I have relied on the guidance and enlightenment of the Past President, Chris Calcaterra, CSFM. Thank you, Chris. Third, a very sincere 'thank you' to our committee volunteers. Their work has been instrumental in creating and advancing the programs of STMA.

A huge 'thank you' goes to you, the members, for allowing me the opportunity to lead this association. This year will be something that I will never forget. I realize that I have received so much more than I have given. Being President has made me a better manager of people and time. More importantly, I have met so many wonderful, passionate members from all over the world who care deeply about the STMA's success. It is these connections, old and new, that I truly value, and I equate this profession to a family. We rely on each other's experience and advice. We learn from each other. We encourage each other. When I became a member of STMA in 1994, I remember feeling a sense of belonging. I hope that our newer members feel the same way. Back then, networking and learning from educators and other professionals was the big selling point to me and hooked me. As our organization has matured and grown, these original ideals are still in place and will always be the foundation of STMA. Just as technology has certainly changed our profession and improved our daily jobs, networking and education remain core to our individual and collective success.

I encourage all of you to continue to support the STMA, both locally and nationally by renewing your membership. I know that my involvement in our Colorado Chapter has made me a better sports turf manager. Supporting your local chapter improves the entire profession. Also, I hope that you will make it a priority to financially support our SAFE Foundation in its endeavors to improve fields for all of our end-users through education, scholarship and research.

I'd like to recognize our CEO, Kim Heck, and her staff who keep our association running smoothly on a day-to-day basis from our headquarters. All of our members should feel reassured in knowing that our association is in good hands with our staff.

And finally, I would like to offer my best wishes to incoming STMA President, Dr. Mike Goatley. I am certain that with our newly updated strategic plan in place and newly elected board of directors that Dr. Goatley will do a great job on your behalf.

Thank you all again and best wishes for the upcoming year

Wightman, Minner lead 2011 selections for "Most Influential People in the Green Industry"



Green Media, a division of M2MEDIA360, recently named their "Most Influential People in the Green Industry" for 2011. The professionals selected for this honor exemplify commitment to the Green Industry, and have exhibited a widespread influence on their peers. From the sports turf industry, Lynda Wightman of Hunter Industries and Dr. Dave Minner of Iowa State were chosen. Dr. Minner is on sabbatical this winter so we will cover his win later.

LYNDA WIGHTMAN, Hunter Industries

Lynda Wightman, a strong proponent of education and supporter of STMA, is one of the most trusted and influential leaders in the sports turf industry.

Her nomination read, in part, "Lynda is very deserving of this distinction. She has served on numerous turf and irrigation boards. She devotes countless hours towards training and education the turf professionals of the future. For the STMA she has been the driving force behind the student challenge development and has assisted with other green industry student challenges."

SportsTurf: You were nominated by your peers as one of the most influential people in the green industry. How do you feel you that you influence other industry professionals?

Wightman: I am honored and humbled to receive this recognition. I have never really thought of myself as an "influencer," but have always strived to help others make good decisions and feel good about their failures and accomplishments. A favorite quote of mine is by Maya Angelou, "I've learned that people will forget what you said, people will forget what you did, but people will never forget how you made

them feel". I try to remind myself of this on a daily basis.

ST: What do you feel has been your biggest contribution to the green industry so far? And what do you see as your role in the future of the industry?

Wightman: By working for such a fantastic company, Hunter Industries, I have been able to develop a network of friends who reach out to me for education, training, industry knowledge and reliable collaboration. Water conservation/management (irrigation) is such an important topic, and it's not going away, so we have to learn every technique, program and process occurring today and in the future in order to be stewards of this valuable resource. I hope to continue representing Hunter, and our industry, in every effort to support our entire customer base in any way possible; especially when it comes to efficient and knowledgeable irrigation practices.

ST: Who has influenced you both personally and professionally?

Wightman: My mother, of course. She taught me to believe in myself and to always

2011 Most Influential People in Green Industry

- **Dan Ariens**, president and CEO, Ariens Company
- **Mark Chisholm**, arborist, climbing champion, instructor and industry spokesperson, Aspen Tree Expert Co., Inc.
- **Stephen Cieslewicz**, president and chief consultant, CN Utility Consulting
- **Tom Delaney**, director of government affairs, Professional Landcare Network (PLANET)
- **Bill Harley**, immediate past president and CEO, Outdoor Power Equipment Institute
- **Kris Kiser**, president and CEO, Outdoor Power Equipment Institute
- **David Minner**, Ph.D., professor, Department of Horticulture, Iowa State University
- **Lynda Wightman**, industry relations manager, Hunter Industries

give to others no matter what the situation might be. Chuck Huston hired me 27 years ago, to work for Hunter and was my mentor for many years to follow. Even after he retired, he gave me advice and helped me develop my personal and professional skills. Richard Hunter has allowed me to work with great people; make mistakes and learn from them; mentor others in our company, and be a part of the most fantastic team in the world.

ST: Tell us something about yourself outside of work (hobby, sport or other personal interest) that influences your approach in your professional career.

Wightman: Ha! Anyone who knows me, would say that I don't have much of a life outside of irrigation and Hunter, but I am a very lucky woman to live in Missoula, MT (eat your heart out!) and be close to family. I love to fly fish, garden, preserve and cook the goods I grow, and share everything with everybody I can! I invite industry friends to join me in the relaxation of being on the water, tossing a line, and not talking about sprinklers, water conservation and jobs!! By

doing this, we all go away with a refreshed mind and soul, ready to tackle our daily challenges once again.

ST: What dreams do you have for the industry? What change(s) are necessary to make those dreams a reality?

Wightman: I realize that many things are changing, especially with the way we do business, but we have to remember the importance of relationships and partnerships with the people we work with. At Hunter, our Mission and Values are based upon customer satisfaction, innovation, family and citizenship (communities, sustainability, and environmental footprint)

I would like to think that other companies would look to model their own core values along these same lines; for the betterment of their employees and customers.

ST: What advice do you have for green industry professionals who want to become influential leaders themselves?

Wightman: Strive for the best in all that is tried. Don't be afraid to fail; get up and try it again until it is right! Share your fail-

ures and successes with others; maybe they are in the same shoes as you. Be happy with yourself and your job; if you're not, then find out why and try to make the appropriate changes. Another quote that I like is (anonymous), "The happiest of people don't necessarily have the best of everything, they just make the most of everything that comes their way."

ST: If you could nominate another person as the green industry's most influential, who would that be, and why?

Wightman: Michael Andresen, CSFM. Mike is Past President of STMA and has influenced every sports turf manager I know, in some way or another. His job at ISU has given him the opportunity to implement a student working program, which has always turned into a true mentor process for these young people. He is understanding, caring, and supportive to anyone he comes in contact with. If he is not knowledgeable about something, he dives in to learn about it and comes out on top. Oh yeah, and he loves to fly fish and be in the mountains! ■

WE'VE GOT YOU COVERED

EITHER WAY, YOU'LL WIN WITH TURFCO® SPORTSFIELD TOPDRESSERS



WIDESPIN CR-7

- ▶ Broadcast up to 40 feet for maximum productivity
- ▶ Patented WideSpin™ technology gives you the perfect spread with the least adjustments from light to heavy
- ▶ Spinner angle adjusts up and down for maximum versatility



METE-R-MATIC XL

- ▶ Just hook up and go—ground-drive system means no hydraulics or speed calibration
- ▶ 60" drop spreader with extra large hopper capacity for less reloading
- ▶ Patented Chevron® belt ensures uniform application of all types of materials, regardless of moisture content



WWW.TURFCO.COM

Demo TURFCO on your field — call 800-679-8201 today.

TURFCO MANUFACTURING, INC. | 1655 101st Ave. NE | Minneapolis, MN 55449-4420 | TOLL FREE 800-679-8201

FIELD SANITATION JUST GOT A WHOLE LOT EASIER

The day has arrived when field safety can be achieved without the use of harmful chemicals and scarce water resources. Facility Managers can now address the risks of MRSA and HIV on all sports surfaces and do so in the most cost effective manner possible. Designed by GreensGroomer WorldWide®, the GreenZapr® uses the power of UVC technology to destroy harmful germs inherent in sports turf surfaces.

DELIVERS 99.9% KILL FACTOR SAFE & EASY TO USE RELIABLE ON-BOARD POWER

The high cost of current sanitation techniques makes it virtually impossible to address needs on a frequent or immediate needs basis. The GreenZapr makes pre or post event sanitation possible and rapidly pays for itself by avoiding high cost, repetitive chemical treatments. Over the long haul, the fiscal argument is clear — not to mention that ultimate safety is addressed with such a simple, proven solution.



GreensGroomer®
WORLDWIDE

For product inquiries and dealer demos visit GreensGroomer.com or
contact us toll free - 888-298-8852