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Table 2. Effects of mowing height and fertilization treatments on turfgrass cover percent (%) on a non-trafficked and trafficked perennial ryegrass/Kentucky bluegrass stand at the Hancock Turfgrass Research Center, East Lansing, MI., 2003.

Treatments	2002				2003		
	Non-traffic				Traffic		
	2-Jul	5-Aug	7-Jul	4-Aug	12-Aug	19-Aug	3-Sep
	----- % -----						
<b>Mowing</b>							
1.5" Continuous	77	84	52	77	66	49	40
3.0"-Gradual-1.5" <sup>†</sup>	72	85	57	81	69	51	41
3"-Chop-1.5"	73	80	54	73	67	46	37
LSD (0.05)	NS	4	NS	6	NS	NS	NS
<b>Fertilizers<sup>†</sup></b>							
Urea	62	82	42	76	66	39	27
Urea 2w	72	82	43	74	60	42	34
SCU	69	78	47	68	61	43	32
RCU2	83	86	69	81	74	62	49
RCU3	88	92	76	92	84	68	66
RCUThin	70	79	49	69	61	38	28
LSD (0.05)	6	5	9	8	9	11	11
No. of passes	0	0	0	0	8	16	34

NS - non-significance at the 0.05 level.

<sup>†</sup> All fertilizer strategies received 1 lb. N/1000ft<sup>2</sup> of 13-25-12 on 1 June.

Urea, urea applied at 1 lb. N/1000ft<sup>2</sup> on 1 July; Urea 2w, 0.33 lb. N/1000ft<sup>2</sup> urea applied every two weeks; SCU, 3 lb. N/1000ft<sup>2</sup> sulfur-coated urea; RCU2, 2 lb. N/1000ft<sup>2</sup> polymer-coated urea applied on 1 June; RCU3, 3 lb. N/1000ft<sup>2</sup> polymer-coated urea applied on 1 June; RCUThin, has a thinner coating compared to other polymer coated-ureas and 4 lb. N/1000ft<sup>2</sup> polymer-coated urea applied on 1 June.

## Shear resistance and Turf Shear Tester (TST)

Shear resistance and TST values are quantitative measures that clearly ascertained differences in strength of the surface after the 70-day reestablishment window, and during and at the end of the 25-day traffic regime (see Table 3).

At the end of the 25-day traffic regime in 2003, only RCU2 and RCU3 had shear vane values above 10 Nm. It should also be noted that RCU2 values were significantly higher than SCU and RCUThin for all dates except September 3 TST non-traffic values. RCU2 nitrogen amount was less than SCU and RCUThin. Type of coating and coating thickness were possible factors in releasing of nitrogen from the RCU2 fertilizer compared to SCU and RCUThin.

Results presented may be due to a more accelerated wear compared to other data in the literature using different traffic simulators. The CTS is a more aggressive machine compared to traditional wear machines to date. ■

*Tim Vanini is director of the Big Green Initiative at Nichols School and president of New Dimensions Turf, Inc., a consulting, research and education firm specializing in performance turfgrass in Buffalo, NY. John N. Rogers, III, is a crop and soil sciences professor at Michigan State University.*

and non-traffic areas in both years. RCU3 was in the highest statistical category for every measuring date.

SCU and RCU3 had the second highest amount of nitrogen, but these two products responded differently. SCU releases nitrogen once water comes in contact with the urea prill via cracks and imperfections in the sulfur coating. RCUs combine irrigation/rainfall and high temperature (> 80 degrees F) to slowly release nitrogen. The process is initiated when the RCU prill uptakes water, expands with heat and then slowly releases nitrogen via expanded pores in the coating at a steady rate. Consequently, due to a more controlled release from RCU3, it rated higher in turfgrass cover percent (and others).

Mowing treatments (started June 25, 2002 and July 3, 2003, respectively) had approximately a 35-day window compared to fertilizer treatments applied at the beginning of the 70-day re-establishment window. Even though more than one-third of the plant was being removed from the 3.0-chop-1.5-inch treatment 68 DAS, differences were not observed among mowing treatments for turfgrass cover percent.

There were no significant differences among Urea, Urea 2w, SCU, and RCUThin for five of seven measurement dates for both years combined. RCU3 was 14% and 18%

higher compared to SCU August 5, 2002 and August 4, 2003, respectively, before traffic commenced. Turfgrass cover percent loss after traffic revealed a 53% loss with SCU, but only a 28% loss with RCU3 between August 4 and September 3, 2003.

Soil temperatures in the month of June, for 2002, averaged from 77 to 82 degrees F from 1200 to 1800 h. In June 2003, average soil temperatures ranged from 67 to 77 degrees F from 1200 to 1800 h. This might explain why turfgrass percent cover was higher in 2002 compared to 2003.

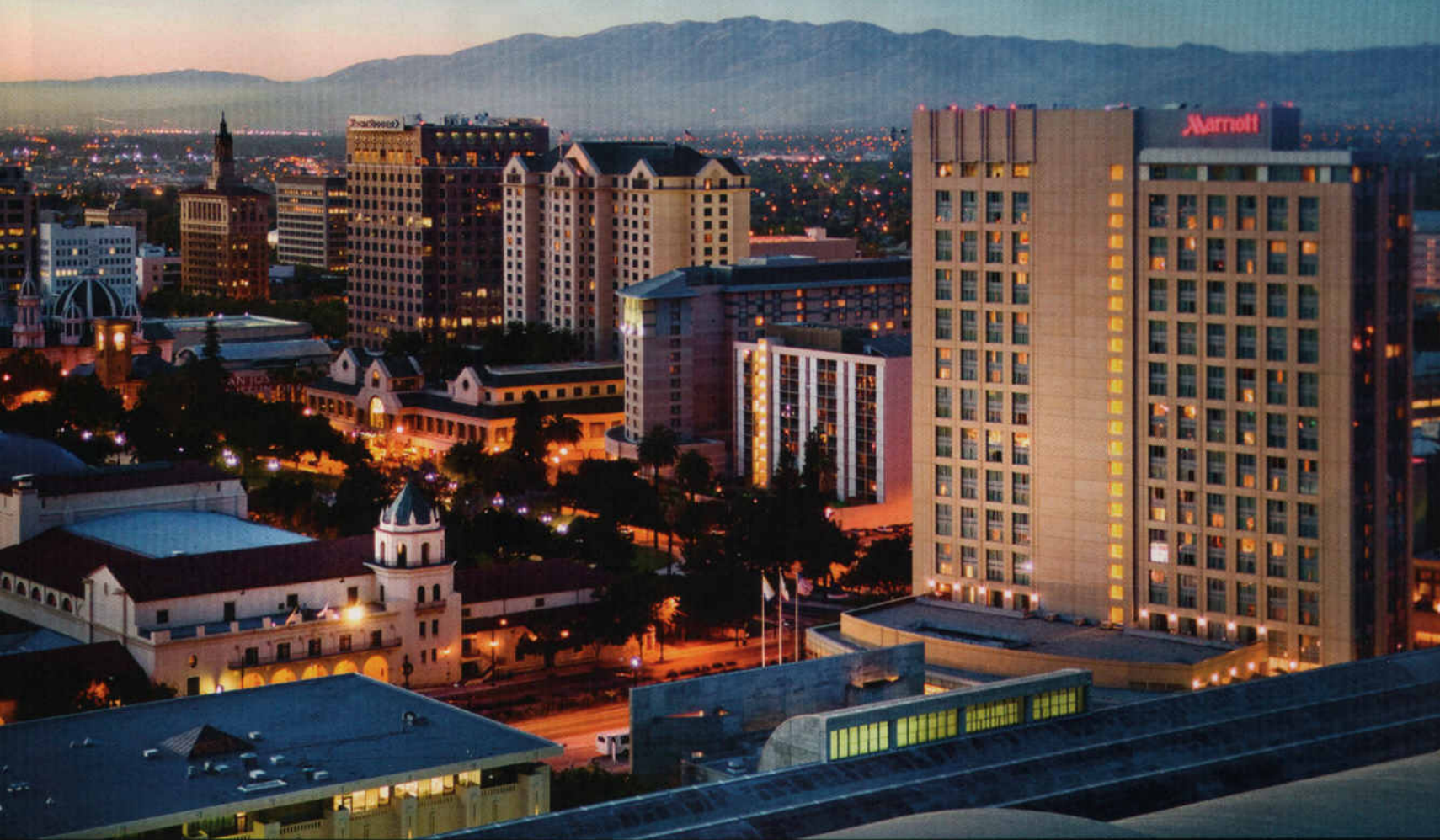
Table 3. Effects of mowing height and fertilization treatments on shear resistance and turf shear tester (TST) on a non-trafficked and trafficked perennial ryegrass/Kentucky bluegrass stand at the Hancock Turfgrass Research Center, East Lansing, MI., 2003.

Treatments	2002		2003						
			Shear resistance			TST			
	Non-traffic	Traffic	Non-traffic	Traffic		Traffic	Non-traffic		
	15-Aug	4-Sep	7-Aug	13-Aug	21-Aug	28-Aug	3-Sep	3-Sep	3-Sep
	----- Nm -----								
<b>Mowing</b>									
1.5" Continuous	16	11	14	15	12	10	8	49	113
3.0"-Gradual-1.5"	16	11	15	15	12	11	8	53	108
3"-Chop-1.5"	15	11	14	14	12	9	7	51	106
LSD (0.05)	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Fertility<sup>†</sup></b>									
Urea	16	11	13	13	11	9	5	39	97
Urea 2w	16	10	15	14	11	10	7	47	109
SCU	15	10	13	14	11	7	7	48	112
RCU2	18	12	16	17	14	13	11	61	112
RCU3	17	12	18	17	15	13	12	70	118
RCUThin	14	11	12	12	11	8	4	39	106
LSD (0.05)	2	1	2	2	2	3	3	11	NS
No. of passes	8	30	0	6	18	26	34	34	0

NS - non-significance at the 0.05 level.

<sup>†</sup> All fertilizer strategies received 1 lb. N/1000ft<sup>2</sup> of 13-25-12 on 1 June.

Urea, urea applied at 1 lb. N/1000ft<sup>2</sup> on 1 July; Urea 2w, 0.33 lb. N/1000ft<sup>2</sup> urea applied every two weeks; SCU, 3 lb. N/1000ft<sup>2</sup> sulfur-coated urea; RCU2, 2 lb. N/1000ft<sup>2</sup> polymer-coated urea applied on 1 June; RCU3, 3 lb. N/1000ft<sup>2</sup> polymer-coated urea applied on 1 June; RCUThin, has a thinner coating compared to other polymer coated-ureas and 4 lb. N/1000ft<sup>2</sup> polymer-coated urea applied on 1 June.



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OPPORTUNITIES

## 20th Conference and Exhibition visits Silicon Valley

Welcome to the San Jose, where high tech meets high interaction at the 20<sup>th</sup> Annual STMA Conference and Exhibition. The educational sessions focus on technology, and emerging and innovative management practices for sports fields. The sessions are taught by some of the best professionals and educators in the industry.

We've created exceptional events that provide ample networking time to catch up with friends and meet new contacts. Our program includes more than 90 hours of education highlighting three Turfgrass Institutes, three Pre-Conference Workshops and 39 breakout sessions with topics designed to inspire and assist you professionally.

Steve Farber, a subject-matter expert in business leadership will give the Keynote Address sponsored by World Class Athletics. This year STMA has a 9-hour Student Track designed with workshops and forums dedicated to pertinent issues facing students in the sports turf industry along with the 5<sup>th</sup> Annual Student Collegiate Challenge sponsored by Hunter Industries. With something for everyone, this conference is one that should not be missed! Below is an overview of the educational program with descriptions for the STMA 2009 Conference. We look forward to seeing you in sunny California.



### WEDNESDAY, JANUARY 14

**8:30AM - 11:30AM**

*Optional Turfgrass Institute I:*

#### **Introductory – Native Soil Sports Turf Management**

*A.J. Powell, Jr., Ph.D., University of Kentucky*

A complete review of management practices for native soil fields including solving drainage issues, fertilizer application, aerification, top dressing, and soil testing and pest and weed management.

**1:00PM - 4:00PM**

*Optional Turfgrass Institute II:*

#### **Advanced – Principles in Soil Modification**

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

Attend this in-depth workshop that focuses on the soil tests you need, the complexity of the lab procedures, and how to interpret the results so that you can develop a soil tests you need, the complexity of the lab procedures, and how to interpret the results so that you can develop a soil modification plan as necessary.

**2:00PM - 4:00PM Pre Conference Workshop I**

#### **Practical Record Keeping for the Sports Turf Manager**

*John Netwal, CGCS, North Scott Community Schools*

This presentation will look at various everyday record keeping strategies that will keep the sports turf managers on top of his game. Examples of spreadsheets and other helpful tools will be discussed that will tract pertinent information for the sports turf manager.

**Pre Conference Workshop II**

#### **The CSFM Process Demystified**

*Tony Koski, Ph.D., Colorado State University*

An overview of the process leading to CSFM status, with the emphasis on preparing for the exam. Includes an overview of the exam process, types of questions, categories of questions, and ways of studying and preparing

for the exam. We will also discuss the “who, where, when” of actually taking the exam- and what happens if you don't pass every section.

**Pre Conference Workshop III**

#### **Diagnostic Interpretation of Turfgrass Issues:**

##### **A DREAM Opportunity**

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

A systematic and science based approach to diagnosing Turfgrass related issues and problems of any kind such as insects, diseases, nutrient deficiencies, shade, and compaction will be presented. The information provided will highlight specific steps, tools, resources, documentation and communication needed to effectively deal with any turfgrass related issue or problem.

**4:30PM - 6:30PM**

#### **Sports Turf Networking:**

These sessions are designed for attendees to get together with other professionals in their field and discuss important issues facing their jobs.

Networking 1: K-12

Networking 2: Higher Education

Networking 3: Facilities Used by Professional Athletes

Networking 4: Parks & Rec

Networking 5: Academics

Networking 6: Students

### THURSDAY, JANUARY 15

**8:00AM – 10:00AM GENERAL SESSION**

sponsored by World Class Athletic Surfaces

*Introductory Remarks – STMA President Mike Andresen,*

*CSFM Athletic Turf Manager, Iowa State University*

*Conference Highlights – Mike Goatley, Jr., Ph.D. Virginia Tech*

*Research Highlights – Ali Harivandi, Ph.D.*

*University of California Cooperative Extension*



Steve Farber

**Keynote Address – Steve Farber**

A subject-matter expert in business leadership and a frequent guest on news-talk shows around the country, Steve is a senior-level leadership coach and consultant who speaks 90 to 100 times a year to a wide variety of public and private organizations. Coaching and inspiring Extreme Leadership at all organizational levels is Steve's passion, and he does so with a style that is part strategist, part social commentator, part comedian, and all energy.

project goals. Project management developed from different fields of application including construction, engineering and design. A successful PM must simultaneously manage four basic elements of a project: resources, time, money, and scope.

*Jeffrey Bruce, Jeffrey L. Bruce & Co.*

**Sports Fields: From IPM to Environmental Mgmt.**

This session will cover the essentials of cool season turfgrass management for sports fields emphasis on practices to reduce maintenance input for maximum traffic tolerance- appropriate blends, mixes, grass species and cultivar selections based on NTEP trials and field performance - water management – fertility management - cultivation, renovation.

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

*Mary Owen, UMass/Amherst*

**Polo Field Maintenance: When the Sport of Kings Met the STMA**

This will cover my journey from grounds supervisor of a K-12 school district to turf supervisor of a 30-acre polo complex. Hear the similarities and differences between the maintenance routine for traditional sports fields and polo fields. Learn about sand slit drainage systems, compaction issues, divot repair, aeration, mowing practices, and reducing pesticide use.

*Rich Watson, Belvedere Property Mngmt.*

**8:00AM - 11:30AM**

**Turfgrass 101 in Spanish**

*José Makk, Natura LLC Design & Consulting*

Taught in Spanish, this session is ideal for crew members or those who are seeking a greater understanding of the region's turfgrasses, fertility, water and pest management practices. (Attendees are invited to tour the exhibition together for continued education and discussion.)

**8 BREAKOUT SESSIONS: 10:30AM - 11:45AM**

**Get a Grip: The Fundamentals of Project Management**

Project Management is the discipline of planning, organizing, and managing resources to bring about the successful completion of specific

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# STMA in SAN JOSE

## **Is Your Field Drainage Working or is it All Wet?**

A look at field drainage, why it fails and what the key steps are to install a properly operating system. Current drainage technologies and installations will be shown. Cost will be given. The steps that go into deciding to install and how to justify it will be outlined from the perspective of the owner, the athletic director, the grounds crew and the contractor.

*Steve Bush, CSFM, Bush Sports Turf*

## **Nitrogen Fertilizers in Sports Turf – Best Management for Best Turf**

A discussion of the biologically based N cycle and how it affects sports field management and the application of N fertilizers. This workshop will cover new research in paths of N loss from fields, including N volatilization and N leaching. It will also cover new N fertilizers that have recently been introduced to the market, including those products with nitrification inhibitors.

*Elizabeth Guertal, Ph.D., Auburn University*

## **The Replacement Process of a Synthetic Field**

The synthetic sand/rubber infill system at Delta Park in Portland, Oregon, is one of the first installations in the world, installed in Oct. 1997. This presentation will include the description of their 1st generation product and the advancements made up to their 4th generation product.

*Debra Kneeshaw, Portland Parks and Rec.*

## **Practical Solutions to Failed Fields (repeated 3:00-4:15pm)**

This talk will focus on eight to ten case studies of fields that have failed due to poor design, poor construction, inadequate management, or over-use, and will discuss the solutions in these cases.

*Norman Hummel, Ph.D., Hummel & Co. Inc.*

## **Communicating with Coaches, User Groups, Administrators and other Nefarious Characters**

This presentation will discuss how to communicate and manage the various user groups of sports turf facilities and how to gain their cooperation to provide safe, playable and aesthetically pleasing fields.

*Dale Getz, CSFM, CSE, and Boyd Montgomery, CSFM, CSE, The Toro Company*

## **8 BREAKOUT SESSIONS: 1:30PM -2:45PM**

### **Are You an Eagle or a Buzzard... Remember, Both Soar**

There are two different types of birds that soar in this world. Which type are you?

*Jeff Fowler, Penn State University*

### **Weather 101: Fundamental Meteorology for Turf Managers**

Weather conditions impact turf managers on a daily basis. Turf managers can provide more consistent playable field conditions by understanding weather patterns and concepts. This interactive workshop provides turf managers with the tools to interpret daily weather reports, maps, and forecasts, which can then be applied to daily turfgrass management practices.

*Brad Jakubowski, Doane College*

## **Granulars and Nozzle Types that Work: Novel Technologies for Disease Control**

An evaluation of the effectiveness of new granular fungicides for control of brown patch and other diseases. Also the use of different nozzle types to extend and improve the effectiveness of fungicides applied to tall fescue for brown patch.

*Brandon Horvath, Virginia Tech.*

## **Specific Strategies for Managing Intense Traffic Areas of Cool- Season Athletic Fields (repeated 1/16-2:45-4:00pm)**

This session will identify the problems associated with intense traffic on cool season athletic fields. Learn proven strategies and techniques that can be readily implemented in every sports field managers program. The STMA's Playing Conditions Index (PCI) will be highlighted as a tool for evaluation.

*David Minner, Ph.D., Iowa State University*

## **Storm Water Management**

Are storm water management requirements affecting the management of your athletic field, park or facility? Want to expand or renovate your site, but confused by regulations related to storm water runoff and how they affect your plans? This presentation will cover the basics of storm water management, and what sports turf managers should know about this timely topic.

*Aaron Volkening, P.E., Earth Tech, Inc.*

## **Punch Lists Punching You Out?**

For those facing construction projects, this session will address ways to set yourself up for success, before the stress of the project hits. Spec. development, bid processes, contractor selection and quality control will be presented.

*Jay Warnick, CSFM, World Class Athletics*

## **Planning Construction, and Maintenance of Infill Fields, What We Have Learned**

Take an in depth look at the conversion of Paul Brown Stadium from a natural grass field to a synthetic field and the day-to-day maintenance of the surface.

*Darian Daily, Paul Brown Stadium*

## **Infield Dirt Maintenance and Renovation (1:30-4:00pm)**

Hear from a panel of professionals on infield dirt maintenance and renovation. A focus will be the maintenance and renovation practices that turf managers can accomplish on their own. There will be a Q&A session.

*Larry DiVito, Washington Nationals*

*Gary Vanden Berg, CSFM, Milwaukee Brewers*

*Bill Deacon, New York Mets*

*Dan Bergstrom, Houston Astros*

*Chris Ralston, Lake Elsinore Storm*

*Mike Boekholder, Philadelphia Phillies*

# John Mascaro's Photo Quiz

## Can you identify this sports turf problem?



Problem: Missing turf  
 Turfgrass Area: Baseball stadium  
 Location: Tampa, FL  
 Grass Variety: 419 bermudagrass



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

*John Mascaro is President  
 of Turf-Tec International*

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# STMA in SAN JOSE

## 7 BREAKOUT SESSIONS: 3:00PM - 4:15PM

### Advanced Logo Painting for Special Events

An advanced presentation of last year's 15 min. innovative. Using Power Point grid and importing images to layout desired logo painting for games and special events. Learn how to make your own stencils and laying out text using various techniques and guidelines.

*Michael Hebrard, Athletic Field Design*

### Defending Against the Indefensible – Poa Strategies that Work

The focus is on keeping the Poa out with a comprehensive defense program more than just herbicide applications, but several lines of defense to be effective. Ways to get rid of Poa once you have it and then emphasize the importance of this program to minimize the reoccurrence. Attendees should come away with some new ideas on how to defend against Poa and be able to apply what they have learned on their own fields.

*Eric Fasbender, CSFM, University of Oregon Athletics*

### Managing Bermudagrass on Sand Based Fields

Sand based fields are characterized as having excellent drainage and aeration, low water holding capacity and low nutrient holding capacity (CEC). The field is like the "Temperamental Star" it has tremendous potential but it can be extremely difficult to manage.

*Gil Landry, Jr., Ph.D., University of Georgia*

### Practical Solutions to Failed Fields

(repeated session from 10:30-11:45am)

This talk will focus on eight to ten case studies of fields that have failed due to poor design, poor construction, inadequate management, or over-use, and will discuss the solutions in these cases.

*Norman Hummel, Ph.D., Hummel & Co Inc.*

### The Perfect Storm

A combination of weather factors including late frost, drought and extreme heat make for extremely difficult growing conditions in the Southeastern U.S. *Waldo Terrell, CSFM, Town of Cary*

## Schedule at a Glance

### Tuesday, January 13

6:00AM - 7:00AM	Continental Breakfast
6:00AM - 9:00AM	Registration Open – San José Convention Center
7:00AM - 4:00PM	Optional: Seminar on Wheels I (additional fee and pre-registration required) Buses depart at 7:00am.
3:00PM - 7:00PM	Registration Open – San José Convention Center
3:30PM - 7:30PM	STMA Certification Exam (pre-qualification and pre-registration required)
6:00PM - 9:00PM	Chapter Officers Training (COTS) & Idea Exchange (pre-registration required) (Chapter Board Members Only) dinner provided

### Wednesday, January 14

6:30AM - 8:00AM	Continental Breakfast
7:00AM - 7:00PM	Registration & Merchandise Open – San José Convention Center
7:00AM - 4:00PM	Optional: <b>SAFE Golf Tournament – Sponsored by Jacobsen, a Textron Company (additional fee and pre-registration required)</b> Buses depart at 7:00am for a shotgun start at 9:00am
7:30AM - 4:00PM	Optional: Seminar on Wheels II (additional fee and pre-registration required) Buses depart at 7:30am.
8:30AM - 11:30AM	Optional: Turfgrass Institute I – Introductory (additional fee and pre-registration required)
12:00PM	Lunch on your own
12:30PM - 12:50PM	<b>Career Center: Crisis Communication. Sponsored by Ewing</b>
1:00PM - 4:00PM	Optional: Turfgrass Institute II – Advanced (additional fee and pre-registration required)
2:00PM - 4:00PM	Pre-Conference Workshops I, II, III (included in full conference registration)
4:10PM - 4:30PM	<b>Career Center: Dealing with a Diverse Work Force Sponsored by Ewing</b>
4:30PM - 6:30PM	Sports Turf Networking Sessions
7:00PM - 7:30PM	First Time Attendees Reception
7:30PM - 10:00PM	<b>Welcome Reception Sponsored by The Toro Company &amp; Covermaster &amp; SAFE Raffle</b>

### Thursday, January 15

6:30AM - 8:00AM	Continental Breakfast
6:30AM - 7:00PM	Registration & Merchandise Open – San José Convention Center
6:45AM - 7:45AM	CSFM Breakfast
7:30AM - 7:50AM	Career Center: STMA PCI Sponsored by Ewing
8:00AM - 10:00AM	<b>General Session: Keynote address by Steve Farber sponsored by World Class Athletic Surfaces</b>

8:00AM - 11:30AM	Turfgrass 101 in Spanish
10:10AM - 10:30AM	<b>Career Center: Extreme Leadership Sponsored by Ewing</b>
10:30AM - 11:45AM	Breakout Sessions – 8 Concurrent Sessions
12:00PM - 1:15PM	STMA Annual Meeting and Lunch
1:30PM - 2:45PM	Breakout Sessions – 8 Concurrent Sessions
2:45PM - 3:00PM	Break
3:00PM - 4:15PM	Educational Sessions – 8 Concurrent Sessions
4:15PM - 7:45PM	Opening of the Trade Show
4:30PM - 7:00PM	1st SAFE Silent Auction Open
6:00PM	Logo Painting Demonstration on Trade Show Floor

### Friday, January 16

6:30AM - 8:00AM	Continental Breakfast
6:30AM - 2:45PM	Registration & Merchandise Open – San José Convention Center
6:45AM - 7:45AM	Past Presidents' Breakfast
6:45AM - 7:45AM	Women's Networking Breakfast
7:00AM - 7:50AM	Innovative Sessions – Three presentations
8:00AM - 10:30AM	<b>5th Annual Student Collegiate Challenge Sponsored by Hunter Industries</b>
8:30AM - 9:30AM	Commercial Member Meeting
9:45AM - 10:00AM	Break
10:00AM - 2:00PM	2nd SAFE Silent Auction Open
10:00AM - 2:45PM	Trade Show Open with Lunch
11:00AM - 12:00PM	Career Center: CSFM Networking Session
12:10PM - 12:30PM	<b>Career Center: Advancement through Association Involvement Sponsored by Ewing</b>
12:40PM - 1:00PM	Career Center: Résumé Writing Sponsored by Ewing
1:15PM - 5:15PM	Optional: Turfgrass Institute III – Turf Pathology (additional fee and pre-registration required)
1:15PM - 5:15PM	Student Forums 1, 2, 3
1:30PM - 2:45PM	Poster Session on Trade Show Floor
2:45PM - 4:00PM	Educational Sessions – 8 Concurrent Sessions
4:15PM - 5:15PM	Educational Sessions – 8 Concurrent Sessions
6:30PM - 7:30PM	<b>Pre-Awards Banquet Reception Sponsored by Kubota &amp; Live Auction</b>
7:30PM - 10:00PM	Awards Banquet

### Saturday, January 17

7:00AM - 9:00AM	Registration Open – San José Marriott
8:00AM - 12:00PM	STMA Certification Exam (pre-qualification and pre-registration required)
8:30AM - 2:00PM	Optional: Offsite Seminar/Workshop conducted by MLB/NFL/MLS (additional fee and pre-registration required)



## Future Technology in Turfgrass Maintenance

This talk will discuss some of the emerging technology that will be coming that will impact this industry. The technology will help managers maintain or reduce costs while consuming less resources.

*Dana Lonn, PE, The Toro Company*

## How Do I Do More with Less?

Being a successful sports turf manager means not only executing well with sufficient funding but also doing it when the funding is reduced. The true test of good management is dealing effectively with your authority. You must manage your resources to their best effect.

*Chuck Pula, City of Winter Springs*

## FRIDAY, JANUARY 16

**7:00AM - 7:50AM Innovative Sessions I, II and III**  
(15 min. sessions)

**I: Post Season Field Restoration** *Bob Marcotte, Texas A&M*

**II: Going Back to Grass** *Darian Daily, Paul Brown Stadium*

**III: How to Conduct a Safety Audit** *David Schlotthauer, BYU*

**8:00AM - 10:00AM**

## Cool-Season Presentations & Q&A

*David Minner, Ph.D., Abby McNeal, CSFM, Mike Trigg, CSFM, Jeff Fowler*

## Warm-Season Presentations & Q&A

*Grady Miller, Ph.D., Ron Hostick, CSFM, Elizabeth Guertal, Ph.D., Chris Calcaterra, M.Ed., CSFM, CPRP*

## Transition Zone Managers Presentations & Q&A

*Bob Campbell, CSFM, Mike Goatley, Jr., Ph.D., AJ Powell, Jr., Ph.D., Jody Gill*

## Synthetic Turf Managers Presentations & Q&A

*Debra Kneeshaw, Andy McNitt, Ph.D., Jay Beals, Mark Nicholls*

**1:15PM - 5:15PM**

## Optional Turfgrass Institute III: Turf Pathology

*Alan Windham, Ph.D., Frank Wong, Ph.D., and Brandon Horvath, Ph.D.*

Using compound and dissecting microscopes, participants will learn the elements of disease diagnosis and will identify turf grasses infected with Pythium, Sclerotinia, Rhizoctonia, etc. Complete full-color booklets will be provided to take home for easy reference.

## 8 BREAKOUT SESSIONS:

**2:45-4:00PM**

## Specific Strategies for Managing Intense Traffic Areas of Cool-Season Athletic Fields

A PowerPoint presentation will be used to fetch out the problems associated with intense traffic on cool season athletic fields. Learn proven strategies and techniques that can be readily implemented in every sports field managers program. The STMA's Playing Conditions Index (PCI) will be



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highlighted as a tool for evaluation.

*David Minner, Ph.D., Iowa State University*

## **John Mascaro's Photo Quiz Comes Alive**

This live presentation of the popular monthly article that appears in SportsTurf Magazine showing photographs of problems that occur on sports turf areas and the causes as well as solutions to these problems. The talk is not only entertaining but lots of fun as well. It is more in-depth than the magazine as additional photos of the problems and solutions to the problems are shown.

*John Mascaro, Turf-Tec International*

## **Turf & Weedy Grass I.D.**

The use of identification keys (including web-based keys) for the identification of desirable turf species and weedy grasses (both warm and cool season species).

*Tony Koski, Ph.D., Colorado State University*

## **Comparison of Organic-Based Fertilizers to Synthetic- Based Fertilizers**

A season long comparison of organic based fertilizer, against synthetic, or mineral based fertilizers. Turf will be cool season, blue/ryegrass. It will be located in North Park, in Lincolnshire Illinois. The results will determine the future fertilization practices in this park.

*Mike Schiller, CSFM, Olsens Distributing & ILSTMA*

*Troy Taylor, Village of Lincolnshire*

## **Community Sports Complex: from Concept to Bid**

*Jay Beals, Beals Alliance*

## **Considerations in the Selection of Renovating a Native Soil Field Versus Replacing with Synthetic Turf**

When trying to decide how best to spend valuable and limited funds on the renovation of athletic fields, all of the stakeholders will have differing opinions and requirements. What are the questions that really need clear answers? A few include: What is your budget? What is the field condition?

*Devin Conway, Verde Design, Inc.*

## **Environmentally Compatible Sports Turf Management (repeated 4:15-5:15pm)**

This presentation will integrate the human and environmental dimensions of sports turf management. Sports turf has the most intimate relationship with its user than any other turf system. In addition the tools and practices needed to meet these needs can have consequences.

*Frank Rossi, Ph.D., Cornell University*

## **Maximizing Irrigation Distribution Uniformity with Catch Can Performance Data**

Will show the benefits of performing a zone-by-zone irrigation audit. Comparisons will be made between catalog precipitation rates and actual field measured values. Water savings, reduction of overly wet areas and overall better turf quality will be demonstrated.

*Jeffrey Gilbert, University of Arizona*

## **4:15PM - 5:15PM**

### **Converting from Cool season Grass to Bermudagrass in Native Soil in the Transition Zone- How to Make it Work for You**

A step-by-step breakdown of processes used to convert cool season grass fields to warm season grass with attention to specific types of equipment and products used.

*Michael W. Sullenberger, Game Day Incorporated*

*Josh McPherson, DC Dept. of Recreation*

### **US Horse Racing Surfaces: Turf, Dirt, and Synthetic**

Gain a better understanding of the types of racing surfaces used in the USA. Also get firsthand information regarding soil and turfgrass composition for 8-15 racing surfaces located throughout the country. Learn something about the variation in dirt track composition for various racetracks.

*Michael DePew, Ph.D., ETS*

### **Multi-faceted Approaches to Managing Community and School Sports Fields**

Review the strategies managers can use when working with and involving end-users including parks and rec agencies, community groups, leagues and schools to secure support for field use policies and resources for managing high-use community and school fields when safety and playability are priorities.

*Joanne Gruttadaurio, Sports Turf Managers of NY*

### **The Politics of Sports Field Management**

Sports field managers who understand the value of good human relations skills can have both great sports fields and great relationships with their "customers." Find out how successful K-12 sports field managers balance their agronomic skills with their people skills.

*Don Savard, CSFM, CGM Salesianum School*

### **Improving Native Soil Athletic Field Drainage**

Renovation to a synthetic or sand-based system is very costly and will render a field temporarily useless. A possible alternative to complete field renovation is the installation of an intercept drain tile system and subsequent sand top-dressing applications providing a cost effective solution.

*Alex Kowalewski, Michigan State University*

### **Environmentally Compatible Sports Turf Management (repeated)**

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*Frank Rossi, Ph.D., Cornell University*

### **Drought Management & Water Conservation**

The presentation will focus on issues facing the turfgrass, golf course and sports field industry as it relates the use, quality, and availability of water for the future.

*Terry Vassey, Ph.D., Cal Poly State University*