

THE OFFICIAL PUBLICATION OF THE **SPORTS TURF MANAGERS ASSOCIATION**

NOVEMBER 2018

# *SportsTurf*

SPORTS FIELD AND FACILITIES MANAGEMENT / [www.sportsturfonline.com](http://www.sportsturfonline.com)

## **Elevate**

## *Your Career*

**30th annual  
STMA Conference & Exhibition**

### **ALSO INSIDE**

- » John Mascaro's Photo Quiz
- » Dr. Grady Miller on investing in natural grass
- » Conference Schedule at a Glance
- » College Soccer FOY: Liberty University

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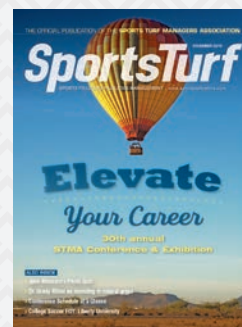
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## ON THE COVER

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On the cover: STMA 30th Conference & Exhibition, January 21-25, 2019. Learn best management practices from academics and industry experts through case studies, hands-on learning, traditional presentations and in-depth classes. Choose from eight educational tracks: turfgrass management, facility management, synthetic, pest control, water, industry developments, baseball, and professional development. Participate in a charity field re-build, or contribute to SAFE through golf and bowling tournaments, or see facilities around Phoenix via the Seminars on Wheels events, plus much more.



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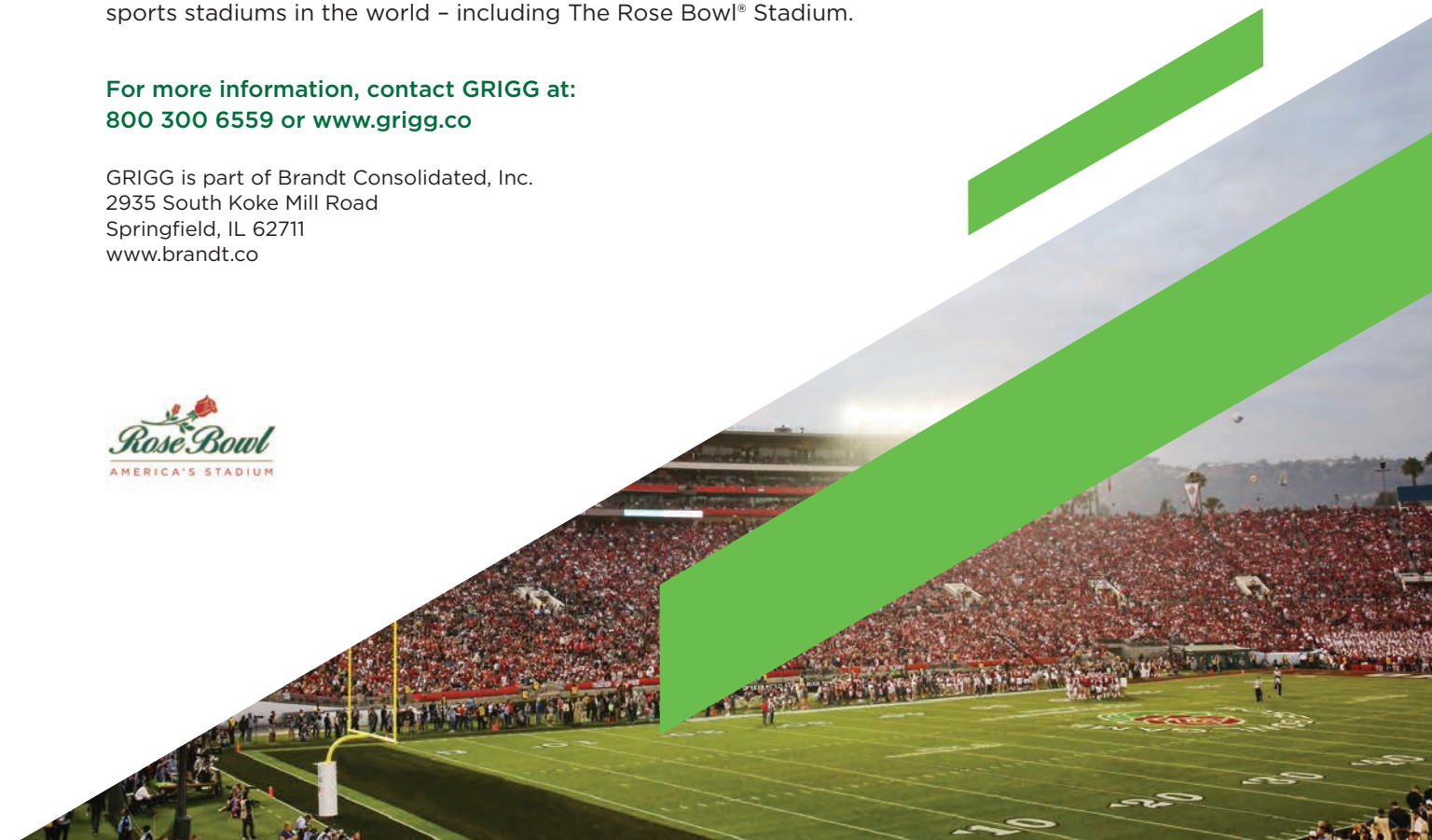
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## FROM THE SIDELINES

### Record rain redux



Eric Schroder / Editorial Director / [Eschroder@epgmediallc.com](mailto:Eschroder@epgmediallc.com) / 763-383-4458

**WHILE CURIOUS ABOUT** how turf managers are handling the aftermath of the hurricanes that have ravaged regions in the Southeast, I haven't reached out yet to those directly affected folks out of respect for their plight. Instead here are two more stories from turfsters in my region about the record rains this year:

Dave Anderson, athletic field and grounds manager for the Hempfield (PA) SD, emailed, "Without question 2018 has been one of the most challenging years weather-wise in all my years of grounds and athletic field maintenance. We had a late March snowstorm and we had a very wet spring. There was maybe a period in early summer when things dried out. But from late July through early fall, we experienced record, intense rainfall.

Because of the rain, it was challenging to get normal maintenance activities done. We've had areas that never before had drainage issues fail to dry out completely. Our mowing schedule has been basically mow when we can, even if the grass is still wet. Topdressing and seeding was pushed back almost a month, because it was difficult to get dry topdressing material. In addition, the combination of rain and humidity has created some of the worst disease conditions for turf in a number of years. But we know that we'll deal with what the Lord has blessed us with, and look forward to getting back at it again in 2019."

And this from Dr. Doug Linde, turf management professor at Delaware Valley (PA) University, and Dr. Mike Fidanza, professor of plant and soil sciences at Penn State:

"[During August and September] soils were saturated longer than normal and there were periods of high humidity with nighttime temperatures greater than 70. Warm weather diseases such as brown patch, dollar spot, Pythium blight and gray leaf spot were more aggressive and persisted longer than normal, which was a main cause of turf death. Even the best fungicide programs could not overcome the combination of abiotic stress (i.e., persistent hot and wet weather, and low light conditions from cloud cover) and high disease pressure.

"These weather conditions also contributed to delays with mowing and other agronomic tasks, and then having to get equipment out before turf areas properly dried-down often resulted in scalping and mechanical turf damage. Because of the prolonged saturated soil conditions, many supers said, '...the (rootzone) never got a chance to drain.' And using a wetting agent, under these extreme conditions, would not necessarily help, because where's the water going to go?"

"These conditions persisted until the third week of September. Normally, between mid-August and mid-September, supers are busy aerating, topdressing, seeding, and sleeping well at night because nighttime temperatures drop below 70 and grass thrives. Instead, they were making additional fungicide applications, cleaning up flood damage, and waiting to mow soggy turf areas. Finally, by the third week of September, some were able to start seeding and sodding damaged areas but were running out of daylight as days are getting shorter and the sun angle is getting lower. These conditions resulted in quicker than normal breakdown of pre-emergence herbicides used to prevent crabgrass. Finding a dry time to apply post-emergence herbicides added to the difficulty in controlling those weeds, and, in most cases, a follow-up application was needed.

"With some extra seeding and sodding and some warm fall temperatures, there is a good chance the turf should be fully recovered by mid-spring." **/ST/**

## SportsTurf

// November 2018

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**PRESIDENT'S MESSAGE**

## Upcoming Conference showcases industry's best and brightest



Sarah K. Martin / CSFM / sarah.martin@phoenix.gov / @neongrapefruit

**AND JUST LIKE THAT**, it is November! I hope that all of you have a marvelous Thanksgiving! I, for one, know that I will enjoy lying around on the couch and watching football, while eating WAY too much! And for those of you that have to work to keep your fields in play, please know that your work is greatly appreciated!

The 30th National STMA Conference and Exhibition, being held in Phoenix, is right around the corner, January 22-25, 2019. Registration is open, and I hope to see all of you there! We have a full slate of fantastic education, great networking opportunities, an amazing trade show and a first-class annual meeting and banquet on the docket! We also cannot forget the Student Challenge, which will bring some very talented students to conference to battle it out for the top ranking in four- and two-year programs.

We would love to see you on Monday, January 21. The STMA is partnering with Project Evergreen to do a Volunteer Field Rebuild at a City of Phoenix Park location. I am extremely excited about this collaboration, which gives us a chance to give back to our host City in a way that will be remembered long after the Conference is complete. While there is no cost to participate, we do ask that you sign up to attend. This can be done with your overall Conference registration.

Our charitable arm, the Foundation for Safer Athletic Fields for Everyone (SAFE), which was founded in 2000 to fund research, educational programs and scholarships geared to the sports field profession, has planned the Golf Tournament and Bowling Events, which are always a good time! Come out and support the SAFE Foundation while mingling and networking with your fellow sports turf managers! SAFE will also be continuing with the Live Auction, at its new time before the Welcome Reception, and the Silent Auction on the trade show floor. Check these out for some great items!

Check out the STMA website, at [stma.org/conference/](http://stma.org/conference/) for registration information, as well as accommodation information, and a full listing of the education programs and exhibitors.

This Conference has become the highlight of my year. I get to spend a week with other like-minded, grass-loving folks, and I go home reinvigorated for the next season of management and with new and innovative ideas to try as I strive to have the best sports fields that I possibly can!

I'll leave you with this quote, that I believe is an underlying principle of the STMA, which I have seen in action at every STMA Conference I have attended:

"Supporting another's success won't ever dampen yours."-Unknown /ST/







## @NMEXTENSIONPUBS

Las Cruces, NM August 17

NMSU researchers @NuMex\_Turf and @matteoserena1 used climate data to determine optimal irrigation amounts for #turfgrass, finding that Kentucky bluegrass might be a good choice for NM after all: <http://nmsu.life/3g>



## @BRITT\_BARRY1

West Chester Twp, OH August 22

Feeling like Oprah today marking areas between fields. "And you get sod, and YOU get sod!" #lowspotsfordays



## @TURFBLADE

Starkville, MS August 22

Sibling bermudagrass plants are already looking nothing alike



## @NICETURF

Tucson, AZ July 7

Sod installed Thursday morning is throwing roots Saturday morning #fieldexerts #turfgrass #419isstillprettygood





## @BIGTURFTEACHING

West Lafayette, IN August 26

Just another day of Midwest turf research coming to a close...

#sunset



## @MEGEVANARSDALE

Boyle County, KY August 25

How about a #FriskyFairyRingFriday a day late???



## @TURFTHEDOG

Seattle September 5

Weed whacking Wednesday!!! @Seahawks – at Seahawks Headquarters (Virginia Mason Athletic Center)



## @PUSPORTSTURFGUY

West Lafayette, IN October 16

The @Carhartt on right was purchased in yr 2000. Hard to believe its the same age as one of our @PUSportsTurf students @madihasler. I'm all 4 new stuff but hate having to break in a new pair



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# Elevate

## *Your Career*



# Phoenix, AZ

All photos courtesy of STMA

## STMA 30<sup>th</sup> Conference & Exhibition, January 21-25, 2019

Registration, all education sessions, and the trade show will be at the Phoenix Convention Center, 100 N 3rd St, Phoenix, Arizona 85004

### Registration Hours

Mon., Jan. 21 . . . . . 6:30 - 9 pm  
Tues., Jan. 22 . . . . . 6:30 am - 5 pm  
Wed., Jan. 23 . . . . . 7 am - 5 pm  
Thurs., Jan. 24 . . . . . 7 am - 5 pm  
Fri., Jan. 25 . . . . . 7 - 11 am

### Trade Show Hours

Thurs., Jan. 24 . . . . . 1:30 - 6:30 pm  
Fri., Jan. 25 . . . . . 10 am - 1 pm

### Who Should Attend

- Sports Turf Managers, Assistants & Crew
- Students
- Stadium and Facility Managers
- Coaches & Athletic Directors
- Architects, Engineers & Field Builders
- School Business Officials
- Public Works Managers
- Physical Plant Administrators
- Directors of Parks & Recreation

- Suppliers to the Industry
- Others who are involved with Sports

### Your Educational Experience

Learn best management practices from academics and industry experts through case studies, hands-on learning, traditional presentations and in-depth classes. Choose from eight educational tracks: turfgrass



management, facility management, synthetic, pest control, water, industry developments, baseball, and professional development.

## Important Information

### ASBA Certification Testing

Sat., Jan. 26, 8 am - 1 pm

The American Sports Builders Association (ASBA) offers certification for field builders and will be conducting exams at the conference. Prequalification and registration is required by Dec. 15. Go to [sportsbuilders.org](http://sportsbuilders.org) or call 866-501-2722. Those testing for CFB, CFB-N or CFB-S must register for the STMA conference, purchasing a one-day package at a minimum.

### Airport

Phoenix Sky Harbor International Airport is 5 miles from the host hotel and the Phoenix Convention Center.

### Antitrust

STMA supports competition and adheres to a policy of strict conformity to the spirit and letter of the antitrust laws. Pricing, sales terms, wages and any other competitive information should never be discussed at STMA's meetings.

### Attire

Business casual (slacks and a collared shirt for men and comparable apparel for women) is the preferred conference attire. Coat and tie is requested for the Awards Banquet on Friday. Cutoffs, jeans, t-shirts and ball caps are discouraged.

### Banned Activities -

#### Suitcasing & Outboarding

Suitcasing is when an attendee solicits business in the trade show aisles or other public spaces such as a hospitality suite or a restaurant. Also called outboarded events, these types of activities are detrimental to the exhibition. These are unethical business practices and will not be tolerated. To distribute information or conduct business, you must be an



**"I always enjoy attending the STMA Conference. Attending the STMA Conference is a great way for me to catch up with fellow turf managers that I only get to see but once a year. It's like going to a family reunion! Attending the STMA Conference is another great way to work with vendors and network with peers in the industry."**

*Eric Harshman,  
Grounds Coordinator,  
Berea College*

exhibitor. STMA has the right to remove anyone who violates this policy.

### CSFM Testing - New Format this Year!

Traditionally, the CSFM exam has been offered two times during the week of the Conference, in a written format. This year we will have a **NEW** online version of the CSFM Exam. Those who have prequalified to take the exam can sign up for a time slot nearly any time during the Conference that works with their schedule. This new electronic CSFM exam will allow for more streamlined grading and quicker results. Exam takers who do not pass all four sections

of the exam may be able to retest on those sections later in the week depending on availability. To find out if you qualify, call STMA at 800-323-3875. **Pre-qualification and pre-registration is required by Dec. 1.**

### CEUs/Pesticide Recertification

CEUs have been approved by NRPA and PGMS. CEUs are pending with ASBA, GCSAA and NALP. Five Pesticide Recertification credits are approved for Arizona. If you are attending from another state and need pesticide recertification credits, you are responsible for contacting your state's Department of Agriculture for approval.

### Conference Recordings - Free

All full conference registrants receive free access to the education session recordings. Look for an email post-conference with the link and password.

### First-Time Attendees

STMA welcomes our first-timers and invites you to a special reception in your honor on Wed., Jan. 23, 6 - 7 pm. Be sure to wear your First-Time attendee ribbon for admittance.

*Sponsored by Atlas Turf, Platinum TE, Pure Seed, Sod Solutions*

### Harassment Policy

STMA prohibits harassment of any kind, including sexual harassment, and will take appropriate and immediate action in response to complaints or knowledge of violations of this policy. For purposes of this policy, harassment is any verbal or physical conduct designed to threaten, intimidate or coerce a person.

### Hotels

Hyatt Regency Phoenix is the host hotel, directly across the street from the Phoenix Convention Center. Single or Double occupancy is \$179 per night and Triple occupancy is \$199 per night. The cutoff date for reservations will be Mon., Dec. 31, 2018. To reserve your room, go to [STMA.org](http://STMA.org) and click on the hotel link.

**Continued on page 15**





# SCHEDULE AT A GLANCE

## Mon., Jan. 21

1 - 6 pm ..... Volunteer Field Rebuild - **New**  
6:30 - 9 pm ..... Registration Open

## Tues., Jan. 22

6:30 - 8 am ..... Continental Breakfast  
6:30 am - 5 pm ..... Registration Open  
7 am - 4 pm ..... Seminar on Wheels Tour  
7 am - 4 pm ..... SAFE Golf Tournament  
1:15 - 5 pm ..... Off-site hands-on Educational Demo - **New**  
6 - 9 pm ..... SAFE Night of Bowling

## Wed., Jan. 23

6:30 - 8 am ..... Continental Breakfast  
7 am - 5 pm ..... Registration Open  
8 - 9:30 am ..... General Session: Talk Show  
9:45 am - 12 ..... Conference Education  
12 - 2 pm ..... Break  
12 - 2 pm ..... Women's Forum & Lunch  
12:15 - 1:15 ..... Fun Run/Walk  
2 - 3:15 pm ..... Chapter Leadership Training - **New Time**  
2 - 5 pm ..... Conference Education  
3:30 - 5 pm ..... Experiential Storytelling - **New**  
5:15 - 6 pm ..... Networking sessions  
6 - 7 pm ..... First-Timers/International Attendees/CSFM Reception  
7 - 7:30 pm ..... SAFE Live Auction - **New Time**  
7:30 - 10 pm ..... Welcome Reception

## Thurs., Jan. 24

7 - 8 am ..... Continental Breakfast  
7 am - 5 pm ..... Registration Open  
8 - 10:45 am ..... Conference Education  
11 am - 1:15 ..... Keynote Address/Annual Meeting/Lunch  
1:30 - 6 pm ..... SAFE Silent Auction  
1:30 - 6:30 ..... Exhibit Hall Open/Receptions/  
Meet the Experts - **New**  
2 - 4:30 pm ..... Student Challenge

## Fri., Jan. 25

7 - 8 am ..... Continental Breakfast  
7 - 9 am ..... Past President's Breakfast  
7 - 11 am ..... Registration Open  
8 - 10 am ..... Conference Education  
8 - 10 am ..... Dotmocracy - **New**  
10 am - 12:30 ..... SAFE Silent Auction  
10 am - 1 pm ..... Exhibit Hall Open/Lunch/Meet the Experts - **New**  
1 - 5 pm ..... Seminar on Wheels  
1:30 - 2:30 ..... Fun Run/Walk  
1:30 - 3 pm ..... Conference Education  
6:30 - 10 pm ..... Awards Reception & Banquet

## Sat., Jan. 26

8 am - 1 pm ..... ASBA Certification Exam

## Thank you to our sponsors!

SAFE and STMA appreciate the support and commitment of our Conference sponsors.  
Please take a moment in the Exhibition Hall to thank these companies.







*The Student Challenge is Thursday, January 24*

## Continued from page 13

### International Attendees

STMA welcomes International attendees and invites you to a special reception in your honor on Wed., Jan. 23, 6 - 7 pm. Be sure to wear your International ribbon for admittance.

*Sponsored by Atlas Turf, Platinum TE, Pure Seed, Sod Solutions*

### New Members - Free Registration

Nonmembers or former members who have not been a member since the year 2000 are eligible for a FREE Conference Registration. Go to STMA.org to join as a new, first-time member. STMA will accept only on-line membership and conference registrations for this offer.

### Photography Permission

A professional photographer will be documenting conference events. By registering for the conference, you give permission for STMA to use all photos with your likeness.

### Social Media

Follow us at @FieldExperts on Twitter, Instagram and Facebook. Use #STMA2019 in all of your tweets or posts about the conference.

### Student Activities

#### ■ Student Networking

**Wed., Jan. 23, 5:15 - 6 pm**

Gather with students from other universities to discuss trends, issues, and career aspirations.

#### ■ Student Challenge

**Thurs., Jan. 24, 2 - 4:30 pm**

#### ■ Student Luncheon

**Fri., Jan. 25, 12 - 1 pm**

Join your fellow student members and network with sports field managers. Winners of the Student Challenge will be announced immediately following lunch at the Hunter Industries booth.

### Weather

The average high and low temperatures in Phoenix are 68 and 46 degrees, respectively.

## Event Highlights

**Wed., Jan. 23**

**8 - 9:30 am**

**Opening General Session - Sports Turf Talk Show**

*Hosted by Thomas Nikolai, Ph.D. - Michigan State University, Brandon Horvath, Ph.D. - University of Tennessee and John Sorochn,*

*Ph.D. - University of Tennessee. Guests Include: Gregory Elliott, Jessie Pritchard, CSFM, Abby McNeal, CSFM, CPRP*

Kick off the STMA Conference with an interactive discussion where our hosts will interview sports turf managers from across the nation. Structured like a late-night talk show, turfgrass experts will sit down and share how they achieve customer satisfaction while still providing safe, high performance athletic surfaces.

**2 - 3:15 pm**

### Chapter Leadership Training

All chapter board members are invited to hear five chapters present on chapter programs that worked and those that didn't work. The training will conclude with an interactive Q&A session.

*Chapter Network Sponsored by Hunter Industries, John Deere, Turface Athletics*

*Event Sponsored by the Southeast Regional Sports Turf Conference*

**5:15 - 6 pm**

### Networking Sessions

Join your peers for interactive discussion about the challenges and rewards you find in your job. Promotion of, or discussion about, commercial products, services or equipment is prohibited.

**6 - 7 pm**

### First Timers/International Attendees/CSFM Reception (ribbon required)

Wear your specific ribbon for attendance at this networking reception as STMA welcomes its first time and international attendees. Expanded this year, it also includes CSFMs.

*Sponsored by Atlas Turf, Platinum TE, Pure Seed, Sod Solutions*

**7 - 7:30 pm**

### SAFE Live Auction - NEW TIME

Support the SAFE foundation by bidding on exclusive sports field management equipment and products, and highly desired technology and





## 2018 STMA Conference & Expo

sports memorabilia. For a list of items, check back frequently at [STMA.org](http://STMA.org).

### 7:30 - 10 pm

#### Welcome Reception

Reconnect with old friends and meet new ones at this heavy hors d'oeuvres event. Drink ticket included.

*Sponsored by The Toro Company and Covermaster*

### Thurs., Jan. 24

### 11 am - 1:15 pm

#### Keynote Address/Annual Meeting and Lunch

**Speaker: Jeff McManus – Author and Director of Landscape Services at the University of Mississippi**

Jeff will be presenting his philosophy on “How to Grow Weeders into Leaders.” Highlighting how strategy and organization can ultimately help GROW the talent you have to get the leaders you need. Meet your new Board of Directors and enjoy lunch.

*Sponsored by World Class Athletic Surfaces*

### 1:30 - 6:30 pm

#### Exhibition & Silent Auction (Dessert & Late afternoon reception)

Meet with distributors, company representatives and product developers to see the latest industry equipment, products and services. Take advantage of informal education on the show floor at Meet the Experts where you can speak with academics in a Q&A roundtable format. SAFE will also be holding its annual fundraiser, the Silent Auction.

*Silent Auction Sponsored by Pioneer Athletics*

### Fri., Jan. 25

### 10 am - 1 pm

#### Exhibition & Silent Auction (Lunch)

See details in Thursday's listing.

### 6:30 - 10 pm

#### STMA Awards Reception & Banquet

Enjoy a reception and then an elegant dinner immediately followed by the awards program, which honors notable contributions to the industry. RSVP is



*STMA's Annual Meeting is at 11 am January 24*

required. Coat and tie and comparable attire for women is preferred.

*Awards Program sponsored by Carolina Green, Hunter, Precision Laboratories and World Class Athletic Surfaces*

## Conference Tracks 2019

### TURFGRASS MANAGEMENT

*Sponsored by Brandt Consolidated*

### Wed., Jan. 23

### 9:45 - 10:45 am

#### Carbon Fertilization: Snake Oil or the Next Big Thing?

Bryan Hopkins, Ph.D.

### 11 am - 12 pm

#### Agronomic Assessment for Sports Fields: Future Implications for Risk Assessment

Kristie Walker, Ph.D.

### 11 am - 12 pm

#### Healthy Soil, Healthy Turf

Gregg Munshaw, Ph.D.

### 3:30 - 5 pm

#### Plant and Soil Interactions for Athletic Fields

Nick Christians, Ph.D. and Adam Thoms, Ph.D.

### 3:30 - 5 pm

#### The Impact of Frazee Mowing on Overseeding

Kyley Dickson, Ph.D. and Gregg Munshaw, Ph.D.

### Thurs., Jan. 24

### 8 - 9:15 am

#### Stadium Turfgrass Shade Management

Dan Bergstrom, CSFM

### 8 - 9:15 am

#### Back to Basics: Improving the Soil Physical Properties of Highly Trafficked Turfgrass

Andrew McNitt, Ph.D.

### 8 - 9:15 am

#### Competition Kills

Michael Goatley, Ph.D.

### 9:30 - 10:45 am

#### Development of a Topdressing Program for Athletic Field Managers

Nick Christians, Ph.D. and Adam Thoms, Ph.D.

### 9:30 - 10:45 am

#### Back to Basics: Understanding Soil Fertility and Soil Testing Results

Bill Kreuser, Ph.D.





## 2018 STMA Conference & Expo



Attendees at last year's First Timers & International Attendees Reception

### Fri., Jan. 25

1:30 - 3 pm

**Healthy Soil, Healthy Turf**  
Gregg Munshaw, Ph.D.

### FACILITY MANAGEMENT

### Tues., Jan. 22

1:15 - 5 pm

**Educational Demonstrations at Tempe Diablo Stadium Complex**  
Dr. David Kopeck and Kai Umeda

### Wed., Jan. 23

9:45 - 10:45 am

**Tackling Traffic: Reducing Traffic on Multi-Use Fields**  
Marc Moran, CSFM

9:45 - 10:45 am

**Budgeting for Your Facility**  
Rebecca Auchter, CSFM

3:30 - 5 pm

**One Field, One Season: Maintaining Kenan Stadium**  
Casey Carrick, CSFM and Chad Price, CSFM, CFB

### Thurs., Jan. 24

8 - 9:15 am

**Event Management: Developing a Landscape Protection Program**  
Michael Stachowicz

### Fri., Jan. 25

1:30 - 3 pm

**Tackling Traffic: Reducing Traffic on Multi-Use Fields**  
Marc Moran, CSFM

### SYNTHETIC

### Wed., Jan. 23

9:45 - 10:45 am

**Synthetic Turf = "Zero Maintenance??"**  
Jeremy Tredway

11 am - 12 pm

**Synthetic Athletic Fields Through the Seasons**  
Jason DeMink, CSFM

### Thurs., Jan. 24

9:30 - 10:45 am

**Alternative Infills and Maintenance of Synthetic Turf**  
Dan Strunk, Ph.D.

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# 2018 STMA Conference & Expo

## PEST CONTROL

### Wed., Jan. 23

9:45 - 10:45 am

Measure Twice, Apply Once:  
Practical Reductions in Pesticides  
and Fertilizers  
Ryan DeMay

2 - 3:15 pm

Advanced Weed Control for Athletic  
Field Turf  
Jim Brosnan, Ph.D. and Gerald Henry, Ph.D.

3:30 - 5 pm

Turf and Weedy Grass Identification  
for the Sports Turf Manager  
Tony Koski, Ph.D. and Alison  
O'Connor, Ph.D.

### Thurs., Jan. 24

9:30 - 10:45 am

Know Your Audience: Strategies  
for Discussing Pest Management  
Jim Brosnan, Ph.D.

## PROFESSIONAL DEVELOPMENT

*Sponsored by John Deere*

### Wed., Jan. 23

9:45 - 10:45 am

Getting a Seat at the Table  
Jim Speelman, CSFM

11 am - 12 pm

Don't Say the "M" Word: Math  
Samuel Doak

2 - 3:15 pm

Positive Coaching for Sports Turf  
Managers, Part 2 (Self-Care)  
Josh McPherson, CSFM

2 - 3:15 pm

COTS

3:30 - 5 pm

Experiential Storytelling  
Joel White

**"The STMA  
organization  
continues to be the  
best resource all  
around for anyone  
involved in turf  
management."**

*Nicole Andrews, Matrax, Inc.*

### Thurs., Jan. 24

8 - 9:15 am

Mentoring/Training the Next  
Generation of Sports Turf  
Managers  
Tim VanLoo, CSFM

9:30 - 10:45 am

Elevate Your Value Through PR and  
Social Media!  
Tomas Silvani and Glenn Gray

11 am - 12 pm

Keynote Presentation - How to Grow  
Weeders Into Leaders  
Jeff McManus

### Fri., Jan. 25

8 - 10 am

Career Development Panel  
Allen Johnson, CSFM, Sun Roesslein,  
CSFM and Tim VanLoo, CSFM

1:30 - 3 pm

Positive Coaching for Sports Turf  
Managers, Part 2 (Self-Care)  
Josh McPherson, CSFM

## WATER

### Wed., Jan. 23

11 am - 12 pm

Irrigation Renovation and  
Troubleshooting Strategies  
Ashley Wilkinson

2 - 3:15 pm

Smart Irrigation - Navigating the  
Market for your Facility  
Ben Polimer

3:30 - 5 pm

Irrigation Water Testing and Interpretation:  
Case Studies from the Field  
Charles Fontanier, Ph.D. and Justin  
Quetone Moss, Ph.D.

## INDUSTRY DEVELOPMENTS

### Wed., Jan. 23

8 - 9:30 am

Opening General Session - Sports  
Turf Talk Show  
Thomas Nikolai, Ph.D., Brandon Horvath,  
Ph.D. and John Sorochoan, Ph.D.

11 am - 12 pm

New Trends and Technology in  
Sports Turf  
Representatives from STMA  
Commercial Companies

2 - 3:15 pm

Using Drones in Your Sports Field  
Management Program  
Tanner Delvalle and Caleb Clements

2 - 3:15 pm

New Technologies in Sports Field  
Sod Production, Installation and  
Maintenance  
Ross Kurcab, CSFM

### Thurs., Jan. 24

8 - 9:15 am

Performance of Hybrid Grass Systems  
Kyley Dickson, Ph.D. and John  
Sorochoan, Ph.D.

9:30 - 10:45 am

Performance Testing and Player Safety  
Gerald Henry, Ph.D.

### Fri., Jan. 25

8 - 10 am

University Research Update  
Academics from various Universities





Seminar on Wheels Tours on Tuesday, Jan. 22 & Friday, Jan 25

8 - 10 am

**Dotmocracy**

Jeremy Tredway

**BASEBALL**

**Wed., Jan. 23**

2 - 3:15 pm

**Practitioners Guide to Managing Infield Skin Surfaces**

Joseph Potrikus, CSFM

**Fri., Jan. 25**

8 - 10 am

**Baseball Panel Discussion**

Andy Gossel, Matt Neri and John Turnour

## 2019 STMA Conference Education Session Information

**Tues., Jan. 22**

1:15 - 5 pm

**Educational Demonstrations at Tempe Diablo Stadium Complex**

**Speakers: Dr. David Kopec and Kai Umeda - The University of Arizona**

Get offsite and outside with educational demonstrations at the Tempe Diablo Stadium Complex. New for 2019, pre-conference education will offer attendees the opportunity to experience various sports turf management practices in action. Attendees will rotate through five stations where they can interact with their peers and learn how to improve field operations. Stations will include sprayer calibration, sprayer nozzle selection, using instruments to measure soil conditions, field painting, and infield maintenance.

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## 2018 STMA Conference & Expo

**Wed., Jan. 23**

**8 - 9:30 am**

**Opening General Session - Sports Turf Talk Show**

*Hosted by Thomas Nikolai, Ph.D. - Michigan State University, Brandon Horvath, Ph.D. - University of Tennessee and John Soroachan, Ph.D. - University of Tennessee*

Kick off the STMA Conference with an interactive discussion where our hosts will interview sports turf managers from across the nation. Structured like a late-night talk show, turfgrass experts will sit down and share how they achieve customer satisfaction while still providing safe, high performance athletic surfaces.

**9:45 - 10:45 am**

**Carbon Fertilization: Snake Oil or the Next Big Thing?**

*Speaker: Bryan Hopkins, Ph.D. - Brigham Young University*

Carbon fertilizer has recently taken a prominent place in the fertilizer world. The focus of this presentation will be to teach fundamentals of carbon as a nutrient and discuss research and experience with these types of fertilizers.

**Tackling Traffic: Reducing Traffic on Multi-Use Fields**

*Speaker: Marc Moran, CSFM - Atlee High School*

This presentation focuses on techniques used at Atlee High School to reduce traffic while working within a tight budget. Education, communication channels, traffic rotation plans and innovative field layouts have allowed for reduced traffic and wear in high traffic areas. These techniques have allowed us to work within a tight financial structure and still provide STMA FOY caliber fields.

**Synthetic Turf = "Zero Maintenance??"**

*Speaker: Jeremy Tredway - Indiana University (Bloomington)*

This presentation will focus on the basic maintenance practices performed on 12 acres of synthetic surfaces. Discussing synthetic turf surface monitoring,

**"The STMA Conference is the must-attend event for professionals in the athletic field industry. I have attended it for 20 years, and the knowledge I have gained through the years networking and attending seminars has been invaluable. Real ideas and solutions that have saved our university significant dollars."**

*Amy Fouty, CSFM*

logging maintenance and ways to prolong synthetic life will provide a first-hand account of how synthetic turf maintenance is not "zero maintenance".

**Measure Twice, Apply Once: Practical Reductions in Pesticides and Fertilizers**

*Speaker: Ryan DeMay - Columbus Recreation and Parks Department*

Integrated Turf Health Management (ITHM) focuses on the whole turfgrass system to reduce inputs and environmental impacts. The presentation will discuss current environmental regulations related to pesticide and fertilizer limitations, bans, or exclusions and how to respond appropriately. Attendees will be able to apply effective strategies to develop low input performance and maintenance standards.

**Getting a Seat at the Table**

*Speaker: Jim Speelman, CSFM - Hope College*

This session will encourage turf managers to claim their 'seat at the

table'. The 'table' is any meeting about athletic field construction or renovation. This talk will increase the confidence and competence you bring to the table and help avoid complacency at the table.

**Budgeting for Your Facility**

*Speaker: Rebecca Auchter, CSFM - Franklin Park Boro*

Ultimately, a sports turf or grounds management program must be funded to succeed. This presentation focuses on the 3 primary categories of budgeting: The Turf Program, Equipment and Personnel. Detailed examples will show sports turf managers how to justify both operational and capital budgets.

**11 am - 12 pm**

**Agronomic Assessment for Sports Fields: Future Implications for Risk Assessment**

*Speaker: Kristie Walker, Ph.D. - University of Minnesota Crookston*

The most difficult turfgrass areas to manage are sports fields due to traffic they receive by players. Sports played on turfgrass can result in injury to players due to diminished field conditions. We will explore the agronomic properties that should be included in field maintenance assessments to reduce player injuries.

**Don't Say the "M" Word: Math**

*Speaker: Samuel Doak - Virginia Tech*

This presentation will provide a hands-on approach to basic fertilizer, topdressing and control agent calculations. Short cuts and money saving methods will also be discussed. Bring a phone calculator for practice and practical problems.

**Irrigation Renovation and Troubleshooting Strategies**

*Speaker: Ashley Wilkinson - Horry-Georgetown Technical College*

This seminar will offer current trends for irrigation system renovations as well as specialty topics to assist the turf manager with cost effective irrigation repair and maintenance.





## Healthy Soil, Healthy Turf

**Speaker: Gregg Munshaw, Ph.D. - University of Kentucky**

This seminar will define soil health and explore what it means for turfgrass soils. We will discuss poor soils and how to improve them, as well as determine what we should be managing for in healthy soils. Great turf managers have their fingers on the pulse of what is going on in their soil - learn why healthy soil often equates to healthy turf.

## New Trends and Technology in Sports Turf

**Speakers: Representatives from STMA Commercial Companies**

After a two-year hiatus, this popular session is back! Ten of STMA's commercial companies have been selected to give a five-minute presentation to introduce and explain the benefits of a new or improved product or service currently available to sports turf managers.

## Synthetic Athletic Fields Through the Seasons

**Speaker: Jason DeMink, CSFM - University of Michigan Athletics**

This presentation will focus on the year-round maintenance of synthetic athletic fields. The challenges of preparing for and surviving high game volume will be emphasized. Special considerations for the northern climate will also be discussed.

**2 - 3:15 pm**

## Advanced Weed Control for Athletic Field Turf

**Speakers: Jim Brosnan, Ph.D. - University of Tennessee and Gerald Henry, Ph.D. - University of Georgia**

This presentation will teach attendees the importance of indicator weeds within a field, as well as emphasize the integration of cultural and chemical practices for weed management in athletic fields. Attendees will learn why implementing these weed management programs is a critical

step towards maximizing athletic field safety and playability while reducing potential for herbicide resistance.

## Practitioners Guide to Managing Infield Skin Surfaces

**Speaker: Joseph Potrikus, CSFM - Greener World Athletic Turf Services**

This session will identify numerous issues with skinned infield surfaces that usually start with poor maintenance practices. Proper field layout, minimizing the formation of lips and routine grooming and maintenance tips for infield surfaces will all be addressed.

## Smart Irrigation- Navigating the Market for your Facility

**Speaker: Ben Polimer - Town of Weston**

Smart Irrigation systems are becoming more popular to increase irrigation efficiency. This

presentation will discuss developing a smart controller retrofit plan that works for you. Discussion points will be: identifying features you want/need, site assessments, feasibility and system integrity. We will also discuss a case study at a sports turf facility.

## Positive Coaching for Sports Turf Managers, Part 2 (Self-Care)

**Speaker: Josh McPherson, CSFM - University of Missouri**

After presenting "Positive Coaching for Sports Turf Managers" the last two years, many people wanted to talk about how to take care of themselves. Many sports turf managers are very stressed from the work, the hours and the dwindling budgets. This lifestyle is taking a toll on their health, relationships and daily lives. This presentation will help teach



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techniques to become your best self every day.

### Using Drones in Your Sports Field Management Program

**Speakers:** *Tanner Delvalle - Penn State University and Caleb Clements - Blue Valley School District USD 229*

This presentation will outline the basics of obtaining a remote pilot license, guidelines for flying legally, equipment available and the types of cameras used. The presentation will also outline a strategy for “selling” the idea to administration or owners on the value and potential cost-saving information that can be gathered from small unmanned aircraft systems (sUAS).

### New Technologies in Sports Field Sod Production, Installation and Maintenance

**Speaker:** *Ross Kurcab, CSFM - Championship Sports Turf Systems*

This presentation will examine the current state of the art commercial sod production for sports fields from both the field manager’s point of view and the end user and explore ways to ensure that your fields can make it to the finish line with a quality surface for the entire season.

### COTS

Chapter leaders will hear real-world presentations from five chapters about programs that worked and didn’t work and then have a full audience Q&A on burning questions.

### 3:30 - 5 pm

#### Plant and Soil Interactions for Athletic Fields

**Speakers:** *Nick Christians, Ph.D. and Adam Thoms, Ph.D. - Iowa State University*

This presentation will explain what your soil tests mean and how much of each nutrient is needed for healthy turfgrass. It will cover both macro- and micro-nutrients and what those nutrients do in the plant. Soil and tissue tests will be reviewed.

### Turf and Weedy Grass Identification for the Sports Turf Manager

**Speakers:** *Tony Koski, Ph.D. and Alison O’Connor, Ph.D. - Colorado State University*

Accurate identification of turf and weedy grass species can be difficult but is essential both for making wise management decisions for desirable turfgrass and to use pesticides safely and legally. For weedy grasses, correct identification allows you to choose herbicides that will provide the best control.

### The Impact of Frazee Mowing on Overseeding

**Speakers:** *Kyley Dickson, Ph.D. - University of Tennessee and Gregg Munshaw, Ph.D. - University of Kentucky*

The presentation will discuss the impacts of frazee mowing on establishment and removal of ryegrass overseeded in bermudagrass. Focus will be on a comparison of frazee mowing to other cultural practices for ryegrass overseeding establishment as well as spring removal of overseeded ryegrass using a frazee mower compared to chemical transitions.

### One Field, One Season: Maintaining Kenan Stadium

**Speakers:** *Casey Carrick, CSFM - University of North Carolina and Chad Price, CSFM, CFB - Carolina Green Corp.*

This presentation will cover the decision to keep natural grass in Kenan Stadium during the renovation of the current practice facility. It will cover the different options for the playing surface, how the decision was made and the financial impact on the Athletic Department.

### Irrigation Water Testing and Interpretation: Case Studies from the Field

**Speakers:** *Charles Fontanier, Ph.D. and Justin Quetone Moss, Ph.D. - Oklahoma State University*

This presentation will cover the basics of turfgrass irrigation water quality testing and interpretation. In addition,

we will discuss real-world examples and case studies using irrigation water testing reports from six sports complexes across the United States using reports from several different irrigation water testing labs.

### Experiential Storytelling

**Moderated by Joel White**

This new education format is all about the triumphs, challenges, innovations and failures you as sports turf managers face every day. Nothing is off the table in this moderated session where attendees can share best practices, overcoming adversity when something went horribly wrong, and success stories. Come prepared to learn, laugh and connect on common issues with your peers.

### 5:15 - 6 pm

#### STMA Networking Sessions

Meet with your peers during this formalized networking session. Each category of membership meets separately to share issues and practical solutions.

### Thurs., Jan. 24

### 8 - 9:15 am

#### Stadium Turfgrass Shade Management

**Speaker:** *Dan Bergstrom, CSFM - BBVA Compass Stadium*

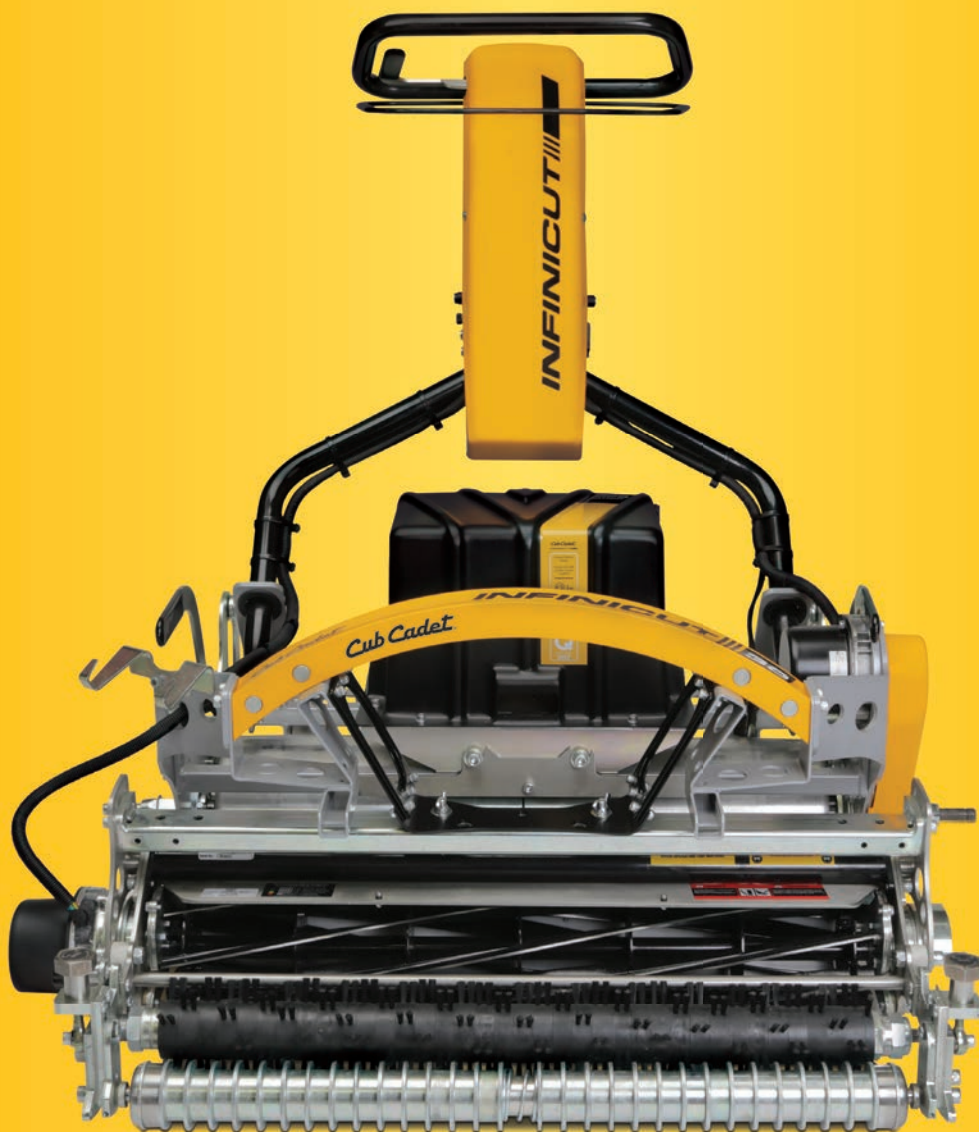
Managing turfgrass in the heavily shaded areas of your stadium can be quite a challenge. This topic will cover ideas ranging from basic to complex relating to the different ways sports turf managers can strategize around a shade issue. Tips including turfgrass selection, mowing, irrigating, fertilizing, supplemental light and day-to-day decision-making will be discussed.

#### Event Management: Developing a Landscape Protection Program

**Speaker:** *Michael Stachowicz - National Park Service*

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## 2018 STMA Conference & Expo

events on turfgrass. The ability of a facility to host a concert one night and a sports event the next day is becoming a key to the economic success of a facility. This presentation helps provide the framework for turf managers to develop their own landscape protection program.

### Performance of Hybrid Grass Systems

**Speakers:** *Kyley Dickson, Ph.D. and John Sorochan, Ph.D. - University of Tennessee*

This presentation will focus on the performance of hybrid grass systems and their management. An overview of the installation and construction of each type of hybrid system, an in-depth analysis of hybrid system performance in both bermudagrass and Kentucky bluegrass, as well as the management techniques for optimal performance will all be addressed.

### Mentoring/Training the Next Generation of Sports Turf Managers

**Speaker:** *Tim VanLoo, CSFM - Iowa State University*

The future of our profession hinges on the next generation of sports turf managers. Many of us hold the key to proper perspective, work ethic and professionalism. By embracing change, taking the time to relate to young people and understanding that their upbringing had different influences, we can be instrumental in the development of the next generation of Sports Turf Managers.

### Back to Basics: Improving the Soil Physical Properties of Highly Trafficked Turfgrass

**Speaker:** *Andrew McNitt, Ph.D. - Penn State University*

This presentation will review the basics of soil physics as it relates to both sand and native soil sports fields. The desirable soil physical properties required for turfgrass vitality in a sand rootzone requires cultural practices that continually improve soil texture to maximize physical properties, while in native soil rootzones, you want to



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constantly build soil structure. These issues and strategies will be discussed 'from the ground up' in this back to basics session.

### Competition Kills

**Speaker:** *Michael Goatley, Ph.D. - Virginia Tech*

A sports turf manager is constantly striving for the thickest, most dense playing surface possible. While that remains of utmost importance for playability and safety, it is also important to understand that at some point your turfgrass will literally be competing against itself. This presentation considers how we achieve an appropriate balance between a dense canopy and a healthy stand of turfgrass.

**9:30 - 10:45 am**

### Know Your Audience: Strategies for Discussing Pest Management

**Speaker:** *Jim Brosnan, Ph.D. - University of Tennessee*

Public pressure regarding pesticide use has increased in certain areas to the extent that many athletic field managers are prohibited from using pesticides altogether. Many feel comfortable discussing the merits of pesticide use to others within

the industry but fail to confidently discuss this topic with the public. This presentation will provide athletic field managers training on how to discuss pesticide use with those outside the green industry.

### Performance Testing and Player Safety

**Speaker:** *Gerald Henry, Ph.D. - University of Georgia*

Performance testing of sports fields is necessary to quantify surface properties such as hardness and traction. Sensor/sampling technology can create spatial maps that depict variability of soil and plant parameters. Information generated from sensors/samplers can be used to adjust irrigation systems, implement site-specific management, rotate fields, determine optimal playing conditions, justify equipment use/purchase and better understand the influence of field conditions on player safety.

### Development of a Topdressing Program for Athletic Field Managers

**Speakers:** *Nick Christians, Ph.D. and Adam Thoms, Ph.D. - Iowa State University*

Proper topdressing and cultivation of athletic fields can greatly impact athletic field performance of both native-soil and



**“[The conference] is a great opportunity to network with sports turf managers from around the world about current topics in our industry, to learn the best techniques for managing your facilities from expert speakers and attend professional development opportunities to improve everyone who attends.”**

*Roger Weinbrenner, CSFM*

sand-based athletic fields. This presentation will cover many of the basics of what type of cultivation methods to use and when, as well as how much sand topdressing is necessary to keep athletic fields performing at their highest level.

#### **Elevate Your Value Through PR and Social Media!**

**Speakers: Tomas Silvani and Glenn Gray - Buffalo.Agency**

Effective communication tactics coupled with sound policy measures serve as the prescription to increase your recognition within your company and turn your employers into your biggest advocates. This presentation will discuss how public relations and social media are used to communicate your story and promote your athletic surfaces.

#### **Back to Basics: Understanding Soil Fertility and Soil Testing Results**

**Speaker: Bill Kreuser, Ph.D. - University of Nebraska-Lincoln**

Soil test reports and fertilization programs are often needlessly confusing. This seminar will focus on the nutrients that are really important and explain which nutrients are rarely important agronomically. Attendees will also learn how to develop an effective and affordable fertilization program.

#### **Alternative Infills and Maintenance of Synthetic Turf**

**Speaker: Dan Strunk, Ph.D. - University of Tennessee**

This presentation will discuss infill materials that can be used in place of traditional crumb rubber. It will also describe performance characteristics of these alternative infills and the effects on maintenance and maintenance intervals.

**11 am - 12 pm**

#### **Keynote Presentation - How to Grow Weeders Into Leaders**

**Speaker: Jeff McManus - University of Mississippi**

Most organizations can't pay for the talent they want, but with the right strategy most organizations can GROW the talent they have to get the leaders they need. Leadership is the art of motivating a group of people to act towards achieving a common goal.

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Leadership is a mindset. It begins with aligning the work to a vision of greatness, resiliency, opportunity and wisdom, and then developing an environment based on trust, communication, respect and credibility. Jeff takes the audience on a tour of Leadership Basics, developing a culture of accountability, and encouraging and recognizing the talent within our organizations and ourselves.

### Fri., Jan. 25

8 - 10 am

#### Career Development Panel

**Speakers:** *Allen Johnson, CSFM - Green Bay Packers, Sun Roesslein, CSFM - North Area Athletic Complex/ Jeffco Schools Athletics and Tim VanLoo, CSFM - Iowa State University*

Overcome the unknowns of taking the CSFM exam, submitting a Field of the Year (FOY) application, and applying for Environmental Facility Certification by attending this session. Bring your questions and learn more about how to elevate your career with the certification and awards programs that STMA has to offer. Panelists have first-hand experience preparing for and taking the CSFM exam, as well as evaluating and submitting applications for the FOY award and Environmental Facility Certification.

#### Baseball Panel Discussion

**Speakers:** *Andy Gossel - Covenant Christian High School, Matt Neri - State College Spikes Baseball and John Turnour - Washington Nationals*

Sports turf managers from across the country will share the various management strategies they utilize to maintain baseball fields. After a brief introduction from each panelist, attendees will have the opportunity to ask questions and discuss challenges and solutions related to baseball fields and facilities.

#### University Research Update

**Speakers:** *Academics from various Universities*

Turfgrass faculty from across the United States will present the current sports field research occurring at their

**“Coming from a country where football (soccer) and rugby are really big and popular sports, the STMA Conference & Show provides the best opportunity to stay updated about the latest technologies and management practices, while networking with fellow turf specialists from around the world. In Argentina we are on the verge of rebuilding our fields and stadiums, so attending this event is being at the right time in the right place.”**

*Sebastián Ruggeri,  
President, ProField S.A.*

university. Come with questions and learn about current research projects and the latest research results that could improve your field.

#### Dotmocracy

**Moderated by** *Jeremy Tredway*

This session will brainstorm a variety of topics from industry problems to hot topics. Each topic will be taped to the wall and attendees will vote on the topics they wish to discuss during the session by putting a colored dot sticker on that topic. The highest rated topics will be addressed.

1:30 - 3 pm  
**Repeat Sessions**

**Tackling Traffic: Reducing Traffic on Multi-Use Fields**

**Speaker:** *Marc Moran, CSFM - Atlee High School*

This presentation focuses on techniques used at Atlee High School to reduce traffic while working within a tight budget. Education, communication channels, traffic rotation plans and innovative field layouts have allowed for reduced traffic and wear in high traffic areas. These techniques have allowed us to work within a tight financial structure and still provide STMA FOY caliber fields.

#### Healthy Soil, Healthy Turf

**Speaker:** *Gregg Munshaw, Ph.D. - University of Kentucky*

This seminar will define soil health and explore what it means for turfgrass soils. We will discuss poor soils and how to improve them, as well as determine what we should be managing for in healthy soils. Great turf managers have their fingers on the pulse of what is going on in their soil - learn why healthy soils often equates to healthy turf.

#### Positive Coaching for Sports Turf Managers, Part 2 (Self-Care)

**Speaker:** *Josh McPherson, CSFM - University of Missouri*

After presenting “Positive Coaching for Sports Turf Managers” the last two years, many people wanted to talk about how to take care of themselves. Many sports turf managers are very stressed from the work, the hours and the dwindling budgets. This lifestyle is taking a toll on their health, relationships, and daily lives. This presentation will help to teach techniques to become your best self every day.

### Optional Offsite Events

### Mon., Jan. 21

1 - 6 pm

#### Volunteer Field Rebuild - NEW

Come to Phoenix early! STMA has partnered with Project Evergreen to renovate a baseball field in Phoenix Parks Department. All members are





invited to participate, but registration is required. Transportation, products and materials will be provided.

## Tues., Jan. 22

7 am - 4 pm

### Full Day Seminar On-Wheels

Sponsored by Bush Turf

**University of Phoenix Stadium** - home of 2 Super Bowls, 2 National Championships and the annual Fiesta Bowl

At this first stop, you will tour the stadium field outside where it typically "lives" and hear about the challenges and advantages of a moveable field including how the grass has evolved and pushed over 13 seasons. Inside the stadium you'll see where the field "lives" on game day, learn about the differences in a stationary field. Lastly, you'll see the "shop" with its tools and equipment.

### Dodgers/White Sox Training facility at Camelback Ranch

The next stop is a state-of-the-art baseball facility like no other: Camelback Ranch, the Spring Training home of the Los Angeles Dodgers and Chicago White Sox. Located on 141 acres, this Sonoran Desert-inspired, two-team facility offers baseball fans more than top-quality playing fields and facilities; the site also features walking trails, landscaped grounds and an orange grove. Participants will also see water features and the fully stocked lake between the Dodgers and White Sox facilities.

### Arizona State University

The tour will end at ASU's \$300 million newly renovated Sun Devil Stadium and football training facility. Tour participants will get an up-close-and-personal look of the overseeded Tifway 419 bermudagrass playing surface, weight room, locker room, and other football amenities.

7 am - 4 pm

### SAFE Fundraiser: Golf Tournament

Sign up as a team or as an individual and join us for a game of golf at Grand Canyon

University Golf Course, home to expansive stretches of green turf and picturesque terrain in its 7,200 yards. The course features new tee boxes, challenging greens, extended fairways, enhanced bunkers, updated practice facilities and a 10,000-square-foot clubhouse including a restaurant and bar. First, Second and third place winners will receive prizes. Pricing will be \$135 per person, with clubs, food and drink ticket included. Proceeds benefit SAFE's scholarship, grant and research programs.

Co-Title Sponsor: Diamond Pro and Tri-Tex Grass, Drink Sponsor: Carolina Green

6 - 9 pm

### SAFE Fundraiser: Bowling

Celebrating five years, SAFE will be holding its bowling event at Brunswick Zone Desert Sky Lanes. Join your chapter members or other friends and bowl as teams or as an individual. Win prizes and join in on

crazy-fun bowling games! Cost is \$75 and includes transportation, dinner and drinks. Proceeds benefit SAFE's scholarship, grant and research programs.

Drink Sponsor: Beacon Athletics

## Fri., Jan. 25

1 - 5 pm

### Seminar on Wheels

Sponsored by Bush Turf

### Sloan Park & Riverview Park

Sloan Park, the Spring Training home of the Chicago Cubs, and Riverview Park were opened in the Spring of 2014 in a cooperative effort between the City of Mesa, Arizona and the Chicago Cubs. With a capacity of approximately 15,000, Sloan Park and the Cubs have regularly set Spring Training attendance records for all Major League Baseball. The professional baseball complex is comprised of the stadium complex, a

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CoverSports is the manufacturer!

Actual sequence in same location

**November:** Season ended with less than 10% of turf cover.

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

**Spring:** Covers have been removed. (Uncovered turf still dormant)

- Protect turf from harsh winter conditions!
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## 2018 STMA Conference & Expo

70,000 sq. ft clubhouse, a 1-acre agility field, and 6 and a half practice fields. Riverview Park is located on the eastern half of the property and is operated by the City of Mesa. Riverview Park is a multi-use city park comprised of a 10-acre Seashore Paspalum soccer complex, a playground, a splash pad, and a 5.5-acre urban fishing pond which doubles as the site's irrigation water supply for both complexes.

The next stop will be Salt River Fields at Talking Stick, MLB spring training home to the Colorado Rockies and Arizona Diamondbacks. Opened in 2011, it is the first MLB spring training facility in the nation to be built on Indian land. Participants will tour the complex, which includes an 11,000-seat capacity ballpark and a total of 12 practice fields.

### On-Site Optional Events:

*Run/Walk, Women's Forum and  
Certification Testing*

#### Women's Forum and Lunch

*Wed., Jan. 23, 12 - 2 pm*

Now in its 12<sup>th</sup> year, all women at the conference are invited to hear a preview of Keynote Jeff McManus and enjoy lunch. Sponsored by Hunter Industries

#### Fun Run/Walk

*Wed., Jan. 23, 12:15 - 1:15 pm*

*Fri., Jan. 25, 1:30 - 2:30 pm*

Get outside and take an exercise break. Join the fun run/walk co-led by running enthusiast and STMA Board member Tom Nielsen and friends.

#### CSFM Testing – New Format!

Traditionally, the CSFM exam has been offered two times during the week of the Conference, in a written format. This year we will have a NEW online version of the CSFM Exams. Those who have prequalified to take the exam can sign up for a time slot nearly any time during the Conference that works with their schedule. Exam takers who do not pass all four sections of the exam may be able to retest on those



*Downtown Phoenix*

sections later in the week depending on availability. Pre-qualification and pre-registration is required by Dec. 1.

### On-Site Optional Events:

*Student Specific Activities*

#### Student Networking

*Wed., Jan. 23, 5:15 - 6 pm*

Gather with students from other universities to discuss trends, issues and career aspirations.

#### Student Challenge

*Thurs., Jan. 24, 2 - 4:30 pm*

Undergraduates in two- and four-year institutions are eligible to compete

in teams up to four people (graduate students are not eligible). Win \$5,000 for your school! Challenge participants receive FREE conference registration by competing. Pre-registration is required and can only be completed online at [STMA.org](http://STMA.org).

*Sponsored by Hunter Industries and Ewing*

#### Student Luncheon

*Fri., Jan. 25, 12 - 1 pm*

Join your fellow student members and network with sports field managers. Winners of the Student Challenge will be announced immediately following lunch at the Hunter Industries booth.





## Conference Registration Fees

**FULL Conference registration includes admission to all Education Sessions (except Optional Activates), the Welcome Reception, Awards Banquet, Trade Show and online access to the educational session recordings. Attendees will receive breakfast each day, two lunches, two receptions and dinner during the conference.**

***Fees - Register on line for the lowest fees at [STMA.org](http://STMA.org)***

Full Conference Registration	Online by 1/4/19
1 <sup>st</sup> Member from Facility	\$375
2 <sup>nd</sup> or more Member from same facility	\$325
NEW STMA Member	FREE
Non-Member or Chapter Only Member	\$505
Student National Member	\$100*
Student Non-national Member	\$250
<i>*Student members who participate in the Student Challenge receive FREE conference registration.</i>	
<b><i>Refer a sports turf manager for membership and receive a \$100 credit PER REFERRAL to be used for your renewal or conference fees.</i></b>	

One-Day Packages, either Wednesday, Thursday or Friday	\$150 ea. day
Trade Show Only Pass: 2 days - Wed. and Thurs.	\$50
Non-Industry Spouse/Companion Registration	\$150
Volunteer Field Rebuild: Monday 1 – 6 pm	FREE (Registration required)
Seminar on Wheels - full day	\$65
Seminar on Wheels - half day	\$35
SAFE TopGolf Tournament	\$135
SAFE Bowling Tournament	\$75
Additional Awards Banquet Tickets: Friday 6:30 pm	\$85



# 2018 STMA Conference & Expo

## Exhibitor Listings

### **ABI Sports Turf**

Mishawaka IN

**#101**

ABI Sports Turf designs and sells innovative sports turf products that produce safe and playable infields.

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

### **Act Global**

Austin TX

**#951**

Act Global is a world leader in synthetic turf technology with field installations in over 90 countries. Act Global is focused on designing surfaces that improve player safety and performance and is a FIFA Quality Licensee, preferred supplier for World Rugby, The International Hockey Federation and the United Soccer League.

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

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

Hilliard OH

**#223**

Advanced Drainage Systems, Inc., the largest manufacturer of HDPE drainage pipes, provides solutions for residential projects to highway drainage. With a product line that includes AdvanEDGE®, ADS PolyFlex™ and Nyloplast® products look no further than ADS for the best in sports field drainage solutions all designed to ensure maximum playability after the storm.

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

### **Aer-Flo, Inc.**

Cypress TX

**#1014**

Aer-Flo, Inc. manufactures unique sports covers, including patented Wind Weighted® Baseball Tarps and Bench Zone™ Sideline Turf Protectors.

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

### **Aeroform Athletics**

Kansas City MO

**#1144**

Aeroform Athletics is a manufacturer of high quality sporting goods products. We provide quality play at any level.

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

### **AerWay By Salford Group**

Salford Ontario Canada

**#808**

Salford Group manufactures and distributes the AerWay brand of high quality turf aeration products and the Valmar brand of fertilizer application products.

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

### **AgPro Technologies, Inc.**

Victor ID

**#120**

AgPro Technologies is a complete line of natural bio-stimulants proven to increase turf vigor and root mass. Easy to use and cost effective.

[www.agpro.me](http://www.agpro.me)

### **Air2G2 Machine/ GT Air Inject Inc.**

Jacksonville FL

**#637**

True aerification and oxygenation of turf soils.

[www.air2g2.com](http://www.air2g2.com)

### **The Andersons**

Maumee OH

**#404**

We provide the golf, sports turf, lawn, landscape, horticultural, and agricultural markets with some of the highest quality proprietary and blended products in the industry.

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

### **Anuvia Plant Nutrients**

Zellwood FL

**#902**

Anuvia Plant Nutrients is a company committed to creating innovative products for farmers, turf managers and homeowners while providing an invaluable service for municipalities and industry. In all that we do, it is our goal to address the three pillars of sustainability to help people, plants and the planet thrive. Our way is unique. Our way is new. We are Anuvia.

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

### **Aquatrols**

Paulsboro NJ

**#431**

Products that help to improve and maintain your root zone environment.

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

### **Arborjet/Ecologel Solutions, LLC**

Woburn MA

**#1141**

Manufacturer of a full line of plant health care products.

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

### **AstroTurf**

Dalton GA

**#1005**

Designer, manufacturer, installer and servicer of premium synthetic fields.

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

### **Avant Tecno USA**

Arlington Heights IL

**#901**

Avant offers a line of compact, multifunctional, articulating loaders and attachments. Their size, weight, maneuverability, range of attachments and versatility makes them unique with a specialized synthetic turf cleaner available.

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

### **Bannerman, Ltd**

Rexdale Ontario Canada

**#321**

Aeration equipment, large turf rollers, topdressing machines, infield groomers, wet and dry liners, overseeding equipment and stone barrier.

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

### **Barenbrug USA**

Tangent OR

**#821**

Barenbrug's innovative programs of research and turfgrass development are designed to provide varieties that afford the highest level of sports turf performance. Our RPR Regenerating Perennial Ryegrass and HGT Brand of wear tolerant Kentucky bluegrasses are recent top innovations in sports turf performance.

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

### **Baseline**

Petaluma CA

**#1114**

Baseline, a HydroPoint company, provides irrigation and water management solutions built on responsive technology.

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

### **Beacon Athletics**

Middleton WI

**#421**

Supplies soil amendments, field maintenance equipment, custom netting, padding, windscreens and more.

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

### **Belchim Crop Protection USA**

Wilmington DE

**#245**

Belchim Crop Protection USA introduces and commercializes novel, sustainable, and economical solutions for distributors, retailers, and end users in turf and ornamental markets.

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

### **Bernhard Company**

Rugby England

**#224**

A specialist in sports turf technology, Bernhard and Company is committed to providing leading turf health solutions for golf course and pitch care specialists worldwide. From blade sharpening systems to sports surface air movement and moisture control solutions and supplementary lighting solutions, the Bernhard product portfolio is focused on providing its global customer base with championship turf and world class playability.

[www.bernhard.co.uk](http://www.bernhard.co.uk)

### **Billy Goat Industries**

Lees Summit MO

**#445**

Billy Goat is a provider of specialty outdoor equipment such as sod cutters, overseeders, blowers, aerators and vacs.

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

### **BRANDT Consolidated Inc./ Grigg Brothers**

Springfield IL

**#701**

BRANDT is leading global manufacturer of specialty nutrients, adjuvants and colorants. The company currently offers three branded





## JOHN MASCARO'S PHOTO QUIZ

JOHN MASCARO  
IS PRESIDENT OF  
TURF-TEC  
INTERNATIONAL

////////

ANSWERS  
FROM  
PAGE 17

////////

When the Sports Turf Manager saw these quarter-sized clumps of soil on one of his soccer fields at this community park, he was trying to figure out what caused them. He quickly eliminated aerification cores as well as earthworms. There was no apparent damage to the turf, but the clumps were unsightly. The clump-producing culprits turned out to be Fall Army Worms tunneling into the high-sand content athletic field to lay their eggs. The local agricultural Extension agent also confirmed this finding. As it turns out, the Fall Army Worms like the dry sandy soils in Florida to lay their eggs. The larva pupates underground for 7 to 37 days in a cocoon they form of soil and silk. Once they emerge from the soil, the adults live for about 10 to 21 days and can eat enormous quantities of turfgrass, so the fields were treated with a Bifenthrin insecticide. The Sports Turf Manager has seen this type of activity before, but never in these types of numbers.

*Photo submitted by Joe Gasparini, CSFM, Program Manager at Orange County Parks & Recreation in Orlando, and Vice President of the Central Florida STMA (CFSTMA).*



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](mailto: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.

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## Exhibitor Listings 2018 STMA Conference & Expo

product lines in the turf market: GRIGG, BRANDT and BRANDT iHammer.

[www.brandt.co](http://www.brandt.co)

[www.grigg.co](http://www.grigg.co)

[www.brandtihammer.co](http://www.brandtihammer.co)

### Buffalo Turbine, LLC

Springville NY

#1116

Since 1945, Buffalo Turbine has used "Turbine Technology" with our vast number of blowers and sprayers.

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

### Bush Turf

Milan IL

#201

Bush Turf provides three dimensional field construction, renovation, and design.

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

### BWI Companies

Hurst TX

#122

Full line distributor of chemicals, fertilizers, seed, soil amendments and professional agronomic products.

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

### C & H Baseball, Inc.

Lakewood Ranch FL

#541

C & H Baseball is the industry's leader in new stadium construction netting and field equipment. Supplying and installing field wall padding, windscreen, barrier nets, batting tunnels and artificial turf. We have successfully become a "one-stop" shop for all of your stadium needs. The trusted name for over 50 years. #experience matters.

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

### Calcium Products, Inc.

Ames IA

#1007

Calcium Products is the industry's leading manufacturer and supplier of pelletized calcium based material, including SuperCal SO4, 98G and SuperCal Humic.

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

### Campey Imants USA

Macclesfield UK

#735 & 833

Campey Turf Care Systems is a forwarding-thinking UK company, which distributes sports turf renovation and maintenance machinery across the world.

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

### Carolina Green Corp.

Indian Trail NC

#517

Licensed sports field contractor specializing in the design, construction, renovation and maintenance of native or modified soil and sand based fields. Sod supplier including Gameon grass for immediate play.

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

### Corteva Agriscience

Tempe AZ

#1127

Discover, develop and market plant protection products for the green industry.

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

### Covermaster, Inc.

Rexdale Ontario Canada

#400

A leading supplier of baseball/football athletic field covers, mound and plate covers, turf growth blankets, turf protective systems and protective wall padding.

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

### CoverSports USA

Philadelphia PA

#317

Manufacturer of ball field covers, winter turf blankets, and stadium padding.

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

### Covia

Benton Harbor MI

#324

High purity silica sand for sports fields, synthetic turf, and recreational areas.

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

### Cub Cadet Specialty Turf/MTD Products

Indianapolis IN

#117

Our innovative products are what set us apart, from robotic greens mowers to the one of a kind Infinicut turf mower, explore how Cub Cadet is setting the standard for innovation that delivers.

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

### Dakota Peat & Equipment

Grand Forks ND

#907

Manufacturer of top dressing equipment and supplier of peat, blending and testing.

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

### Dennis & SISIS

Derbyshire UK

#945

Manufacturers of natural and synthetic sports field maintenance equipment.

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

### Diamond Pro

Arlington TX

#513

Provides groundskeepers nationwide a complete line of professional grounds keeping products and equipment.

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

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## **DryJect, Inc.**

Hatboro PA

**#420**

We are a patent aeration service with Service Centers that can amend your turf almost anywhere in the world. We also supply the new revolutionary Drainage PC system that can be installed into existing turf with minimal disruption.

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

## **DTN**

Burnsville MN

**#1112**

When it comes to weather, there's a lot on the line. Crowd safety. Team Security. Your bottom line. With this much at stake, you need insights you can count on to make the right call. DTN's Sports & Recreation solutions give you access to instant, real-time weather information and analytics, helping you make the safest, smartest decisions about whether you need to sit one out, or whether it's game on.

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

## **Dura Edge Products, Ltd.**

Grove City PA

**#111**

Dura Edge is a natural provider of Engineered Soils for baseball and softball fields.

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

## **Dura-Trac Flooring, Ltd.**

Kearneysville WV

**#130**

Dura-Trac™ is a revolutionary turf protection and flooring system designed to redefine the way you look at outdoor spaces, it is designed for speed and ease of installation. The patented slide-lock flooring system easily slides together. There are no hinges to break or pieces to be inserted, just slide and lock. The floor is 2 3/4" thick with many accessories to make Dura-Trac more flexible. One of the primary benefits of this product is that it is lightweight with a 4' x 4' panel (16 square feet) that weighs just 50lbs. Dura-trac has many uses; turf protection, roadways, pedestrian access and tent flooring to name a few... The load capacity will easily accommodate heavy vehicles, machinery, tents, and structures.

[www.duratrac.net](http://www.duratrac.net)

## **EarthWorks**

Easton PA

**#323**

By applying the agronomic principals of Dr. William Albrecht along with our soil first approach, we can help you grow quality turf in a sustainable manner while maximizing the benefits of using EarthWorks products.

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

## **Echo Robotics**

Lake Zurich IL

**#149**

ECHO Incorporated manufactures high performance handheld power equipment and robotic mowers for commercial green space maintenance.

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

## **Eco Chemical, Inc.**

Seattle WA

**#1129**

Leading supplier of synthetic turf grass field paints and removers.

[www.eco-templine.com](http://www.eco-templine.com)

## **EPG Media/Sports Turf Magazine**

Minneapolis MN

**#646**

Official Publication of the Sports Turf Managers Association. *SportsTurf* targets sports turf managers and provides them with practical technical and management advice. This audience includes professionals who make purchasing decisions for parks, schools, professional operations, and colleges and universities, as well as those in charge of athletic fields, facilities and complexes.

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

## **Evergreen Turf**

Chandler AZ

**#549**

Sod producer and sod installation services specializing in sports fields and golf course projects.

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

## **Ewing Irrigation & Landscape Supply**

Phoenix AZ

**#613**

Ewing Irrigation & Landscape Supply is the largest family-owned supplier of landscape, sports field and irrigation products in the country. Ewing supplies field managers and contractors with irrigation supplies, sports field management supplies, turf products, agronomics and more. Ewing also offers industry-leading training classes and events for professionals in the landscaping, sports field, golf and grower industries.

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

## **FieldTurf/Grassmaster**

Montreal Quebec Canada

**#125**

The world leader in synthetic and hybrid turf solutions.

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

## **Field Wall Pads – Division of Sports Graphics, Inc.**

Clarion IA

**#1113**

Field Wall Pads offers truly custom product across the entire system of wall and fence padding, custom specialty padding, backstop padding, along with complete branding.

[www.fieldwallpads.com/contact-us](http://www.fieldwallpads.com/contact-us)

## **Fine Chemical Co., Ltd.**

Gimhae-Si Gyeongnam Korea

**#1111**

Fine Chemical Co., Ltd. specializing in Infill and Chip products. Most advanced TPE/EPDM/E-layer Chip Maker.

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

## **First Down Football Products, Inc.**

Monrovia CA

**#900**

The only collapsible goal post you'll really use.

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

## **First Products**

Tifton GA

**#621**

Manufacturer of aeration, seeding and verti-cutting equipment.

[www.1stproducts.com](http://www.1stproducts.com)

## **Floratine Products Group, Inc.**

Collierville TN

**#845**

Agronomic solutions for improved field conditions and enhanced performance.

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

## **Foliar Pak/ J & D Turf**

Columbus OH

**#349**

Providing foliar fertilizers, soil conditioners and plant biostimulant products that elicit optimal plant health.

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

## **g2 turftools, Inc.**

Athens AL

**#312**

g2 turftools is a company dedicated to providing precision turf equipment for sports fields and golf courses. Its mission is to provide experienced quality turf managers with high quality products that make their jobs more cost effective and help them establish a new level of playability and aesthetically beautiful turf.

[www.g2turftools.com](http://www.g2turftools.com)

## **Game Time Sports Systems**

Northbrook IL

**#1107**

GameTime Sports Systems® provides specialized groundskeeping products used by professional sports teams, schools, municipalities and youth leagues. GameTime is able to deliver products coast-to-coast in a timely manner. If you have a sports need, just ask and we will help.

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

## **Gill Athletics**

Champaign IL

**#1105**

Gill Athletics is the world's largest manufacturer of sports facility equipment.

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

## **Graco, Inc.**

Minneapolis MN

**#231**

Graco Inc. manufactures field marking equipment to cover all of your field marking needs.

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



## Exhibitor Listings 2018 STMA Conference & Expo

### **Graden**

Richmond VA

**#705**

Graden, an innovative company with strong, reliable equipment for turf maintenance.

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

### **Grand Slam Safety**

Croghan NY

**#225**

The SPECTO Sport Fencing System, by Grand Slam Safety, LLC, is a revolutionary, full body – full speed impact fencing system for use in, and around, sporting facilities and athletic fields. SPECTO reduces the risk of player injury, maximizes usable space, and increase field versatility with its permanent or temporary functionality.

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

### **GreensGroomer WorldWide, Inc.**

Indianapolis IN

**#523**

We manufacture and sell turf conditioning equipment for natural and synthetic turf.

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

### **GreenJacket**

Genoa City WI

**#134**

Sports turf covers, baseball, football, soccer, golf.

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

### **HARCO Fittings**

Lynchburg VA

**#207**

HARCO has become a leading developer of pipe fittings for the waterworks and irrigation markets. The Harrington Corporation (HARCO) is a producer of gasketed joint injection-molded PVC fittings and push-on gasketed joint ductile fittings.

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

### **Harper Industries, Inc.**

Harper KS

**#307**

We specialize in debris management, including recirculating turf vacuums, debris blowers and verticutters.

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

### **Harrod Sport**

Lowestoft UK

**#440**

Manufacturer and worldwide supplier of soccer, football, and field hockey goals and posts.

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

### **Harsco Minerals**

Sarver PA

**#104**

The crossover product line meets growing demand for high quality plant available silicon fertilizers in the turf, agriculture and horticulture markets. Crossovers patented formulation of plant available silicon, calcium and magnesium provides a comprehensive approach to soil and plant health.

[www.crossover-soil.com](http://www.crossover-soil.com)

### **HCT, LLC**

Scottsdale AZ

**#645**

Water treatment for agronomy. Hardness to nutrition – sodium stabilization – continuous chemical aerification.

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

### **Helena Chemical Company**

Greenville TX

**#1109**

National coverage – local service. Chemical, fertilizer seed, amendments.

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

### **Hellas Construction**

Austin TX

**#649**

Hellas leads the sports construction industry by producing and installing the best synthetic turf, track systems, and court surfaces, with precise quality and long-term durability, while always keeping the safety of athletes in mind. Hellas constructs these projects all across the nation, in time frames that some find impossible, so they are ready for game day and always on budget.

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

### **Henko A&T**

Weert Netherlands

**#849**

Henko A&T is a leading company specialized in providing adhesives, tools and additional equipment for the installation and maintenance of artificial grass applications, as well as for any other professional applications. Based in Weert, the Netherlands, Henko A&T has been an active and innovating player in the market for years, providing high quality products to its worldwide customers.

[www.henko-at.nl](http://www.henko-at.nl)

### **Horizon Distributors, Inc.**

Phoenix AZ

**#247**

Horizon is the only full-service supplier specializing in every major area of products and services that you need, all under one roof, including irrigation, power equipment, landscape supplies and more.

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

### **Hunter Industries**

San Marcos CA

**#713**

Hunter is a world-class manufacturer of efficient irrigation and landscape lighting products providing the most effective solutions for sports turf and synthetic fields worldwide.

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

### **Hydraway Drainage Systems**

St. Peters MO

**#313**

Sports Turf drainage systems for natural and synthetic turf.

[www.hydraway.net](http://www.hydraway.net)

### **IntegraTurf, Inc.**

Albany OR

**#1031**

IntegraTurf, Inc. is a wholesale grass seed company that offers a full line of proprietary cool season turf seeds. Integra understands that even though all customers are unique, they all want four things: Value, Service, Expertise and Innovative Products.

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

### **Intelligent Play**

Nottinghamshire England

**#444**

Intelligent Play is the world's first smart field, the game just changed! Using the most advanced machine learning and Artificial intelligence we track all usage and maintenance enabling intelligent management like never before to make fields play better and last longer!

[www.intelligent-play.com](http://www.intelligent-play.com)

### **Intelligro**

Mississauga Ontario Canada

**#1104**

Intelligro is dedicated to transforming plant protection for more resourceful growth. Partnering with leading researchers and industry professionals, Intelligro challenges conventional wisdom with the goal of promoting smarter growth for a better world. Drawing on more than 20 years of experience in agriculture and more than seven years in the professional turf, lawn and landscape industries, Intelligro offers a wide range of effective brands. Innovative solutions, including CIVITAS™ and PureSpray™, help customers achieve top quality results in their respective fields.

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

### **Iowa State University, Department of Horticulture**

Ames IA

**#1147**

Becoming a turf professional requires a unique journey that includes both classroom and practical laboratory training with hands-on experiences. The best place to receive that experience is in the Department of Horticulture at Iowa State University.

[www.hort.iastate.edu](http://www.hort.iastate.edu)

### **Jacklin Seed Company**

Franklin TN

**#322**

Producers and marketers of world class turf genetics.

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

### **Jacobsen®**

Augusta, GA

**#629**

Jacobsen® has nearly a century of experience designing, manufacturing and delivering turf maintenance equipment. This singular focus has allowed us to deliver a legendary quality-of-cut within our full line of products that consistently and cost-effectively produce perfectly manicured, healthy turf.

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





## Jaypro Sports, Inc.

Waterford CT

#1004

For over 60 years Jaypro has provided thousands of customers with sports and recreation products in facilities across the nation and the globe! We take great pride in providing manufactured products that will last long, operate smoothly and give you years of trouble free use.

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

## John Deere

Olathe KS

#812

Make your field the best it can be with proper soil preparation, accurate seeding and precision mowing delivered by John Deere equipment, backed by service and support you can count on all season, every season.

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

## Johnston Seed Company

Enid OK

#915

Johnston Seed Company was founded in 1893 selling seed, feed, and coal during the Oklahoma Land run. Today, we are still family owned and operated out of Enid, Oklahoma. Through grit and pioneering spirit, we have become a leader in the research, development, and production of warm season grasses. At Johnston Seed Company, we strive to bring the highest quality and most innovative products to the marketplace for our customers. Our research and development team have brought world renown products to the worldwide marketplace, including Riviera and Monaco bermudagrass. Whether you are looking for sod or seeded bermudagrass for your athletic fields, native grass and wildflowers for landscaping, our diverse product line offers a solution for even the toughest situation.

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

## Kifco, Inc.

Havana IL

#315

Since its founding in 1964, Kifco has taken great pride in designing, developing, and delivering a comprehensive line of customer-focused traveling irrigation systems, trademarked the Water-Reel.

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

## Kochek LLC

Putnam CT

#537

Leading manufacturer and supplier of hose, nozzles and accessories for the irrigation market.

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

## Kromer Co., LLC

Plymouth MN

#751

Kromer provides equipment to maintain your field safely and efficiently with state of the art designed to save money and time.

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

## Kubota Tractor Corporation

Grapevine TX

#1044

Kubota Tractor Corporation is the US marketer and distributor of Kubota branded equipment including a complete line of tractors up to 170 PTO HP, consumer lawn and garden products, hay tools, commercial turf products, utility vehicles and compact construction equipment.

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

## Kwik Goal

Quakertown PA

#941

Leading manufacturer of high quality, durable, safety tested sports listed equipment.

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

## Landmark Turf & Native Seed

Madison WI

#1001

Landmark Turf and Native Seed is a full service Seed Company that provides Turfgrass Varieties and Mixtures for Athletic Fields. Vitality HD Sport 2.0 features all top performing Bluegrass varieties and is available as a seed mixture or in Sod Blends.

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

## Landscapes Unlimited, LLC

Lincoln NE

#337

Our Recreational Development Group's expertise in landscaping, irrigation, drainage and laser grading has been instrumental in our capabilities to create high-class sports fields (natural or synthetic), trails, practice fields and parks.

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

## Lebanon Turf

Lebanon PA

#709

Lebanon Turf provides innovative fertilizer, fertilizer/pesticide combination products, biologicals, organics and seed to the professional turfgrass markets.

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

**WORLD CLASS SOLUTIONS**

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**PAINT FOR EVERY SURFACE AND BUDGET**

**SPACE SAVING, WASTE ELIMINATING CUSTOM PAINT TOTE SYSTEMS**

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[WWW.WORLDCLASSPAINTS.COM](http://WWW.WORLDCLASSPAINTS.COM)

1-800-748-9649

WE MAKE THE GAMES LOOK BETTER.



## Exhibitor Listings 2018 STMA Conference & Expo

### Ledeboer Seed LLC

Aurora OR

#1121

Developers and marketers of the first US Patent protected spreading perennial ryegrass.

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

### Linemark International

Vejele Denmark

#131

Linemark International provides high quality and innovative grass marking products which allow you to mark sports fields with ease.

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

### Magnation Water Technologies

Oakland CA

#1106

Magnation Water Technologies provides chemical free water treatment units for rain like water.

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

### Mar-Co Clay Products

Ontario Canada

#939

80+ years & 3 generations in the clay industry with over 20 years as the leading specialist in baseball and sports clay. We offer customized pro-grade mixes & conditioners that provide exceptional drainage for less rainouts and are easy to maintain.

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

### Matrax, Inc.

Lutherville MD

#805

Leading manufacturer of a high-performance, drivable turf protection event flooring solution.

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

### Mid-America Sports Construction

Lee's Summit MO

#300

State-of-the-art construction and renovation of athletic fields, offering both natural grass and synthetic turf.

[www.mid-americasportsconstruction.com](http://www.mid-americasportsconstruction.com)

### Missouri Turf Paint

Kansas City MO

#320

Providers of turf paint, stencils, application equipment, and field lining systems.

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

### Mojo Rental/Terraplas USA

Kilgore TX

#301

Beginning in 1994 with the first sale of Terraplas in the United States to Foxboro Stadium (now Gillette Stadium), the Terraplas name has been the standard in the high-end turf protection business. Protecting your turf as if it were our own.

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

### The Motz Group

Cincinnati OH

#227

Design/build and construction of high performance natural and synthetic turf sports fields.

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

### Mountain View Seeds

Salem OR

#1023

Wholesale supplier of premium grass seed products.

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

### Multi-Flow Drainage Systems

Prinsburg MN

#425

Multi-flow is the industry standard in high-end drainage systems.

[www.multi-flow.com](http://www.multi-flow.com)

### Newstripe, Inc.

Aurora CO

#801

Newstripe is a manufacturer of paint striping machines, drag mats, infield groomers, layout systems and logo stencils.

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

### Nordic Auto Plow, LLC

West Chicago IL

#650

Nordic Plow core solutions for all turf equipment.

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

### PBI Gordon Corporation

Highlands Ranch CO

#822

Anywhere you see beautiful sports turf, golf courses, professional landscaping or lawn maintenance, there's probably a Gordon's product behind it. We're the nation's leader in professional T&O products and nobody knows your turf like we do.

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

### Pearl Valley Farms

Pearl City IL

#1117

Pearl Valley Farms produces Organic Healthy Grow compost that maintains the nourishing beneficial microbes vital for helping plants thrive.

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

### Pennington Seed, Inc.

Grand Prairie TX

#723

Premier grass seed company bringing the most technologically advanced varieties to the sports turf managers since 1945. Offering fertilizer, chemicals and skinned surface materials.

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

### The Perfect Mound

Sauget IL

#1035

The mission of The Perfect Mound™ is to provide baseball players, of all levels, the

highest quality portable pitcher's mounds. Our products are designed by baseball players for baseball players with regards to safety, durability and playability.

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

### Performance Nutrition/ Lidochem, Inc.

Hazlet NJ

#1011

Sustainable turf through ecosystem management.

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

### Perry Weather

Dallas TX

#203

Perry Weather is a full service weather technology company specializing in software and integrated hardware platforms to assist in day to day decisions and operations.

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

### Pickseed

Tangent OR

#931

Global leader in grass seed genetics. Dedicated to seeds and science. Committed to customer service and authentic professionalism.

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

### Pioneer Athletics

Cleveland OH

#401

Pioneer Athletics is the leading developer and manufacturer of natural and synthetic grass field marking paint. Founded in 1905, Pioneer is the teammate of over 25,000 high schools, universities, and professional athletic organizations.

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

### Plant Food Company, Inc.

Cranbury, New Jersey

#1100

Liquid foliar and liquid soil fertilizer experts for sports fields. Family owned and operated for over 72 years.

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

### Port Industries, Inc.

Palmyra MO

#305

Distributor of Shelton and Mastenbroek Sportsfield Drainage Equipment.

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

### Power Turf Renovation, LLC.

Waddell AZ

#1110

This machine aerates, dethatches, verticuts and levels turf. It also removes the lips on baseball fields.

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

### Precision Laboratories LLC

Waukegan IL

#1015

Specialized chemistries for plants, seeds and soil and water.

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





## Pro's Choice

Alpharetta GA  
#722

Pro's choice is a division of Oil-Dri Corporation of America. We manufacture and produce the highest quality infield conditioners in the game!  
[www.proschoice1.com](http://www.proschoice1.com)

## ProTea Botan

Collierville TN  
#347

Agricultural and turf products designed with the producers objectives in mind.  
[www.proteabotan.com](http://www.proteabotan.com)

## Pro-Tech

Rochester NY  
#539

The first containment plow designed specifically for clearing snow away from turf sports fields.  
[www.turfpusher.com](http://www.turfpusher.com)

## Pure Seed

Canby OR  
#638

Suppliers of premium quality turf grass seed to sports turf professionals.  
[www.pureseed.com](http://www.pureseed.com)

## Quality Event Flooring Systems

Beaumont TX  
#137

Forty-three year manufacturer of portable roadways and temporary event flooring to protect stadium turf.  
[www.qualityeventflooring.com](http://www.qualityeventflooring.com)

## Quest Products Corporation

Linwood KS  
#1013

Quest Products produces fertilizers and micro-nutrient products to increase turf wear, sustainability and performance.  
[www.questproducts.us](http://www.questproducts.us)

## R&R Products

Tucson AZ  
#437

Manufacturer of turf replacement equipment and turf equipment replacement parts.  
[www.rrproducts.com](http://www.rrproducts.com)

## R.A.D. Sports

Rockland MA  
#1126

R.A.D. Sports specializes in the construction of high quality athletic and recreation facilities. R.A.D. Sports has grown to be one of the most trusted and successful contractors in the industry.  
[www.radsports.com](http://www.radsports.com)

## Rain Bird

Atlanta GA  
#625

Worldwide leader of irrigation products to sports arenas, golf courses, and commercial developments.  
[www.rainbird.com](http://www.rainbird.com)

## Redexim North America

Valley Park MO  
#501

Manufacturer of specialized turf and ground care equipment produced especially for aeration, seeding, topdressing and environmental maintenance.  
[www.redexim.com](http://www.redexim.com)

## Redexim North America (BLEC N.A.)

Valley Park MO  
#601

Manufacturer of specialist landscaping, grounds construction and turfware machinery.  
[www.blec.co.uk](http://www.blec.co.uk)

## Redox Chemicals, LLC

Burley ID  
#339

A reacted plant nutrient company that specializes in innovative plant growth technology.  
[www.redoxturf.com](http://www.redoxturf.com)

## REHAU

Leesburg VA  
#226

REHAU is a global leader in turf heating applications, with more than 225 systems installed in professional playing and practice fields throughout the world. We support turf field managers during the design and installation of our Pex-based piping systems and controls and advise on ongoing system optimization.  
[www.rehau.com](http://www.rehau.com)

## Revive Organic Soil Treatment

Westminster CO  
#141

Organic-based soil treatment with fertilizer designed to save water and help loosen soil for better water and root penetration. Perfect spot application for high traffic areas that constantly need re-seeding or sodding.  
[www.revive.com](http://www.revive.com)

## Royse Green Technologies

State College PA  
#100

RGT provides sustainable event turf protection. Winner of STMA's 2016 Innovation Award.  
[www.roysegreentechnologies.com](http://www.roysegreentechnologies.com)

## Salsco, Inc.

Cheshire CT  
#124

Tranz-Former, EHA Sports Fields, Greens and Fairways Roller. With features like 114" effective rolling width, light weight rolling to help prevent compaction and 11 M.P.H. transport speed, the Tranz-Former is the ideal machine for rolling Sports Fields, Greens and Fairways. The Tranz-Former is not designed to make anything flat; it's designed to smooth the surface.  
[www.salsco.com](http://www.salsco.com)

## Schiller Grounds Care, Inc.

Southampton PA  
#237

Schiller Grounds Care, Inc. engineers, manufactures and markets some of the world's most sought-after lawn and garden care equipment. Our passion for innovation, quality and reliability is evident throughout our full line of high performance products used by professionals, avid gardeners and homeowners around the globe.  
[www.schillergc.com](http://www.schillergc.com)

## Seed Research of Oregon

Tangent OR  
#929

High quality performance-based seed, with emphasis on disease and wear tolerance and low-input.  
[www.sroseed.com](http://www.sroseed.com)

## Shaw Sports Turf

Calhoun GA  
#1133

Shaw Sports Turf is one of the leading manufacturer of world class synthetic turf systems, with over 3,000 successful installations and a strong history of innovation.  
[www.shawsportsturf.com](http://www.shawsportsturf.com)

## Sidekick USA, LLC

Plainfield IL  
#911

We've developed the fastest and easiest ways to lay thick-cut in the industry, only from Sidekick USA, giving you the safest, firmest athletic field immediately. Our patented machinery is unique to the industry and won the 2013 STMA Innovative Award!  
[www.sidekickusa.com](http://www.sidekickusa.com)

## Signature Systems Group

Flower Mound TX  
#436

Signature Systems Group is the world's largest manufacturer and renter of temporary flooring systems that protect natural grass, artificial turf, and ice arenas. Our stadium flooring systems are in use worldwide at prestigious arenas and stadiums and have proven themselves through extensive use.  
[www.signaturecorp.com](http://www.signaturecorp.com)

## Simplot Partners

Tempe AZ  
#547

Committed. Consultative. Connected. An extension of your team, helping you get more from your investment in turf and horticultural products.  
[www.simplotpartners.com](http://www.simplotpartners.com)

## Site One Landscape Supply

Arlington TX  
#1029

SiteOne Landscape Supply is the nation's largest supplier of wholesale irrigation, outdoor lighting, nursery, landscape supplies, fertilizers, turf protection products, grass seed, turf care equipment, and golf course accessories for green industry professionals in the United States and Canada.  
[www.siteone.com](http://www.siteone.com)



## Exhibitor Listings 2018 STMA Conference & Expo

### Smithco, Inc.

Wayne PA

#828

Manufacturers of premier Sports Turf equipment. We provide solutions for today's professional grounds manager.

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

### Sod Production Services

Charles City VA

#949

Sod Production Services is a proprietary grass licensing company that licenses growers and offers agronomic support.

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

### Sod Solutions

Mt. Pleasant SC

#528

Researching, developing and promoting improved turfgrass varieties worldwide.

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

### Soil Tech Corp.

Fairfield IA

#302

Since 1986, Soil Tech Corp has supplied proprietary bio-fertilizers and soil conditioners to sports field managers. Our safe products are proven effective in 1000's of turf and landscape applications.

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

### Southern Athletic Fields, Inc./ Profile Products

Columbia TN

#933

Southern Athletic Field, Inc. is a supplier of quality infield mixes, mound clays, clay bricks, calcined clays and warning track materials as well as innovative field accessories.

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

### Sprinturf, LLC

Daniel Island SC

#1027

Formed in 1998, Sprinturf has over 1,800 installations throughout the United States. Sprinturf provides a high quality turf system that is manufactured and installed, in-house and in America.

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

### SportsEdge®

Troutman NC

#209

Manufacturer/supplier of surface and sub-surface drain systems, football goals, soccer goals, and track equipment.

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

### Sportsfield Specialties, Inc.

Delhi NY

#804

Since 1998 we have been the innovative industry leader in the sale and manufacture of sports construction equipment. We continue to meet the demands of modern sports construction through innovative design and state-of-the-art manufacturing.

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

### Sports Venue Padding

Cerritos CA

#244

Leading manufacturer of stadium field padding, rail padding, autogate padding, and sponsor graphics.

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

### Spyker Spreaders

Jeffersonville IN

#1021

Spyker Spreaders designs and manufactures world-class broadcast spreaders. Made in the USA.

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

### Stabilizer Solutions, Inc.

Phoenix AZ

#809

Infield mixes, mound mixes, custom blends. Worldwide stabilization products.

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

### Stadium Grow Lighting

Waddinxveen The Netherlands

#545

SGL supplies grow light systems and monitoring equipment and services that make it possible to have a high quality natural turf year round.

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

### STEC Equipment

Anderson SC

#329

From the Sports Turf Manager to the Golf Course Superintendent to every Contractor and Crew Member in between; STEC Equipment provides access to the highest quality specialized equipment from around the world. With a commitment to Quality and a passion for servicing the latest Innovation from around Europe and North America; STEC Equipment has grown to be the "go to" supplier for Specialized Turf Equipment.

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

### Sunbelt Rentals, Inc.

Fort Mill SC

#240

Sunbelt Rentals is proud to be the second largest equipment rental company in the United States. Sunbelt offers a range of general construction equipment, industrial tools, pumps and power generation equipment, trench shoring, scaffolding, remediation and restoration equipment, and much more.

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

### Sustane Natural Fertilizer, Inc.

Cannon Falls MN

#344

World wide distributor network in turfgrass construction and maintenance.

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

### Syngenta

St. Louis MO

#623

Syngenta bring plants potential to life.

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

### Target Specialty Products/ Turf Fuel

Novi MI

#1120

At Turf Fuel we continually work on developing new technologies and product concepts to maintain our position as an industry leader in plant nutrition, plant defense system activation, and specialty chemistries.

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

### The Toro Company

Bloomington MN

#412

The Toro Company provides a broad suite of products and services that meet the turf professionals' demands for productive and reliable equipment and efficient irrigation solutions. We do this through a commitment to superior innovation and superior customer care.

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

### Trimax Mowing Systems, Inc.

Griffin GA

#451

Trimax Mowing Systems design and manufacture high quality, world leading mowers, for golf courses, sports fields and fine turf.

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

### Tri-Tex Grass

Granbury TX

#221

Tritex Grass is a premium grower of warm season grasses for sports and golf.

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

### TruMark Athletics

Omaha NE

#904

TruMark Athletics is your partner in field preparation with everything from paint to machines, stencils to field covers. We have what you need to make your mark.

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

### Turfco Athletics

Buffalo Grove IL

#827

Turfco Athletics is the leader in sports field maintenance, providing the industry's best products to solve and prevent field maintenance problems. Our products are the number one choice among groundskeepers. The complete line of Turfco products has superior absorption and drainage to help fight compaction and create safe playing surfaces at all levels.

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

### Turfco Manufacturing

Blaine MN

#721

For over 50 years, Turfco has been the innovator in providing quality turf maintenance equipment.

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





## **Turf Equipment Source**

Phoenix AZ

**#136**

Equipment sales and contract services.

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

## **The Turfgrass Group**

Bogart GA

**#648**

The Turfgrass Group has established itself as a premiere source for exclusive turfgrass cultivars that remain on the cutting edge of turfgrass technology and engineering. Through collaboration with our private sector and university breeding program alliances, TTG licenses the production of one of the finest collections of superior "value added" turfgrass varieties available.

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

## **Turfgrass Producers International**

Lombard IL

**#140**

TPI members have been serving the natural turfgrass needs of homeowners and commercial properties, golf courses, sports fields, equestrian parks, and recreation facilities worldwide for over 50 years.

[www.turfgrassod.org](http://www.turfgrassod.org)

## **Turf Merchants, Inc.**

Tangent OR

**#1040**

Turf Merchants is a world leader in providing turf seed to sports fields around the world. Independently owned and operated for over 30 years, we have the knowledge and experience to solve your turf needs.

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

## **Turf & Soil Diagnostics**

Linwood KS

**#429**

Turf & Soil Diagnostics is the leading sports turf testing company, with unrivaled knowledge, experience, and dedication to the sports turf industry. Whether you're constructing new fields or perfecting your infield mixes, Turf & Soil Diagnostics can provide the information you need to build and manage your sports fields for optimum performance.

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## **Turf Tank**

Acworth GA

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Turf Tank is proud to present "Intelligent One," the world's first, fastest and most comprehensive autonomous GPS Paint Robot designed to work with any sports field type or surface.

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

## **Turf-Tec International**

Tallahassee FL

**#636**

We manufacture diagnostic testing equipment for natural and artificial turf.

[www.turf-tec.com](http://www.turf-tec.com)

## **TurfTime Equipment, LLC**

New Holland PA

**#1028**

Manufacturer of turf maintenance equipment—aerators, top dressers, verticutters, roller and infield drags.

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

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## **U.S. Specialty Coatings**

Alpharetta GA

**#745**

U.S. Specialty Coatings is a manufacturer of Athletic Field Marking Paints, Paint Striping Machines, Athletic Field Accessories, Traffic Paints, Marking Paints, Industrial Coatings, Protective Coatings, Specialty Custom Coatings, Architectural Paints, Concrete Restoration Coatings, Asphalt Repair Products, Janitorial Cleaners Disinfectants, Floor Wax Polishes, serving customers all over the world.

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

## **Ventrac by Venture Products**

Orville OH

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Ventrac compact tractors and attachments lead the sports turf industry in choices for versatility and durability. Ventrac gives you the ability to choose between 30+ attachments such as contour deck, reel mower, aeration, leaf blowers and more!

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## **Vescio's Sports Fields**

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## **Vivid Life Sciences, LLC**

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Products made from food waste with OMRI-certification that provide proven results. Fertilizers and turf management solutions for every field.

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## **Watertronics**

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For over 30 years, Watertronics has been designing and manufacturing custom pumping solutions for Golf, Landscape, Municipal, and Agricultural use. We offer the most advanced control software solutions available, including WaterVision remote telemetry for 24 hour monitoring and control from any device.

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

## **Waupaca Sand & Solutions**

Waupaca WI

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Manufacturer of infield mix, warning track stone and custom soil blending.

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

## **Wessex International**

Andover England

**#145**

When you invest in a Wessex ProLine commercial mower, you buy into a rich heritage of excellence that stretches back for over six decades! Wessex ProLine mowers provide a prestigious cut at exceptional speeds, have very low maintenance and come with a 3 year warranty.

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

## **West Coast Turf**

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Premium quality growers and installers of natural turfgrass.

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

## **Whitlam Paint Company**

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With over 100 years of paint manufacturing, Whitlam leads the industry in turf marking paints and quality specialty coatings.

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

## **Wiedenmann North America, LLC**

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**#921**

Wiedenmann is a leader in the manufacturing of turf maintenance equipment for both natural and artificial turf surfaces.

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

## **Wood Bay Turf Technologies**

Sun City AZ

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World leader in synthetic and natural athletic field aeration and dethatching.

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

## **World Class Athletic Surfaces, Inc.**

Leland MS

**#529**

The world's premier manufacturer of quality field marking paints. We create custom stencils for field logos.

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

## **World Sports Solutions International**

Henderson NV

**#1038**

World Sports Solutions International Co. is a renowned international company specializing in the maintenance of professional and amateur athletic fields, as well as high-end residential and commercial landscaping areas. Our team offers the highest quality services and technologies for the sports turf industry.

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## TAHOMA 31, NEW BERMUDAGRASS

Wear Tolerant. Cold Hardy. Drought Resistant. Early Spring Green-Up. Tahoma 31 Bermudagrass uses 18% less water than TifTuf, had only 4% winterkill in the coldest regions tested when all other bermudagrasses were in the 82% to 98% winterkill range, and was the first to come out of winter dormancy in University and NTEP tests. Developed by turfgrass researchers at Oklahoma State University, Tahoma 31 is your next sports field turf. To learn more visit [Tahoma31Bermudagrass.com](http://Tahoma31Bermudagrass.com). See Tahoma 31 at the Sod Production Services Booth #949 at STMA Exhibition.



## AIR2GO VALUE PACK CAN SAVE \$2K

Save \$2,000 with the Air2GO Value Pack! The Air2GO Value Pack allows you to quickly and easily move between treatment sites, and from field to field. The award-winning air injection Air2G2 324 powered by Air2G2's air injection process to relieve compaction, increase porosity and force gas exchange. The flexible and easy to use Air2HP handheld tool maneuvers in small spaces, around tree roots, shrubs and flowers, as well as drain fields and sand traps, or to spot-treat problem areas. The all-new Air2GO

shuttle trailer with locking mechanisms to quickly and easily load and unload the Air2G2 324. The air2GO shuttle trailer allows for safe, convenient transport to the next treatment site. There's even a convenient mount for the Air2HP handheld tool. Go to GT AirInject's Air2G2 Booth 637 at STMA Exhibition.



## DT-6 HD DUMP TRAILER

TurfTime Equipment recently added a medium size heavy-duty dump trailer to their line of turf management equipment. Model DT-6 offers a 6,000lbs. Bed size is 84" x 61" with 16" removable sides, 20-inch headboard. Tailgate has the option of folding down with chain support or hinging at the top. Dump has dual action 3.5X22 cylinder, Heavy structural Tubing Chassis. 12" x 10.5" 6-6 wheels and 26.5" x 14" turf tires. Greaseable pivots and wheel bearings. Comes standard with premium long lasting powder coat finish.



## TRUMARK ATHLETICS

TruMark Athletics, booth 904, offers a variety of different stencil styles and types of plastics to make painting easier. TruMark works in a collaborative manner to bring your team's logo, team name or mascot to life on the field. This includes guidance when converting a printable logo to a paintable one, offering professional mock-ups and a quick turnaround for quotes and production. We will make the right recommendation on style of stencil and plastic used to ensure that you have the most accurate

and longest lasting stencil. There are standard options for items such as end zone letters, number sets and hash marks, or we can help design custom options to make your field one of a kind.



## PHOSPHITE FERTILIZER

For improved stress tolerance and stronger turf, visit Performance Nutrition at Booth #1011 to learn about New Prudent 40PLUS highly concentrated phosphite fertilizer fortified with 17 free L-amino acids. Prudent 40PLUS combines two effective and complementary technologies to maintain plant health, Prudent phosphite fertilizer, and Pennamin amino acids, in one easy-to-use product. Prudent 40PLUS highly concentrated phosphite fertilizer (40% PO<sub>3</sub>, expressed as P2O<sub>5</sub>), is formulated with patented urea phosphite and Pennamin amino acids. The amino acids are the building blocks for proteins, help move nutrients into the plant, and play important roles in almost every plant function. Since they are "free" amino acids, they are immediately plant-available. To learn more visit [prnfertilizers.com](http://prnfertilizers.com) or see us at Booth #1011.

## TURF FUEL CLEANSE REMOVES ORGANIC ACID, INCREASES INFILTRATION

Target Specialty Products has launched Turf Fuel Cleanse, a product for turf professionals to treat soil that displays signs of localized dry spots, poor infiltration or poor soil health. Cleanse combines Turf Fuel's proprietary Soil Sync technology with an even stronger solvent than previous formulations. This two-part system works to attack hydrophobic organic





acids responsible for LDS while delivering key enzymes to promote healthy soil biology and root system development. This combination gives treated soil an improved rewetting capability and more robust biological portfolio. Turf Fuel products are designed to help turf professionals get the most out of their turf even in extremely stressful conditions. The products are built from a foundation of science where proven concepts are fortified with unique and innovative new technologies.



## SYNGENTA INTRODUCES MANUSCRIPT HERBICIDE

To help sports turf managers manage mature grassy weeds, Syngenta has launched new Manuscript herbicide. It is specially designed to provide post-emergence control of weeds like tropical signalgrass, bull/thin paspalum, crabgrass and dallisgrass in certain warm-season turf species. Manuscript is powered by pinoxaden, a new active ingredient for the turf industry. It has an advanced form of ACCase mode of action. This herbicide can be

used anytime the weeds are actively growing, including in the heat of the summer when desired turfgrass is actively growing and fills in more rapidly. Manuscript also features a built-in safener that speeds the metabolism of pinoxaden in desirable turf to help improve turf safety, without sacrificing control of mature, difficult-to-control weeds. This allows for effective spot treatments, further improving selectivity against tough weeds.



## NEW SEEDED BERMUDAGRASS

Pure Seed and Atlas Turf International are proud to introduce PurePro seeded bermudagrass, a blend of the industry's highest performing hybrid bermudas. With the goal of delivering the ultimate playing surfaces, PurePro combines the attributes of multiple varieties to produce a fine-textured, dark green, elite blend. The advantages of PurePro are evident from the beginning. Under optimal conditions, PurePro germinates in seven to 14 days. Quick establishment of a dense, hearty turf means sports fields and golf courses can be ready for play in as few as eight to 12 weeks. With performance being key, PurePro delivers strength. The deep-rooting, dense turf is extremely traffic tolerant and meets the demands of heavy play. PurePro recovers quickly from injury. Even the most challenging conditions are no match for PurePro. The blend offers excellent salt tolerance, performing well with all types of water quality. PurePro is also drought, disease, and heat tolerant, maintaining its vigor through extreme temperatures.

## GREENJACKET BECOMES TARPDEVILS' MASTER DISTRIBUTOR

GreenJacket and TarpDevil have formed an agreement where GreenJacket is the Master Distributor of the TarpDevil throughout the United States. The first of its kind, TarpDevil is the industry's new solution to reduce the



burden of collecting and deploying covers. This tractor mounted, hydraulically controlled cover management system exponentially reduces the labor required to manage tarps in spring and fall. A short video of TarpDevil can be seen at <http://tarpdevil.com/tarp-devil-product-video-live/>. The TarpDevil will make the work of rolling and unrolling covers so much easier. It's North American made, compact, and can work with a tractor you have on hand.



## ECHO INTRODUCES 2 NEW BLOWERS

The new PB-8010 backpack blower features a new 79.9cc engine that delivers the highest blowing performance of any backpack blower on the market: 1071 CFM and 211 MPH, with a 44 Newtons according to the ANSI B175.2 standard. That's at least 7% more performance than any other backpack blower on the market. All that performance is directed onto the nearest unsuspecting pile of leaves through huge 3.6" diameter blower tubes, featuring a wear ring on the end to prevent wear. The PB-8010 also features an industry-first carbon fiber plastic frame and fan case. This new technology cuts 1.9 pounds of weight. Rounding out this model is an oversized pleated paper main filter and foam prefilter for use in high-dust environments, along with tool-less latches for easy in-field maintenance. The ECHO-original vented backpack frame draws air across the user's back to keep you cool in hot weather, and a block-off plate is included for use in cooler weather.



#### ► FIELD

## OSBORNE STADIUM

### LIBERTY UNIVERSITY

#### ► LOCATION

Lynchburg, VA

- **Category of Submission:** College Soccer
- **Sports Turf Manager:** Brian Hinkley, CSFM
- **Title:** Athletic Field Manager
- **Experience:** I began working on athletic fields as a 15-year-old in high school. Several years later, I was given the opportunity to move to Supervisor of Athletic Fields on the grounds department at Liberty University. As the university has grown, I have been intentional about gaining knowledge and experience through educational courses, expert advice, and research. For 13 years, I have been responsible for the care and maintenance of Liberty University's athletic fields; currently including fields for all NCAA Division 1 practices and games, Club Sports, Intramurals, and VHSL High School athletics.
- **Full-time staff:** Kimball Chambers, Joseph Knight, Zach Horsley, Tyler Bergin, and Dakota Riley. All are full-time staff that have a role in maintaining the field here and there, but there is no one assigned to the field "full-time" other than Brian Hinkley.
- **Original construction:** 2015
- **Turfgrass variety:** Latitude 36 bermuda
- **Overseed:** We overseed in the fall at a rate of 15 lbs/1000 with a blend of perennial ryegrasses. Our process is to spread the seed several directions and then topdress with a sand matching

our rootzone to ensure good seed to soil contact. We then brush in the sand and irrigate lightly for several days until the seed has rooted.

- **Rootzone:** 90% sand
- **Drainage:** Full in field drainage with laterals on 15-foot centers.

#### Why should STMA consider your field a winner?

Liberty University has a rapidly growing and competitive NCAA Division 1 athletic program. Consistent with the growth at Liberty, my crew (5 full-time staff) and I have become increasingly efficient with the use of our time and resources. We are responsible for over 25 acres of natural turf and 18 acres of artificial turf used for football, baseball, soccer, softball, lacrosse, band, field hockey, intramurals, and club sports.

Osborne Stadium is home to both men's and women's soccer. We work closely with the coaches to understand their expectations for the playing surface and ensure they have access to the field when needed. Our goal is that the field is always in top condition so that it does not become a distraction to the team or the coaches.

The central location and top-notch facilities of the university make us a prime venue to host outside events. In the past year

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



we have hosted the Virginia Commonwealth Games, several track meets, and numerous youth soccer camps in addition to Liberty's home soccer matches. The majority of these events take place during the off-season when we are doing the bulk of our summer maintenance. It takes flexibility, clear communication, and a good deal of organization to work maintenance tasks around these events.

Player safety and playability are top priorities for us as a crew. We realize that the amount of time and effort we put into field maintenance relates directly to the athlete's experience. Consistency and attention to detail are key in accomplishing these goals. With the scope of our responsibility, there is no time to repeat maintenance practices simply because we were not paying close attention to the details. The crew has come to understand the magnitude of this responsibility and have all stepped up to the challenge.

Our desire is that when coaches, players, fans, and visitors come to Osborne Stadium they see a beautiful playing surface. We are background players, and if we do our job correctly and efficiently, they should never even know that we were involved. We believe Osborne Stadium has the best playing surface in the country, and we strive to utilize the time and resources available to us to keep the field in top condition.

**SportsTurf:** *What attracted you to a career in sports turf management?*

**HINKLEY:** I loved the idea of being involved with athletics in a way that is challenging, requires a lot of science, and allows me to get my hands dirty.

**ST:** *What are your main responsibilities?*

**HINKLEY:** I am responsible for the management and maintenance of all athletic fields for Liberty University and Liberty Christian Academy.

**ST:** *And what does a regular working week entail, if a "regular week" even exists?*

**HINKLEY:** It varies by season. However, every week includes: communication with coaches and administration regarding that specific week's needs, planning meetings, laying out a work schedule for the crew, field work as needed, and game day operations.







**ST:** How do you keep up-to-date re emerging technologies, best practices, etc.?

**HINKLEY:** Industry magazines, online webinars/trainings, local and national STMA events, and Twitter have all been helpful resources for me.

**ST:** What changes if any did you implement for the winning field in 2018?

**HINKLEY:** I added our main logo at midfield for each match, but kept most things the same in regards to field maintenance.

**ST:** You know a lot of sports turf managers. What are they saying are the biggest obstacles to overcome for them to be successful today?

**HINKLEY:** There's one thing that I probably hear the most, and have experienced myself: effective communication with administration. Consistent communication with administration to align our goals is at times tough, but crucial if we are to succeed together.

**ST:** How has your career benefitted from being a member of STMA?



**HINKLEY:** My career has benefitted greatly because of the enormous amount of knowledge I have gained, the relationships I have developed, and the recognition I have received.

**ST:** *What's the greatest pleasure you derive from your job?*

**HINKLEY:** There's nothing better than having a field in great shape for games or practice, knowing that we are providing a surface that will give our teams their best chance to perform well.

**ST:** *What's the biggest headache?*

**HINKLEY:** The weather. It affects everything from daily maintenance, to cultural practices, to practice/game schedules.

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

**HINKLEY:** Never stop learning.

/ST/













## 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)



# Investing in natural grass

**Q:** I heard that last season that the University of North Carolina used their stadium football field for all their football practices and home games plus for lacrosse. How did they manage to have their field look so good for the TV games when they only had that one field to use for everything all season?

**A:** This is a great question. If you happen to be attending the STMA Conference this January, you should go to “One Field, One Season: Maintaining Kenan Stadium” by Casey Carrick, CSFM, and Chad Price CSFM, CFB (Wednesday January 23). You can then hear all the details from the two guys that made this undertaking such a success. I do not want to spoil their story, but I will mention some aspects because it provides some great lessons in organization and teamwork.

I say teamwork because the successful outcome from this story was because of more than two guys. These sorts of decisions are usually made by high-level administration and require buy-in from the coaching staff. Everyone through the organization and the contractor(s) need to be on the same page and willing to be flexible if there were issues. I am sure that Casey and Chad were left to consider all the potential field-related problems so that a plan of action could be implemented as quickly and effectively as possible. So, let’s dig a bit deeper in this story.

As for some background context, UNC had plans to build a new practice complex that would re-configure and re-build all the practice football fields. It just so happened the adjoining area used for lacrosse practices was also in the equation. Without practice fields, the game field became the field of choice for everything – all practices (offense and defense) and home games.

Due to the anticipated wear, a strong argument could be made to install a synthetic surface. This is an excellent use of synthetic turf since the surface can easily handle a season of repetitive practices and game-day activities with almost no perceived wear. But in this situation, a decision was made to consider the possibilities of keeping their natural grass and the implications once it began to show symptoms of wear.

There was never a question if the field would begin to degrade from excessive use. It was what to do about the damage when it did happen and could it be remedied during the season given its continued use and resulting time constraints. First, someone had to decide what steps would

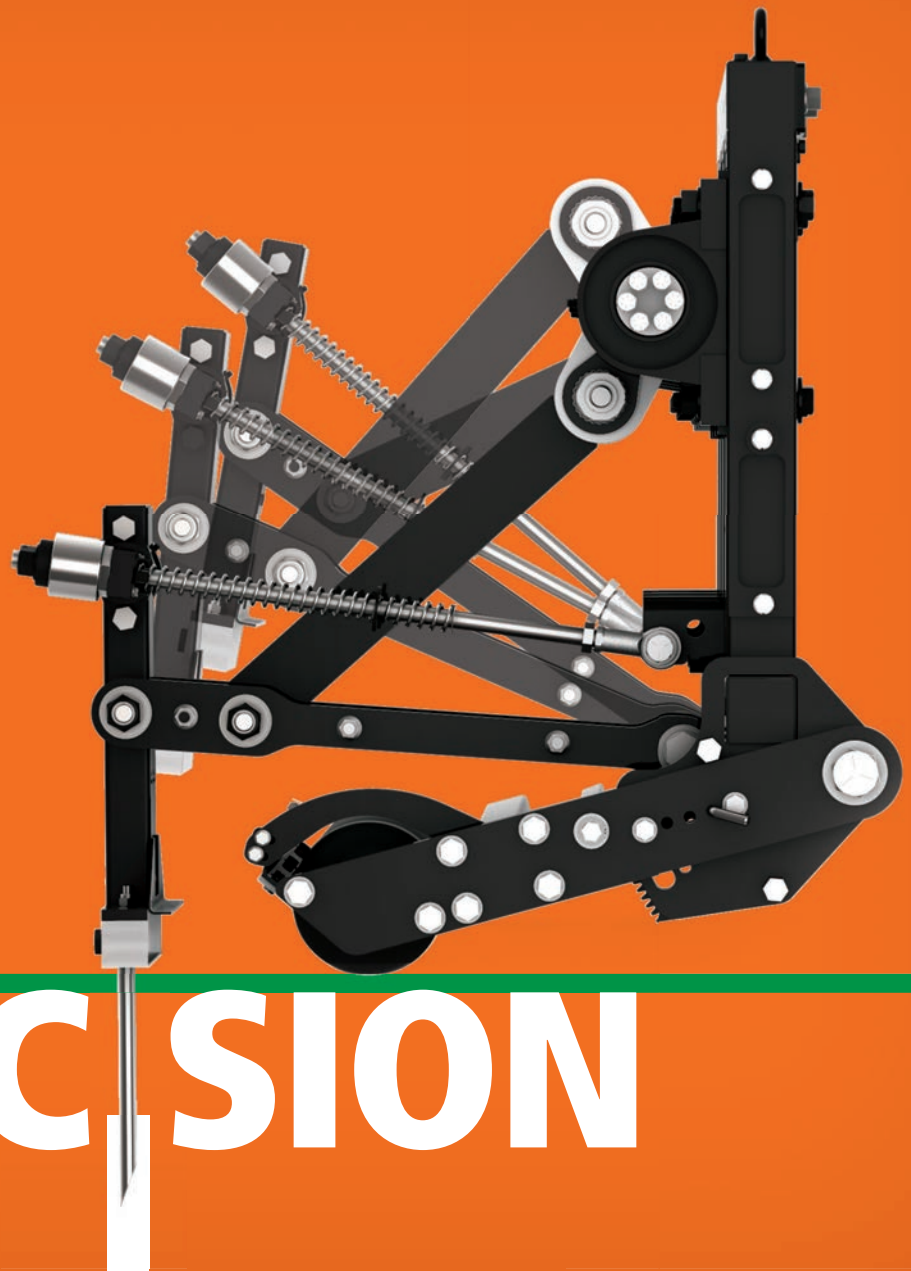
be necessary to bring the surface up to the high standards that everyone at UNC expected. Second, someone had to determine what labor, materials, and logistics would be required to carry out the plan. Third, someone had to calculate what all this was going to cost UNC. That “someone” had to be a collective effort of many people.

I am sure it took months of calculating from several perspectives just to decide if it was feasible while considering all the pros and cons of either decision. At some point someone had to decide it was worth the investment into an intensively managed natural grass system rather than to take what would likely be the easier solution of using synthetic turf. I should add here that this decision might not be the best solution for everyone. If any one group (administration, field managers, or coaches) thought that the field-building contractor and on-site field management staff working together could not succeed with their plan, then it could have been disastrous.

By now you know that the decision was made to replace the natural grass surface “as needed” during the season. Replacing a game field during a season has been done many times (in the NFL and/or in association with college bowl games) since the development of thick-cut sod. But that is very different than planning for multiple replacements within a season for a football field that is serving as the only available practice field and as weekend game field. Plus it was being used for other competitive sporting events.

I applaud the people’s resourcefulness and ingenuity to pull everything together to make this work for the season. Because once the decision was made mid-week that a new field surface was needed, so many details had to be in place for a change-out to be successful, while keeping the field in play and available for practices. I will leave it to Casey and Chad to outline all the logistics in their talk. I think you will find that Phil Knight’s comment, “There is no drama like the drama on the athletic field” equally applies to this performance. **/ST/**





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