

**FIELD OF THE YEAR:** Stadium Field, Maryland SoccerPlex, Boyds, MD

SPORTSFIELD AND FACILITIES

MANAGEMENT

November 2015

# SportsTurf

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

## STMA 27<sup>TH</sup> CONFERENCE & EXHIBITION

January 19-22, 2016 San Diego

**ALSO INSIDE**

### PROFESSIONAL development tips



OFFICIAL PUBLICATION OF THE SPORTS TURF MANAGERS ASSOCIATION



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# STARTING LINEUP

November 2015 | Volume 31 | Number 11

## FEATURES

### 27th Sports Turf Managers Association Conference and Exhibition Preview

- 8** Conference Program: Seminars, Education Sessions & Other Activities
- 10** Schedule-At-A-Glance
- 26** List of STMA Commercial Members and others exhibiting in San Diego

### Facilities & Operations

- 36** Professional development tips for turf managers
- 38** Practices to promote a positive image

### Field of the Year

- 40** Professional Soccer: Stadium Field, Maryland SoccerPlex, Boyds, MD

### Tools & Equipment

- 44** New products you can see at STMA Exhibition in San Diego



## DEPARTMENTS

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



### On the cover:

The Sports Turf Managers Association's 27th Annual Conference and Exhibition will be held in San Diego January 19-23, 2016. For information on how to register or exhibit, please see [www.stma.org](http://www.stma.org) or call 800-323-3875.



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# PROTECT YOURSELF OUTSIDE



**Eric Schroder**  
**Editorial Director**  
 Eschroder@epgmediallc.com  
 717-805-4197

**Y**eah, we all know, use sunscreen, blah, blah, blah. But we're here to remind you yet again anyway.

Supervisors, looking out for your people in this regard is part of your job; recognize the environmental and workplace conditions that may be dangerous and learn the signs and symptoms of heat or cold-induced illnesses and injuries and what to do to help.



Basal cell tumors can take on many forms. From [webmd.com](http://webmd.com)

## COLD

Encourage workers to wear proper clothing for cold, wet and windy conditions, including layers that can be adjusted to changing conditions. Be sure workers in extreme conditions take a frequent short break in warm dry shelters to allow their bodies to warm up. Try to schedule work for the warmest part of the day.

Remember, workers face increased risks when they take certain medications, are in poor physical condition or suffer from illnesses such as diabetes, hypertension or cardiovascular disease.

## SUN

Sun is the primary cause of skin cancer, and that means that those who work

outside most of the time are at high risk for this disease. Here are some prevention guidelines:

A shady spot should be available for lunch and coffee breaks.

If possible, do tasks requiring outdoor work before 10 am and after 4 pm, to avoid the hours of greatest sun intensity. I know this may be laughable to many readers!

Wear protective clothing and cover the skin. Avoid clothes that you can see light through. If light is getting through, the ultra-violet radiation is getting through as well.

If shorts are worn, a pair that approaches the knee will offer more protection than a shorter pair. A collar will protect the skin on the back of the neck.

Wear a hat and sunglasses (that filter out UV rays); broad-brimmed hats are best. The brim should be at least 3 inches wide. If a lot of bending is required, have a flap on the back of the hat, which will keep the sun off the back of the neck.

## SUNSCREEN

Use an SPF 15 or higher sunscreen before going outdoors. Use a water-resistant sunscreen when working with water or when perspiring. Choose a gel, stick, or lotion form of sunscreen according to personal preference; no one form is more effective than another. Reapply sunscreen every 2 hours. If sweating freely, reapply more often. Make sure the face, lips, neck, ears, arms and back of the hands are protected. Ultraviolet radiation bounces off water, sand, concrete, light-colored surfaces and snow. People who work near these areas will need to take extra care. **ST**

*Eric Schroder*

**SportsTurf**  
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## GIVE THANKS, EVEN TO THE BOSS



**Allen Johnson, CSFM.**  
johnsona@packers.com

**T**hough gratitude is a cherished trait year-round, the Thanksgiving season brings it back to front and center. If you stop to think about all the people who have helped you along the way the list can grow fairly long.

In my case I can start with my parents, Keith and Cynthia Johnson, who helped mold me into the person I am today. I have my best friend from the Army, Jeff Bleile, to thank for going to college who told me that I would be wasting potential opportunities for not going. Steve Hutchison gave me my first job in this industry and opened up the possibility for a career in sports turf. Bill Paprocki gave me sound advice when I was starting out and steered me toward Penn State's online turfgrass program. My long-time assistant, Derek Paris, has been with me almost from the beginning and has been instrumental with his keen insight into how to improve our practices. Recent additions to the crew, Bart Bartelme and Joel Hunt, each bring their own talents to make us a complete team while we've increased our workload.

For continual improvement and professional growth through the years, I'd have to thank the STMA and its members for sharing their wisdom, encouragement, and pushing me to improve each and every year.

While many of us can think of that list that has helped us along the way and the crew members who help us achieve our

daily goals, we may forget to thank someone else. Our bosses.

For it is our bosses who support our requests for resources, who listen to our pleas of frustration, value our opinion when constructing new facilities, give us encouragement when the going gets tough, and support our professional development by supporting our membership in the STMA.

If they don't do any of these things, thank them anyway and maybe you'll catch them off guard, and they will contemplate supporting you in the future.

I'd like to thank Ted Eisenreich, Paul Baniel, Russ Ball, Ted Thompson, Mike McCarthy, and Mark Murphy for supporting our department over the years. Their support of our membership and involvement with the Sports Turf Managers Association has had a direct, positive impact on helping us achieve the best possible playing surface for the Green Bay Packers.

My biggest thanks goes to my peers in this industry all across the different categories that, regardless of their position, shed their egos in a genuine effort to help us become better at what we do. I am extremely grateful for all who have invested their time forming this association and creating the culture that exists today.

This year when you turn in your invoice for your membership and registration to conference, remember to say "Thanks."

Happy Thanksgiving, everyone. 



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# STMA's 27<sup>th</sup> CONFERENCE & EXHIBITION:

## JANUARY 19-22, 2016 SAN DIEGO, CALIFORNIA

### WHAT YOU NEED TO KNOW

*Date: Jan. 19-22, 2016*

USA Today rates San Diego a 'Top 20' convention city for 2015. CVENT, a technology firm used by meeting planners around the world for booking conventions, ranks it number 4. CVENT tracks more than 5,000 cities across the country to produce its list of the top 50 convention destinations.



Host Hotel, Manchester Grant Hyatt, Rate: \$199 (valid until Dec. 15) Did you know that the hotel's average nightly rate currently is \$279? STMA negotiated this excellent low rate five years ago!

Registration Fees: \$375 Full Conference package for members (\$325 for additional members from the same facility) Fee includes all education sessions, Welcome Reception, Awards Reception and Banquet, Trade Show, Breakfasts, Annual Meeting and lunch, and Online Access to the Education Session Recordings for one year. Price increases to \$450 from Dec. 16-31, and to \$525, post-Dec. 31.

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# SCHEDULE AT A GLANCE

## Tues., Jan. 19

6:30 - 8 am	Continental Breakfast
6:30 am - 5:30 pm	Registration Open
7 am - 5 pm	Full Day Seminar-on-Wheels Tour
8:30 am - 5 pm	SAFE Golf Tournament
11 am - 12 pm	Fun Walk/Run
2:30 - 5 pm	STMA Academy - Advanced level education
3:30 - 7:30 pm	STMA Certification Exam
6 - 9 pm	SAFE Night of Bowling

## Wed., Jan. 20

7 - 8 am	Continental Breakfast
7 am - 6:30 pm	Registration Open
8 - 9:30 am	Opening General Session
9:45 am - 12 pm	Conference Education
12 - 2 pm	Break
12 - 2 pm	Women's Forum
2 - 5 pm	Conference Education
5:15 - 6:15 pm	Conference Networking Sessions
6:30 - 7 pm	First Timers' & International Attendees' Reception
7 - 10 pm	Welcome Reception

## Thurs., Jan. 21

6:45 - 7:45 am	Certification Breakfast
7 - 8 am	Continental Breakfast
7 am - 6 pm	Registration Open
8 - 10:45 am	Conference Education
11 am - 1:15 pm	Featured Speaker, Annual Meeting, Lunch
1:30 - 6 pm	SAFE Silent Auction (Trade Show Floor)
1:30 - 6:30 pm	STMA Exhibition with Dessert & Late Afternoon Reception
2 - 4:30 pm	Student Challenge
2 - 6 pm	Committee Meetings (Trade Show Floor)

## Fri., Jan. 22

7 - 8 am	Continental Breakfast
7 - 8 am	Past President's Breakfast
7 am - 12 pm	Registration Open
8 - 10 am	Conference Education
10 am - 12:30 pm	SAFE Silent Auction (Trade Show Floor)
10 am - 1 pm	STMA Exhibition with Lunch & Innovative Sessions
12 - 1 pm	Student Lunch
1:15 - 5 pm	Half-day Seminar-on-Wheels Tour
1:30 - 2:30 pm	Fun Walk/Run
1:30 - 3 pm	Conference Education
3:15 - 5 pm	Chapter Officers' Training
6:30 - 10 pm	SAFE Live Auction, STMA Reception & Awards Banquet

## Sat., Jan. 23

8 am - 12 pm	STMA Certification Exam
8 am - 1 pm	ASBA Certification Exam

## WHAT'S NEW

In addition to all of the new education sessions, here is what else is new:

### Registration Networking Area - sponsored by GreenOne Industries

Open during registration hours each day at the conference, come here to meet your colleagues, relax, enjoy a beverage, and share your stories.

### Fun Run/Walk -

*Tues., Jan. 19, 11 am and Fri., Jan. 22, 1:30 pm*

Rev up and wind down with this pre and post run/walk. It is led by chair Tom Nielsen of the Louisville Bats. Look for signage that shows the starting location.

### Combined First Timers' and International Attendee Reception

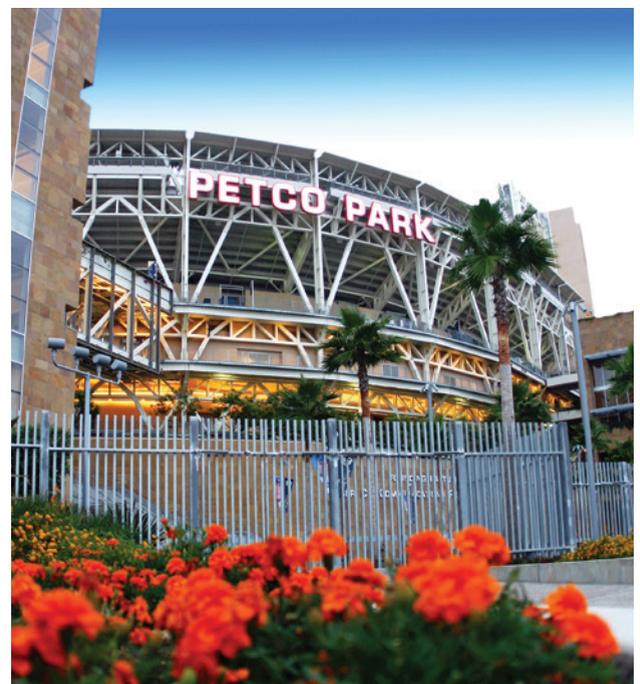
First-time attendees and our International attendees are invited to attend a special reception on Wed., Jan. 20, 6:30 pm.

### Free Electronic access to all education session recordings with a full conference registration

Perfect for crew training and viewing sessions that you were not able to attend.

### Free Customized Conference App - sponsored by Barenbrug, Graff's Turf, John Deere and World Class Athletic Surfaces

STMA has created an app that will help you plan your conference attendance, build your schedule, rate sessions, download speaker presentations, and much more. Go to [STMA.org](http://STMA.org) to download in advance of the conference.



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## WHO YOU'LL HEAR:

4 Featured Speakers



### Wednesday

**Richard Kent, Ph.D.**, University of Virginia, will speak about shoes and field surface interaction. He has worked on the NFL Foot and Ankle Committee since 2008 and chaired the Taskforce to develop the NFL's Recommended Practices for Gameday Fields.



**Daniel Russell, Ph.D.**, Penn State University, will address the physics and acoustics of baseball bats. His primary research area involves the acoustics and vibration of sports equipment, and he has provided testing and vibration consulting services for several sporting goods manufacturers.



**Joel Stitzel, Ph.D.**, Biomedical Engineering, Wake Forest School of Medicine, will discuss his current research involving crash injury and engineering biomechanics of trauma, automotive safety, and sports and military biomechanics.



### Thursday

**Timothy Gay, Ph.D.**, University of Nebraska physics professor and industry helmet consultant, will present on turf, sports, physics, and concussions.



## More Speakers You Won't Want to Miss

Academics, Practitioners and Innovative Companies

**Ryan Adams**, Iowa State University

**Matt Anderson, CSFM**, The University of Arizona

**Matthew Arms**, Spartanburg County Parks Department Tyger River Park

**Scott Bills, CSFM**, Sports Fields Solutions, LLC

**Glen Black**, GT Air Inject

**Michael Boekholder**, Philadelphia Phillies

**Jason Bowers, CSFM**, Glenstone Foundation

**Scott Boyle**, University of Tennessee

**TJ Brewer, CSFM**, Burlington Bees

**Tab Buckner**, Township of Langley Parks Dept.

**Bob Campbell, CSFM**, University of Tennessee, Retired

**Neil Cathey**, SSC Services for Education

**Nick Christians, Ph.D.**, Iowa State University

**Carole Daily**, Daily HR Solutions

**Darian Daily**, Paul Brown Stadium

**Mike D'Ascanio**, Groundskeeper Tech

**Massimiliano Del Viva, Ph.D.**, Green Lab Studio

**Samuel Doak**, Virginia Tech

**Matt Elmore, Ph.D.**, Texas A&M University

**John Fech**, University of Nebraska – Lincoln

**Amy Fouty, CSFM**, Michigan State University

**Brad S. Fresenburg, Ph.D.**, University of Missouri

**Lisa Goatley**, The Cascade Group

**Mike Goatley, Ph.D.**, Virginia Tech

**Gary Grigg**, Grigg Brothers

**Simon Gumbrill**, Stadium Grow Lighting (SGL)

**Gerald Henry, Ph.D.**, University of Georgia

**Mark Holder**, Roswell Recreation & Parks Department

**Matt Hollan**, Los Angeles Memorial Coliseum

**Bryan Hopkins, Ph.D.**, Brigham Young University

**Brandon Horvath, Ph.D.**, University of Tennessee

**Jared Hoyle, Ph.D.**, Kansas State University

**Brad Jakubowski**, Doane College

**Gordon Kaufman, III, Ph.D.**, Grigg Brothers

**Alex Kowalewski, Ph.D.**, Oregon State University

**Jason Kruse, Ph.D.**, University of Florida

**Tony Leonard**, Philadelphia Eagles

**John Mascaro**, Turf-Tec International

**Andrew McNitt, Ph.D.**, Penn State University

**Troy McQuillen**, PERFECT PLAY FIELDS and LINKS

**Grady Miller, Ph.D.**, North Carolina State University

**Justin Quetone Moss, Ph.D.**, Oklahoma State University

**Michael Munie**, MJM Services, Inc.

**Gregg Munshaw, Ph.D.**, University of Kentucky

**Jim Nedin**, Jim Nedin Consulting Services

**Mary Owen**, University of Massachusetts Amherst

**Brad Park**, Rutgers University

**Drew Pinnix**, North Carolina State University

**David Pinsonneault, CSFM, CPRP**, Town of Lexington

**Craig Potts**, Texas A&M University

**Chris Ralston**, San Juan Unified School District

**Jeff Salmond, CSFM**, University of Oklahoma

**Chrissie Segars**, Oklahoma State University

**John Sorochan, Ph.D.**, University of Tennessee

**Chase Straw**, University of Georgia

**Barry Stewart, Ph.D.**, Mississippi State University

**Adam Thoms, Ph.D.**, University of Tennessee

**John Torres**, Philadelphia Union

**Kai Umeda**, University of Arizona

**Tim Van Loo, CSFM**, Iowa State University

**Victoria Wallace**, University of Connecticut

**Clint Waltz, Ph.D.**, University of Georgia

**Rich Watson**, Sports Field Managers Association of New Jersey (SFMANJ)

**Richard H. White, Ph.D.**, Texas A&M University

**Brian Winka, CSFM**, City of Chesterfield Parks Department



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## WHAT YOU'LL LEARN:

9 Educational tracks

### Agronomic

*Tues., Jan. 19*

- Plant Soil Interactions

*Wed., Jan. 20*

- Warm-Season Turf, Cool-Season Turf... Why Not Both?
- Providing for Fertility: Products, Programming and Environmental Protection
- High Traffic and High Expectations
- Managing "The Field" Within the Field

*Thurs., Jan. 21*

- Should You Fraise Mow?
- Protecting Your Turf - Managing High Event Loads

*Fri., Jan. 22*

- Aeration / Different Types / Relation Body to Agronomy

### Pest Control

*Wed., Jan. 20*

- Inside Herbicides
- Advanced Weed Control for Athletic Field Turf

*Thurs., Jan. 21*

- Poa annua Control in Sports Turf Areas

### Water - sponsored by Rain Bird

*Tues., Jan. 19*

- Developing and Implementing Best Management Practices for Sports Field Water Conservation

*Wed., Jan. 20*

- Managing the Drought as a Public Entity
- Irrigation Water Testing and Interpretation: Case Studies from the Field

### Professional Development

*Tues., Jan. 19*

- Crisis Communications for Sports Turf Managers

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### Wed., Jan. 20

- Sports Turf Management: Past, Present, and Future
- Preparing for Your Next Career Move

### Thurs., Jan. 21

- Finding Happiness in a Stressful World
- Keys to Success in Media Interviews

### Fri., Jan. 22

- Balancing Work and Family

### Research

#### Wed., Jan. 20

- Opening General Session-Biomechanics and Injury
- At the Crack of the Bat - The Science of Wood Baseball Bats
- Overseeding Selections and Practices to Increase the Performance of Your Field
- Shedding Light on Athletic Field Paint and the Turfgrass Response
- Virtual Human Models for Biomechanics of Injury Mitigation and Prevention

- Shoes and Surfaces: Partners in the Reduction of Injury Risk for Elite Athletes

#### Thurs., Jan. 21

- Evaluating a Hybrid (Natural and Synthetic) Athletic Field System
- Turf, Sports, Physics, Concussions, and the Kitchen Sink

#### Fri., Jan. 22

- University Research Update Panel

### Facility Management

#### Tues., Jan. 19

- Optimizing Mowing and Application Equipment Performance through Sound Maintenance Practices

#### Wed., Jan. 20

- Is Your Facility Safe?
- Who's Afraid of Calculations?
- Tournament Field Preparation for Parks and Recreation Facilities



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*Thurs., Jan. 21*

- Prioritizing the Little Things That Make the Big Picture
- Cost Analysis & Recordkeeping - What do BMPs Actually Cost You?

*Fri., Jan. 22*

- Baseball Panel
- Football Panel
- Soccer Panel
- Extreme Weather Panel
- John Mascaro's Photo Quiz Comes Alive

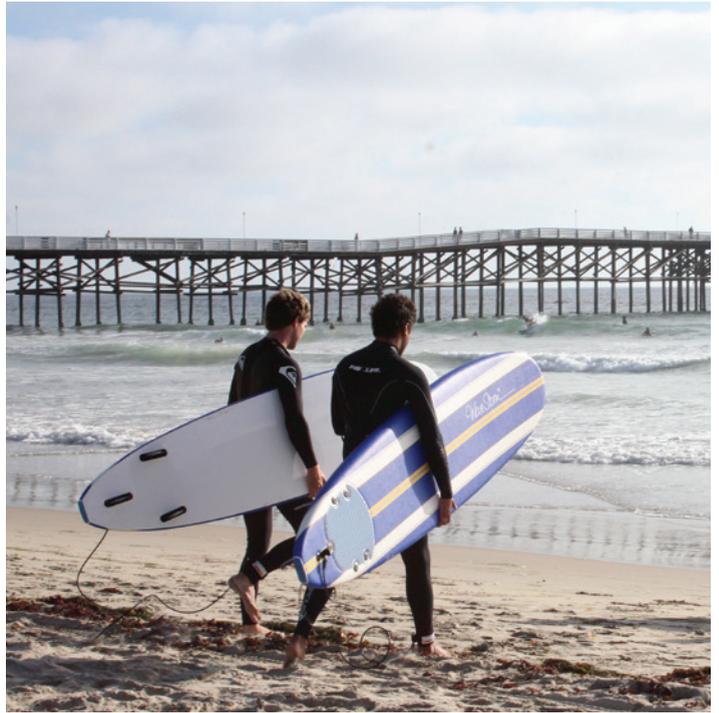
**Construction/Renovation**

*Wed., Jan. 20*

- Renovations and Replacement of McLeod Athletic Park Synthetic Turf Sportsfield
- Managing Renovations In-House

*Thurs., Jan. 21*

- Natural Grass Fields - From Construction to Performance and Perception
- Field Specifications - Construction & Renovation Planning
- Creating and Correcting a Sports Field Construction Disaster



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## Industry Developments

Wed., Jan. 20

- New Trends and Technology in Sports Turf
- Weather Apps: Great Tools for Successful Fields

Thurs., Jan. 21

- Growing Grass from Real Madrid to Green Bay Packers with Innovative Technology

Fri., Jan. 22

- An Update on European Turf Developments
- Technology in the Sports Turf Industry
- Colorant Formulations, Uses, and Science for Turfgrasses

## Sustainability

Tues., Jan. 19

- Reducing Inputs and Enhancing Turf Performance through Site Specific Management

Wed., Jan. 20

- Truth: Organics vs. Synthetics
- The Battle of Trenton: A Debate Over Safe Playing Fields



### CEUs You Will Receive:

CEUs are being awarded from ASBA, GCSAA, IA, NALP, NIAAA, NRPA,

PGMS and STMA.

4 Credit hours are being awarded by California for Pesticide Recertification for the following sessions: (Attendees must be in attendance for all sessions to receive credit.)

Wed., Jan. 20

- Inside Herbicides
- Advanced Weed Control for Athletic Field Turf

Thurs., Jan. 21

- Poa annua Control in Sports Turf Areas

## NEW PRODUCTS AND TECHNOLOGY YOU'LL WANT TO SEE:

"The National STMA Conference and Trade Show is the most important show Beacon Athletics participates in each year because the attendees best fit the demographic that



we strive for, athletic field turf managers. It is, without a doubt, the best run trade show of all that we participate in each year, hands down." -Beacon Athletics

"Diamond Pro strives to provide the highest quality products and education in our industry and feels that the STMA is an excellent platform to showcase our products to a diverse and evolving membership." -Diamond Pro

"The STMA is important to our company for

several reasons. However, most important is the national show is the only show in the country where we can see so many of our customers and similar vendors in one place on an annual basis." - Pro's Choice

"Membership in the STMA has enhanced our relationship with sports turf managers, allowing us to gain a better perspective of their unique needs and challenges and how we can work together to address them." - Aquatrols



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## EVENTS YOU'LL WANT TO ATTEND (IN ADDITION TO ALL THE EDUCATION)



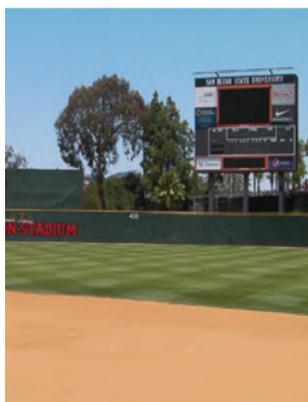
### Diamond Pro SAFE Golf Tournament at Riverwalk Golf Club

*Tues., Jan. 19* - Includes transportation, lunch, tee prizes and the chance to win \$10,000 and other prizes. Cost: \$135 (by Dec. 15) Drink Sponsor: Carolina Green Corp.; Hole sponsor: JSM Services.



### Fields, Inc. SAFE Night of Bowling at Tavern Bowl

*Tues., Jan. 19* - Includes transportation, dinner, drinks by Beacon Athletics and prizes: Cost: \$75 (by Dec. 15)



*Fri., Jan. 22* - half day: Tour Qualcomm Stadium and San Diego State University. Cost: \$35.

Sponsors: Green One Industries and Bush Sports Turf



### Seminar On Wheels - 2 days of Off-Site Tours

- sponsored by GreenOne Industries and Bush Sports Turf

*Tues., Jan. 19* - full day: See So Cal Sports Complex, Del Mar Race Track, San Diego Jewish Academy and Petco Park. Lunch included. Cost \$65.



### Welcome Reception - sponsored by The Toro Company and Covermaster

*Wed., Jan. 20* - Catch up with old friends and meet new ones while enjoying excellent hors d'oeuvres and beverages.



**Awards Reception & Banquet with SAFE Live Auction** - Awards Program  
Sponsors: Ewing, Carolina Green, Graff's Turf, Hunter Industries, Pro's Choice, and World Class

*Athletic Surfaces*

*Fri., Jan. 22* - Bid on fantastic stuff while enjoying a reception, followed by a gourmet dinner. Join STMA in recognizing its 2015 award winners.



**Auction & Raffles Silent Auction**

- sponsored by Pioneer Athletics.

*Thurs., Jan. 21 and Fri., Jan. 22*. Bid on new items daily in the trade show hall.

**Large Item Raffle** - Buy tickets throughout the conference. The drawing takes place prior to the banquet on Fri., Jan. 22. Do not need to be present to win.

**Live Auction.** Fri., Jan. 22. Bid on exciting items such as trips, sports packages, and other highly desired items.



**Women's Forum**

- sponsored by founding sponsor Hunter

*Wed., Jan. 20*. All women are invited to attend a networking and learning session, and enjoy lunch.

**Chapter Officers Training Session** - sponsored by Aquatrols, Hunter Industries, John Deere, Pioneer Athletics and Turface Athletics *Fri., Jan. 22*. Chapter board members are invited to participate in a networking and learning session about issues affecting chapters.

**Networking Sessions**

*Wed., Jan. 20*. Meet with your peers in your employment category to share issues and discuss solutions.

**Student Activities**

Students are invited and encouraged to attend all of the educational sessions and other events. Activities specific to students include: Student Networking, *Wed., Jan. 20*. Meet your fellow students during this networking session.

**Student Challenge, Thurs., Jan. 21**. Win \$4,000 for your school. Go to STMA.org for more information and to register your team. *Sponsored by Hunter Industries and Ewing.*

**Student Lunch, Fri., Jan. 22**. Join your peers for lunch on the trade show floor. Student Challenge winners will be announced post-lunch.



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## HOT SPOTS YOU'LL NOT WANT TO MISS

The Gaslamp Quarter is right across the street from the convention center, and it offers premiere shopping, dining, and entertainment. With over 200 restaurants, bars, nightclubs and lounges, boutiques, art galleries, and shops, the Gaslamp Quarter has established itself as the playground of hip, eclectic San Diegans and as an elite urban destination. It is listed on the national Registrar of Historic Places with many unique restored Victorian buildings.



**No trip to San Diego is complete** without seeing the birthplace of California in Old Town, the site of the first Spanish settlement on the U.S. West Coast.



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Actual sequence in same location



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**December:** After seeding and fertilizing, active turf growth even with temperatures below freezing.

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**The city has 15 museums**, including the USS Midway Aircraft Carrier, which is right outside the door of the convention center.

San Diego has dozens of outdoor activities including top beaches and golf courses. The San Diego Zoo has been voted #1 in the world and its companion facility, Safari Park, offers a distinctively different experience than the zoo.

The city has 15 museums, including the USS Midway Aircraft Carrier, which is right outside the door of the convention center. No trip to San Diego is complete without seeing the birthplace of California in Old Town, the site of the first Spanish settlement on the U.S. West Coast. This area showcases Mexican lore and historical sites, colorful shops, early-California-style restaurants, museums, a theater and the restored Cosmopolitan Hotel.

Just across the Big Bay from downtown San Diego, sits Coronado Island, most notably known for the historic Hotel del Coronado and the distinctive San Diego-Coronado Bridge.

For more information on what to do in San Diego, go to [SanDiego.org](http://SanDiego.org) and download its app.

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*Advanced Aeration Systems*

# John Mascaro's Photo Quiz

John Mascaro is President of Turf-Tec International

*Can you identify this sports turf problem?*

**Problem:** No turf in small square areas  
**Turfgrass area:** College recreational athletic fields  
**Location:** Athens, Georgia  
**Grass Variety:** Tifsport bermudagrass

**Answer to John Mascaro's Photo Quiz on Page 35**



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— Kirk Grego  
Mid-America Sports Construction



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

**Advanced Drainage Systems (ADS), Inc... 813**

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[www.ads-pipe.com](http://www.ads-pipe.com)

**Aer-Flo, Inc..... 841**

**Bradenton FL**

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

**AerWay By SAF-Holland/**

**Gearmore Inc. .... 204**

**Surrey BC**

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**Air2G2 Machine/ GT Air Inject ..... 748**

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**American SportWorks ..... 605**

**Fort Wayne IN**

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**The Andersons..... 711**

**Maumee OH**

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

**Aquasmart Enterprises ..... 606**

**Lubbock TX**

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**Aquatrols ..... 529**

**Paulsboro NJ**

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**AstroTurf ..... 904**

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**Bannerman LTD ..... 710**

**Rexdale Ontario Canada**

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

**Barenbrug USA ..... 419**

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**Bayer Environmental Science ..... 444**

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

**Beacon Athletics ..... 713**

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**Buffalo Turbine LLC ..... 638**

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**Bulldog Field Equipment ..... 251**

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**Bush Sports Turf ..... 239**

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

**C & H Baseball, Inc. .... 725**

**Bradenton FL**

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**Calcium Products, Inc. .... 830**

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**Campey Imants USA ..... 639**

**Macclesfield UK**

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**Carolina Green Corp. .... 422**

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**Covermaster Inc. .... 501**

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**CoverSports USA ..... 310**

**Philadelphia PA**

Manufacturer of ball field covers, winter turf blankets and stadium padding. [www.coversports.com](http://www.coversports.com)

**Dakota Peat & Equipment ..... 212**

**East Grand Forks MN**

Manufacturer of top dressing equipment and supplier of peat, blending and testing. [www.dakotapeat.com](http://www.dakotapeat.com)

**Dennis & Sisis ..... 749**

**Derbyshire UK**

Manufacturer of ground care maintenance equipment suitable for natural and synthetic turf. [www.dennisuk.com](http://www.dennisuk.com)  
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**Diamond Pro ..... 601**

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**DLF International Seeds ..... 305**

**Halsey OR**

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**DryJect, Inc. .... 113**

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**Dura Edge Products ..... 139**

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**ECO Chemical, Inc. .... 119**

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**Ecologel Solutions, LLC ..... 126**

**Ocala FL**

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**EnP Turf/ EnP Investments ..... 900**

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**Supply ..... 600**

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**EZ- FLO Injector Systems ..... 348**

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**EZ Hybrid Turf ..... 111**

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Fairmount Minerals ..... 312**

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**Floratine Products Group ..... 819**

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**g2 turftools, Inc. .... 825**

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**Gail Materials ..... 730**

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**Gill Athletics ..... 131**

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**Graco, Inc. .... 918**

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**Graff's Turf Farms, Inc. .... 801**

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**Green Valley Turf Co. .... 727**

**Littleton CO**

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**GreenOne Industries ..... 806**

**Highlands Ranch CO**

Sports field construction, renovation, maintenance, and drainage company serving the U.S.  
[www.greenoneindustries.com](http://www.greenoneindustries.com)

**GreensGroomer WorldWide, Inc. .... 519**

**Indianapolis IN**

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

**Grigg Brothers ..... 101**

**Wellton AZ**

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**Gro-Power, Inc. .... 828**

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**Growth Products, LTD ..... 507**

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**Harper Industries** ..... 712

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**Harrell's LLC** ..... 232

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**Madison GA**

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**Holganix** ..... 104

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**Hunter Industries** ..... 313

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**Hydraway Drainage Systems** ..... 408

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**IntegraTurf, Inc.** ..... 826

**Albany OR**

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**Jacklin Seed Company** ..... 547

**Beavercreek OR**

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**Jacobsen, A Textron Company** ..... 439

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**John Deere** ..... 219

**Moline IL**

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**Johnston Seed Company** ..... 404

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**Kromer Co. LLC** ..... 100  
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**Pure Seed** ..... 133

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**SportsField Management Magazine** ..... 347

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## John Mascaro's Photo Quiz

John Mascaro is President of Turf-Tec International  
Answers from page 24



These square areas where no turf is present on this university recreational field is the result of wear. This particular TifSport bermudagrass football field is the exact size of a regulation football field and it is open for recreational use to the students during the spring and fall semesters. It hosts tremendous amounts of intramural and competitive clubs sports programs but it also serves as the University of Georgia's Redcoat marching band's practice field. The field went unused aside from a very small amount of recreational play during the summer. During the first week of classes the campus received 3-4 inches of rain. This field is native soil and has no subsurface drainage; therefore, it was saturated from all the rainfall. However, the marching band continued to practice. After only a week or so of their practicing for about 4 hours a night, the foot traffic patterns from the marching band became more pronounced due to the saturated conditions. The Sports Turf Manager encourages the turf to grow as much as possible in the mid-spring and early summer with 1 lb./1000 N, and then he spoon feeds as needed. During this down time, they also will core aerate at least twice, and aerate once using solid deep tines. They also topdress with soil and then sand to fill the craters that form where the band leaves these depressions by marching in place.

*Photo submitted by Chase Straw, graduate research assistant in Turfgrass Science at the University of Georgia. Joe Morgan is the Sports Turf manger and Groundskeeper III at the UGA Facilities and collaborated on this story.*

If you would like to submit a photograph for John Mascaro's Photo Quiz please send it to John Mascaro, 1471 Capital Circle NW, Ste # 13, Tallahassee, FL 32303 call (850) 580-4026 or email to john@turf-tec.com. If your photograph is selected, you will receive full credit. All photos submitted will become property of SportsTurf magazine and the Sports Turf Managers Association.

# Hallowed Ground

Bobby Gruhn Field  
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# PROFESSIONAL DEVELOPMENT TIPS FOR TURF MANAGERS

■ BY SCOTT STEVENS, CSFM

**S**o, you have finally landed your dream job. This is the job that is going to define your career and where you plan to spend many years. What's next to do? No matter how comfortable and settled you are, there is always a need for professional development. From the CEO of a company all the way down to the part-time help, professionals everywhere can find ways to continue to develop skills and knowledge in order to better themselves and, as a result, become better employees for their companies.

Professional development starts with a plan. Failing to plan is planning to fail. Plans can be simple or complex depending on how you want to grow. There are many self-assessment tests on the market (the Myers-Briggs Type Indicator and Career Leader assessment are well-known examples). If you have not taken one before, take the time to conduct a self-assessment to determine your work style, strengths, interests, and areas for growth. The results of your assessment will help you to set your goals. Goals can be short term (targeted to be completed within a couple of months or a year) to long term (as many as 5 to 10 years down the road).

Once you have identified your goals, turn them into an action plan. Each goal should have at least one (if not several) steps associated with it that will help you to achieve that goal. You may need to research the different options available to help you achieve your goals.

After you have developed your action plan, the key is to actually take action! You will get where you want to go by developing a schedule that works for you. For example, if you plan to expand your skillset by taking an online class, schedule the class during a time of the year when you can regularly devote one or two evenings a week to doing the classwork. If your goal is broader and more long-term, such as taking on more responsibilities at work, build room in your schedule to make those new responsibilities a part of your daily work.

Regardless of the longevity and scheduling of your goals, an overarching theme in your professional development plan should always be to continue to learn and grow within your job.

Regardless of the longevity and scheduling of your goals, an overarching theme in your professional development plan should always be to continue to learn and grow within your job. Throughout your career take opportunities that are available to you and make the most of them. Some actions that could help you reach your goals include:

- Join a professional organization. Groups such as the STMA and smaller more localized sports turf associations offer conferences, valuable contacts, and leadership opportunities. Get involved!
- Take or teach classes. Taking a class can be a great way to learn new skills or brush up on old ones. STMA, local community colleges, and many well-known state schools offer online courses and certificate programs specifically geared towards sports turf managers. If you feel you have mastered much of what is being offered, know that teaching a class or seminar can be just as rewarding as taking one. The audience that you are teaching often brings new ideas or challenges some of the old ones. You don't have to teach a formal class to have this experience, either. Think about implementing a seminar or workshop series with your own staff. Have members of the staff present on topics about which they are particularly knowledgeable. This not only gives individuals an opportunity to share what they know, but it also builds the team's knowledge base and exposes you and your group to new and different ways of thinking. Not to mention, staff presentations are great way to spend rainy days!

■ Get involved with your community. This may be with a local youth league, a non-profit, or any other local community organization. Sharing your time and expertise is one of the best ways to strengthen the community in which you live while simultaneously broadening your experience base. If you don't have time to commit to organizations outside of work think about other ways you can participate. Each year the facilities that you maintain host events. These can be opportunities to branch out and get involved on a more short-term basis. For example, Elon University annually

hosts the local Special Olympics day on its sports fields. Every year the sports turf staff takes 4 hours to volunteer helping special needs athletes get to their events throughout the day.

- Take on new responsibilities. Expose yourself to new experiences by expanding your role. Make new responsibilities a part of your daily work schedule. Show that you are capable of (and can excel at) handling more/different work.

- Read books or articles. There is a great deal of information about sports turf management available; you just have to find it. Sites like the National STMA website and university websites sites, such as North Carolina State's turfgrass files, provide access to articles written by industry experts and list servs where you can connect with others in the field. Other good sources of information can be printed material; books like *Sports Fields* by Jim Puhalla, Jeff Krans, and Mike Goatley, or *Turfgrass Science and Culture* by James Beard are great standards for our industry. In addition, this magazine is full of articles on current industry challenges and solutions by knowledgeable writers with experience in the sports turf world.

- Find a mentor. If your long-term goals are to be at a position above your current one, find someone who is currently in that position and learn from them. This can be done over many months or in a day. Find out what it takes to do

their job and what qualifications or skills they possess that make them good at what they do. This can also provide you with a direction for your career and more clear goals and action steps for your development plan.

- Be a part of taking the industry standard to the next level. You have clearly met the qualifications for your job, or you wouldn't have been hired to do it. Don't rest on your laurels. Push expectations to higher levels. Strive for excellence as an individual and as a team. Think outside the box and you might just put your program on the map and become an industry expert yourself.

Regardless of your tenure in the field, professional development should be a constant part of your work. In any industry, the leaders who are constantly learning are those that have the biggest impact. Broadening your knowledge base and expanding your skills takes time, planning, and effort. With the right research, though, you will uncover resources that can help you take action towards achieving your goals and becoming an even better employee, manager, and contributor in the sports turf industry. **ST**

*Scott Stevens, CSFM, is the sports turf manager at Elon University, Elon, NC. He is a member of the STMA Editorial Committee.*



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International Patent Application  
No. PCT/GB2013/000451

# PRACTICES TO PROMOTE A POSITIVE IMAGE

■ BY BRIAN WINKA, CSFM

**W**e as field managers are on the frontline of the recreation experience of each and every person who steps foot at our complexes. As a manager there are many hats that we wear throughout the day, turf expert, plant pathologist, irrigation specialist, computer wiz, project manager, and electrician and so on and so on. Because of the ever-changing nature of our jobs, there are several steps that you can take to be out in front of potential problems. Preventative maintenance practices will save you time, money and headaches in the future.

Maintenance policies and procedures must be geared to provide optimum recreation use; that is, areas and facilities that are functional, safe, and aesthetic. As a result, maintenance directly and continuously affects the parks and recreation experience of visitors to park and recreation areas and facilities. High-quality maintenance saves money for the department in many ways. If areas, facilities, and equipment are kept in operating condition, downtime and corresponding loss of services are minimized. Good maintenance practices permit the department to identify and correct problems when they are still relatively minor, instead of after they become major.

Regular preventive inspection programs permit the early detection and correction of potentially hazardous acts and conditions. If maintenance functions are not diligently planned, performed, and documented, the departments' liability exposure and attendant costs can be greatly magnified. Proper maintenance of recreation areas and facilities is essential to prevent or reduce accidents to users.

Maintenance efforts directly reflect upon the public image of you as a manager and the facility you operate whether it is a school, municipality or a private complex. Providing clean, attractive, and stimulating recreation facilities and equipment significantly contributes to a high-quality recreation experience for visitors, participants, and spectators, leaving them satisfied.

In recent years, the public has developed a strong environmental ethic. Cities are increasingly expected to exhibit responsible stewardship for land and other environmental resources under their jurisdiction. From a maintenance standpoint, this expectation is reflected in the proliferation of public recycling programs, integrated pest management policies, land use restrictions, and similar environmental considerations. A good maintenance program can help prevent overuse and preserve the recreation resource, extending the useful life of property, tools, structures, equipment, or materials and ensuring the carrying capacity of all facilities.

Practices to help promote a positive image for your site can be

broken down into six categories:

- Assess your site
- Map your site
- Train your staff
- Management responses
- Cultural and physical options for turfgrass management
- Record Keeping
- Evaluate

Assess and address site-specific conditions and needs for the intended function of a given turf grass area, e.g., high profile area vs. less visible area vs. practice fields vs. competition fields. The questions should be asked: Are the weed, disease, or insect problems affecting the function of the turf area? If so, why and what can be done to address the cause of the problem rather than treating the symptom? Initial soil samples should be taken for moderate and highest care zones before the growing season begins. Samples should be analyzed and interpreted by a laboratory to provide recommendations for fertilizer and soil amendments. Soil compaction and site moisture drainage should also be assessed.

Grounds for each property should have some form of a map. An initial site inspection should be conducted for each turf grass/landscape area prior to the growing season. Key turf grass/landscape species and key locations should be identified on maps. The use of each area and current traffic patterns should also be noted. Key pests should be identified for each area. A book of irrigation maps is also helpful to have on hand for irrigation audits and for repairs when needed. Post these maps so staff members can all be on the same page about each area of your facility.

Turf management staffs need to develop a basic understanding of soil and turfgrass biology, proper cultural practices and signs and symptoms of threats to healthy turf including weeds, disease, and insects. Use local STMA events and chapters, local conferences, monthly training meetings, or ask your commercial vendors to help train staff members. Many of the commercial vendors were at one time managers. They understand the problems we face and they can help with solutions. They also can help put you in contact with other managers in your area that may have a similar complex and has dealt with the same issues you may be facing.

Management strategies will be recommended based on monitoring results and the nature of the problem. Methods include cultural and physical options for turfgrass management. Cultural methods include selections of the proper landscape plants & turfgrass cultivars; over seeding; topdressing; modifying irrigation, mowing, and/or fertilizing practices. Physical and mechanical methods include removal of thatch if necessary; aeration; individ-

ual removal of weeds and pests (as practical). Biological controls are the use of bacteria, fungi, insects, or viruses to control turfgrass pests. Use of endophyte-containing perennial ryegrass and tall fescue cultivars should be used when possible.

Pesticide should be used if insect; disease or weed problems meet or exceed your threshold values that were pre-determined in your site evaluation. Spot treatments to affected areas are preferred to broadcast applications whenever possible pre-emergent herbicides and insect controls can also be used to help control unwanted pest. When using pesticides, timing is key. Insecticides such as imidacloprid can be applied at the label rate to treat before an infestation happens. The typical preventive timing is from June to July. Most provide season-long, preventive white grub control, while knocking down and preventing other nuisance pests, like ants, chinch bugs, sod webworms and cutworms with the same application. Pre-emergent herbicides **MUST** be applied **BEFORE** crabgrass seed germinate. Crabgrass seeds germinate when spring soil temperatures tend upwards from 50 degrees F. Weed scientists' use 52 degrees F. at one-half inch deep as the trigger point for their application of pre-emergence herbicide. It is important to keep a separate record of all chemical products (pesticides and fertilizers) used on properties. These records should be kept for at least three years and be made accessible to all interested persons, see state and local laws.

Cultural management is the key to maintaining healthy, pest-resistant turf grass. A comprehensive cultural management program should be developed and implemented to prevent and avoid insect, disease and weed problems. Weeds in turfgrass are encouraged by thin or weak turf. Mowing high and frequently, especially in the spring, over seeding and proper fertilization, irrigation, aeration and pH should be the first line of defense against weeds. Avoid planting turf in inappropriate locations. Select the proper variety of turf for the site including sunny vs. shaded locations. Tree and shrub roots compete with turfgrass for water in addition to blocking sunlight needed for photosynthesis and energy production. Heavily shaded areas are not generally conducive to healthy turf. Overseed with a high-quality seed to provide new plants into aging turf. Water in and keep moist but do not overwater which will encourage disease. Good soil-to-seed contact can be encouraged by lightly tamping or rolling after application. Short, cool days approaching the end of the growing season are better for turf seed germination and growth. If seeding is needed at other times, a fast-germinating and growing variety such as perennial rye can be used. Annual rye can also be used as a quick fill in followed by reseeded in the fall using other varieties.

Maintain adequate nitrogen, phosphorus and potassium levels in the soil. Established turf generally does not need supplemental phosphorus. Fertilize in early spring and late summer/early fall. A mid-summer application should be considered if fertility is not adequate. Do not apply fertilizer when turf is not actively growing to reduce nutrient runoff. Multiple fertilizer applications at lower rates are preferable to single, high-rate applications which are also prone to runoff. Many of the fertilizer companies are working on better polymer coatings on fertilizers that gradually meter nutrients for several months or even all season long to meet the plant's

needs. By using the enhanced efficiency fertilizers, you can use up to 40% less nitrogen per year, which is good for the environment and your bottom line.

Aerification should be a part of every turfgrass maintenance program because it is absolutely necessary for maintaining healthy and durable turf. Failure to perform this simple maintenance can result in poorly drained soil, thin turf stands, and continued problems with disease. Aerification can benefit your turf by added oxygen and water that deep aerating provides. Aerate turf when it is actively growing and can fill in holes created during aeration. Excessive thatch is caused by the accumulation of dead turfgrass blades and roots. Aerification and topdressing the area can restore biological activity to decompose thatch. Additionally, proper watering, fertilization, pH maintenance, and aeration should correct thatch buildup.

If irrigated, water thoroughly and deeply with each irrigation to encourage deep rooting. Do not water late in day or at night to avoid leaving turf blades wet for a prolonged period, encouraging diseases. Run irrigation test frequently to ensure that your system is working properly, i.e. no leaks, heads are spinning as they should, valves open and close, etc. Sprinklers installed too low cannot rise above the turf or other plant materials. This results in an interruption of the sprinkler's pattern of throw and can lead to gaps in coverage and flooding near the sprinkler. In addition, sprinklers that are installed too low are more prone to retraction problems and pre-mature failure as soil enters into the operating mechanism. In shrubby areas, heads may be located at the base of the shrubs or groundcover they are watering. These heads must be close enough together to cover the area by throwing water under the plant material. As shrubs mature, adjustments may be necessary to be certain that coverage is still adequate. In many cases where heads were installed correctly, the turf builds up and grows with time, causing the heads to be too low relative to the surrounding grass. All systems should be periodically checked to make certain grass or plantings do not interrupt sprinkler patterns. Sprinklers installed too high are an invitation to damage by mowing equipment or vandalism. They can also be a trip hazard that results in unwanted liability. Sprinklers that are installed too high should be corrected before damage or injury occurs.

After any type of management strategy, turfgrass and landscape areas should be regularly inspected for results. After several seasons of a preventative maintenance management program, the long-term success of the program can be assessed. Compile a site-specific history of monitoring records, pest infestations, management strategies, evaluation records, and feedback from maintenance personnel. This data may be helpful in predicting future pest occurrence and fine-tuning action thresholds. Be sure to include what worked and what failed. Another good practice is to get input from any other maintenance staff at your facility. Take photos to document any projects and maintenance practices because as you know, a picture is worth a thousand words. **ST**

*Brian Winka, CSFM, is supervisor, City of Chesterfield, MO and president of the STMA Gateway Chapter.*



# Stadium Field, Maryland SoccerPlex, Boyd's, MD

**Category of Submission:** Professional Soccer

**Sports Turf Manager:** Ryan Bjorn

**Title:** Sports Field Director

**Education:** BS, AAS, Plant and Soil Science, Turfgrass Management

**Experience:** I started as an intern working on the grounds crew for the Boston Red Sox, and remained on staff for the 4 years while pursuing my Bachelor's Degree at the University of Massachusetts, Amherst. During this time, I also worked one summer season for the City of South Portland, ME at the Wainwright Sports Complex helping maintain two baseball fields, four baseball fields and six soccer fields. After the baseball season completed in 2010, I went to work for the New England Patriots field crew, helping maintain one stadium Field Turf field and three natural grass practice fields,

for the 2010-2011 season, ending in February 2011. I then applied for the manager-in-training position at the Maryland SoccerPlex (after finding the posting on stma.org!) and was hired in March of 2011. In the 3 years since then I have worked my way up from manager-in-training to assistant field manager, then to field manager and have been acting Sports Field Director since February 2014.

**Original construction:** 2000

**Renovation:** 10 seasons of mismanagement created a number of problems, including an accumulation of a 3" organic layer (drainage and compaction issues), a heavy infestation of *Poa* (disease problems, aesthetically unpleasant, poor stability), and to get back to the original grade/expose and utilize existing stability fibers. Removed the top 3" of the field surface to get rid of the

accumulated organic matter and expose the original sand/stability fiber rootzone. Surface was recycle dressed to refresh the profile and expose some stability fibers, the rolled, 3/4" of 100% sand was added, field was seeded with Kentucky bluegrass and perennial ryegrass, then 1/4" 80/20 sand/organic mix was added on top. Field was rolled and watered, then opened for play again 35 days later.

What was the soil composition of the field before renovation? 100% Sand/stability fiber mix with 3" organic layer. What was the soil composition of the field after renovation? 100% sand/stability fiber mix.

**Turfgrass variety:** 90% Kentucky bluegrass, 10% perennial ryegrass

**Overseed:** Overseed with Kentucky bluegrass twice a year in the Spring and Fall



**WHY STMA SHOULD CONSIDER YOUR FIELD A WINNER?**

2014 was an interesting and busy year for the SoccerPlex Stadium Field. We at the SoccerPlex pride ourselves in our ability to host many events, without sacrificing the quality of our playing surfaces. The number of events continues to increase every year, and 2014 was no exception.

The Spirit, Washington D.C.'s National Women's Soccer League team was back for their second season calling SoccerPlex Stadium home. In a league with nine teams, six of which play on synthetic turf fields, the stadium field here at SoccerPlex

was a highlight for all visiting teams and a source of pride for the hometown Spirit.

In addition to hosting a full NWSL season, the Stadium field is also host to a large number of other events. These events include things ranging from 3-year-old children in their "Pre-Kicks" classes, to all youth age groups playing in local leagues, state-cup matches, lacrosse tournaments and the largest new event addition of the year, the US Youth Soccer National Championships.

The National Championships are the most high-profile event in the US for youth soccer, and we were happy to host



The Field of the Year Awards program is made possible by the support of sponsors Carolina Green Corp., Ewing, Graff's Turf, Hunter Industries, Pro's Choice, and World Class Athletic Services.

this tournament. It did provide certain challenges, the largest of which was the timing, being played throughout the entire third week of July, which in the Mid-Atlantic is not a historically great season for growing Kentucky bluegrass! Another challenge was the scheduling conflict that arose from an NWSL match being slated to take place on the Wednesday night of Nationals. Both parties were very accommodating, helping to switch field-level advertisements and other USYS-branded materials out for the NWSL match, and everything went forward seamlessly!

Having the sand-based stadium field has been a huge help to us during rain events. We are able to move games that would otherwise have been cancelled onto the stadium, and reduce the amount of lost revenue from rained-out events.

The large number of events, different type of events (youth clinics/ small-sided soccer/ full sided soccer/ professional soccer/ lacrosse, etc.), and the challenge of increasingly unpredictable weather patterns certainly make SoccerPlex a unique field with unique challenges.

We look forward to a great fall and winter here at SoccerPlex, and can't wait for another busy, innovation-filled season next year!

**SPORTSTURF:** What are your specific job responsibilities? What do you find most enjoyable? What task is your least favorite and why?

**BJORN:** My specific job duties include things like big picture planning, budgeting, creating an agronomic program for the year and (when I'm lucky) getting out on some equipment.

I always have enjoyed field layout, ever since I was taught the process while working for Jon Bengtson with the New England Patriots/Revolution, I've really enjoyed learning all the different field layouts. We take great pride in our fields here and having square corners and straight lines are a big part of that.

My least favorite task is usually anything that has to do with communicating bad weather forecasts to our staff here at the

SoccerPlex. Being the bearer of bad news is never fun, but being able to communicate clearly and with confidence is important, and people tend to respond more favorably when you come in with a positive attitude.

**ST:** What changes if any did you implement for the winning field in 2015?

**BJORN:** We have a fairly consistent plan year-to-year, but we make minor changes depending on certain factors (weather, usage of the field, etc.). We did make one somewhat major change the past season; we went from using a fairway mower to using a much smaller and lighter triplex mower with the goal of reducing additional compaction and wear and tear.

**ST:** How do you see your job changing in the future?

**BJORN:** Well the county in which the SoccerPlex is located in MD, Montgomery County, just passed legislation banning "cosmetic-use" pesticides on private lawns and other specific areas. While we are currently not directly affected by this, I see this becoming a trend in our industry. Not necessarily a pesticide ban, but becoming more and more environmentally conscientious as turf managers. I believe it could be a good thing as a whole for our industry because it will force people to make some changes to their plans and become more plant-health focused, which is significantly different from a lot of "old-school" turf management programs.

**ST:** What's the best piece of turf management advice you have ever received?

**BJORN:** To narrow it down to one piece of advice would be very difficult, but I think two of the most important things I was ever taught were 1) to lead by example and 2) mistakes happen, what is important is to learn from those mistakes and never make the same one twice.

**ST:** How do you balance your work and personal time?

**BJORN:** Balancing work and personal time can certainly be difficult, especially during our busy season (March-November). I think it's essential to take advantage of any time you have off and really disconnect when possible; having a hard-working, reliable crew is a huge advantage when it comes to this. Being able to count on them to keep things running smoothly while you are away can seriously reduce your stress!

**ST:** What's your most valued piece of equipment and why?

**BJORN:** While they aren't technically equipment, our staff is an absolute machine. Our Manager of Grounds Mitch Litz, Assistant Managers of Grounds Martin Volz and Jon Swartz take all my crazy ideas and translate them into achievable tasks for the rest of our crew to accomplish day-in and day-out. We are lucky to have our two foremen, William Godoy and Joel Cruz, who have been here over 10 years and know the entire complex like the back of their hand. The rest of our part-time crew work extremely hard and are so passionate about their work, we absolutely could not do what we do without every single one of them. **ST**



# The Sports Turf Managers Association Industry **SOURCEBOOK**

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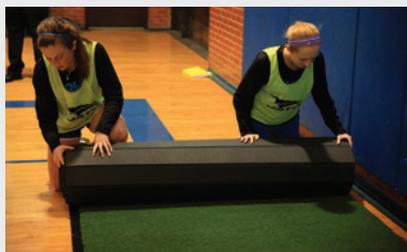
**SportsTurf**  
MANAGERS ASSOCIATION

# UGA turfgrass certificate course goes online

**T**he University of Georgia has introduced an online English version of its popular turfgrass management course. The certificate course, titled “Principles of Turfgrass Management,” covers warm- and cool-season turfgrass establishment, growth, maintenance, and troubleshooting. More than 2,050 landscape professionals have taken the course in its print format

(English or Spanish). Those who complete UGA’s course become Landscape Industry Certified by the National Association of Landscape Professionals (NALP). The Golf Course Superintendents Association of America, SportsTurf Managers Association, and Asociación Española de Greenkeepers also endorse UGA’s certificate program.

## PRODUCTS



### GYMTURF 365: THE FUTURE OF INDOOR TRAINING

Dollamur Sport Surfaces has unveiled its newest product, GymTurf 365, developed in partnership with Shaw Sports Turf. This portable, indoor synthetic sports turf provides a safe and playable surface to compete on year-round at the same intensity as an outdoor practice and can be installed in 30 minutes or less. Next time it rains or snows, GymTurf 365 enables your team to continue practicing, bypassing any weather road-blocks. It requires no infill. GymTurf 365 features Dollamur’s patented FLEXI-Connect technology, a hassle-free integrated feature that connects turf sections without additional fasteners or tape. The patented system, which uses built-in hook and loop connections to join turf rolls, expedites set-up and tear down. It ensures the turf will not separate between seams for a “no slip, just grip” surface.

**Dollamur Sports Surfaces**

### UNDERHILL’S H2O MAXIMIZER WETTING AGENT

H2O Maximizer from Underhill International is a specially-formulated wetting agent for sports fields that penetrates dry soils and utilizes “ultra hydration” to retain more water in the root zones for healthier turf. Available in both liquid and pellet form, H2O Maximizer is a unique natural blend of soil surfactants and polymer resin. The surfactant ingredients stimulate initial soil wetting action while the polymer resin attaches to soil particles



for better water retention. H2O remains active in the soil for four to six weeks, then bio-degrades into natural materials. Because of H2O’s exceptional water-holding capacity, irrigation efficiency and rainwater absorption are improved, and the need for hand watering is reduced. H2O is especially recommended for new sod and seedings, and is also beneficial for established turf. It can be tank mixed for spray applications or injected directly into the irrigation flow or spread as pellets.

**Underhill International**



### INTRODUCING FAME FUNGICIDES FROM FMC

Fame fungicides, a family of FRAC 11 group (Strobilurin) products that deliver fast-acting, patented fluoxastrobin protection against all major patch, spot, and mold diseases, are now available from FMC. Rainfast in 15 minutes, Fame fungicides can be used on all types of turf and provide rapid foliar and root uptake. Fame fungicides offer quick penetration of leaf surfaces and foliar uptake, providing translaminar movement throughout the plant tissue. At the same time, systemic root activity allows turf plants to readily take up fluoxastrobin and translocate it throughout the xylem to all plant parts. Since fluoxastrobin is rainfast within 15

minutes, using Fame fungicides provides greater flexibility to work around irrigation schedules and sudden rainstorms.

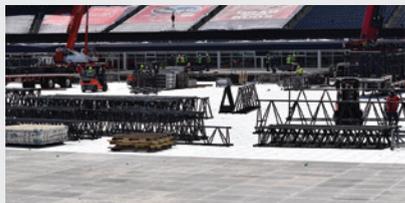
**FMC Corporation**



### JACOBSEN LAUNCHES ALL-NEW PROFESSIONAL SERIES MOWERS AND UTILITY VEHICLES

Jacobsen has launched the all-new Professional Series commercial-grade mowers and utility vehicles. The flagship is the RZT line of ride-on zero turn mowers, which provide the power and performance to handle any turf job with ease. The RZT mows up to 5.3 acres per hour with either a 25 or 27 horsepower Kawasaki FX engine or a fuel-efficient 27 horsepower Kohler EFI engine. Jacobsen’s SZT stand-on mower packs power into a small footprint and features a 26 horsepower Vanguard engine and two different deck sizes. The new mower series is rounded out with the WZT walk-behind mower. The WZT features an 18 horsepower Briggs & Stratton engine and single or dual-drive drivetrain options. The new Jacobsen utility vehicles are led by the gas-powered Truckster MS/MX, featuring a large capacity of 1,200 pounds and a top speed of 17 MPH. An available linked suspension on the MX model allows it to handle rough terrain with ease.

**Jacobsen**



## GILLETTE STADIUM ACQUIRES TURNKEY TURF PROTECTION SYSTEMS

Gillette Stadium, home of the New England Patriots, recently acquired a turnkey outdoor drivable field cover from Matrax, Inc. to protect the synthetic turf during non-football events. The primary purpose of the Matrax field covering system is to protect the synthetic turf, support heavy vehicular traffic during the construction of stages and lighting systems and to provide a safe surface for the general public during events. Where other field covering systems are designed from a flooring perspective, Matrax was engineered with temporary road building and heavy vehicular traffic in mind. It was also designed to be easily installed, stored, and transported. Moreover, the Matrax system has translucent properties that permit light to penetrate to the surface below, thus allowing natural grass to stay alive for up to seven days while covered, thereby eliminating the need for sod replacement. While it transmits light, it does not transfer heat from the surface to the underside.

**Matrax, Inc.**



## PROFILE FIELD & FAIRWAY

Profile Field & Fairway turf conditioner is ideal for construction and maintenance of sports fields. Field & Fairway is easily applied as a topdressing before or after rain and heavy traffic

events. The uniform particles provide a balance of air and water pore space to increase drainage and prevent muddy conditions. Field & Fairway's nutrient-holding capability aids turf recovery. Pamela Sherratt, Sports Turf Specialist at the Ohio State University's Horticulture and Crop Science Department, conducted research on Field & Fairway, comparing its use for preventing turf damage and rescuing turf from rain game conditions. Her conclusion: "One rain game can destroy a natural grass field. I'm pleasantly surprised with Field & Fairway in both preventing damage and speeding recovery of natural grass fields in rain game situations."

**Profile Products**



## TORO EXPANDS T5 RAPIDSET SERIES PRODUCT LINE

The Toro Company is adding five new 3/4" rotor models to its T5 RapidSet Series rotor product line. The tool-free arc adjustment of the patent-pending RapidSet feature allows the arc orientation and angle to be quickly set or changed through a straightforward combination of twists of the nozzle turret. The T5 RapidSet rotor's unique slip clutch makes the no tools arc adjustment possible, while also protecting the turret gears and components from damage. The rotor can be adjusted to cover arcs of 40° to 360°. Similar to the T5 RapidSet lawn model, which was introduced early last year, the Shrub and High Pop models also feature Toro's exclusive Airfoil™ Technology nozzles. The nozzles' geometries are specially designed for the T5 and create a low-pressure zone just beneath the nozzle openings, which delivers a better up-close watering profile and leading overall distribution uniformity.

**The Toro Company**

## DEERE UPDATES 3E SERIES OF COMPACT TRACTORS

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hydrostatic transmission with Twin Touch pedals provides operators with simple, comfortable-to-use controls to find the right speed for the job at hand. It's as easy as pressing a single foot pedal to go forward and another foot pedal to go in reverse. Automotive-style cruise control is optional. Intuitive controls are color-coded (orange for throttle and shifting; black for hydraulics; yellow for power take-off (PTO) for easy operation. Both models feature a flat, uncluttered, open station operator platform. A new, higher back seat provides added comfort for long days of work. A foldable, certified rollover protection structure (ROPS) is designed to provide easier storage. Without tools, the operator can manually fold the safety device down for easy parking.

**John Deere**



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**STEINER**



## TURFCO TURNAER XT5

Turfco's TurnAer XT5 steerable and reversible aerator now offers increased speed, a new weight system and a new gear ratio system, improving efficiency and hill performance. The weight system allows operators to adjust weight in the back of the

aerator, improving control on hills, and the gear ratio system gives operators 14 percent more speed. The TurnAer XT5 also utilizes Turfco's patented steerable aerator technology with a new variable-speed hydrostatic drive system, providing 50 percent more productivity than traditional aerators. Additionally, operators can steer and reverse with tines in the ground eliminating need to stop, lift and turn with each pass

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# Q&A with Dr. Grady Miller

Professor, North Carolina State University

**Questions?** Send them to Grady Miller at North Carolina State University, Box 7620, Raleigh, NC 27695-7620, or email [grady\\_miller@ncsu.edu](mailto:grady_miller@ncsu.edu). Or, send your question to Pamela Sherratt at 202 Kottman Hall, 2001 Coffey Road, Columbus, OH 43210 or [sherratt.1@osu.edu](mailto:sherratt.1@osu.edu)

## TOO LATE?

*We are about to overseed, is it too late to aerify? I want to control some summer weeds, is it too late to spray? Our temperatures have dropped below 55 at night, is it too late to overseed?*

**T**wo months ago I wrote an article about spraying post-emergence herbicide on crabgrass after a field manager had waited too late to get his preemergence out. I do not want my comments to be taken as a criticism, but it seems that question was the beginning of a number of “is it too late” questions I received in the past 6 weeks [editor’s note: mid-Aug through Sept].

I always heard that timeliness is a virtue. Ok, maybe that is taking it a bit too far, but initiating some turfgrass cultural practices late can strongly influence the outcome. Since we do not always know what Mother Nature has in store for us, we do not always know the best time to do everything. So, we tend to use weather cues and schedule based on previous experiences. But what happens when we are late?

For instance, let’s take the first question—aerification before overseeding. Generally, textbook instruction says to aerify bermudagrass fields 4-6 weeks before overseeding to alleviate soil compaction. Coring is performed that far in advance of the overseeding to allow coring holes to heal over, therefore preventing a speckled growth pattern of the ryegrass. The overseed grass will grow more rapid and greener in and around core holes than between them.

Of course when circumstances prevent one from following the textbook’s prescribed timing, then what? Start by asking yourself if the chance of having speckled turf is worth the known benefit of reduced compaction? That thought process puts safety over aesthetics. Perhaps your soil is

not overly compacted so that the ryegrass can be planted without aerification and then once it is well established, the field can be aerified. When the field will be used may influence the decision; in this case the speckled growth pattern will eventually even out. If a late aeration is the only time your field will be aerified for the year, then you may want to throw caution in the wind and go for it. So, there are many factors to consider.

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Most of our cool-season grass species germinate best with soil temperatures between 50 and 65 degrees. **Seed too late and cold weather may prevent sufficient establishment.**

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The second question also has variables to consider. As was mentioned in my previous “Q&A” on crabgrass, the cool temperatures can dramatically reduce the growth of summer annual weeds. In many cases a turf manager is just as well off not spraying and letting Mother Nature naturally take out the weed. This is especially the case if the weed pressure is fairly light and fall is rapidly approaching. If the weed pressure is very high and/or there is ample warm weather forecast for bermudagrass to fill the voids from dead weeds, then spraying out the weeds may be the best decision. Just keep in mind that by the time the herbicide is effective at killing the weed, the growing conditions may not be favorable for bermudagrass growth. A field manager should also be aware of residual herbicide activity if they are going to follow spraying with overseeding. In some cases several weeks must pass before seed will

germinate following the herbicide application.

The last question relates directly with overseeding. I get this question dozens of times each fall from homeowners and sports turf managers. In North Carolina we often get a few cool snaps then it warms back up. People think about seeding during these early cool snaps but by the time they get everything ready it is back in the 80s during the day so they decide to put it off. What they may not realize is that the soil temperatures are continuing to drop because the nighttime temperatures are not getting as high and the days are getting shorter. This can go on for weeks or even months. Then a hard cold front comes through and the days do not warm up so much. Then there is concern that they have waited too late.

In this case, textbook instruction suggest managers overseed when daytime temperatures in early fall are consistently in the 70s and nighttime lows are usually above 50. Most of our cool-season grass species germinate best with soil temperatures between 50 and 65 degrees. Seed too late and cold weather may prevent sufficient establishment.

So, unlike the previous two questions, this one has an outcome that is largely weather dependent. One never knows if temperatures will warm back up or stay cool. Generally in fall, there will always be a few warm days that can get seed germinated, but what is not known is how long it will last. Ryegrass seedlings are tough, but put a lot of traffic on them and they may not be tough enough to see maturity. So to answer this question about late seeding, I usually suggest the person to consider the alternative—a dormant field. If a dormant field is not acceptable, then one should get to seeding and hope Mother Nature is good to you. **SI**

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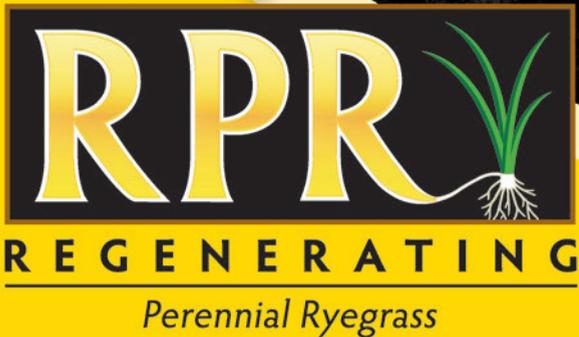
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