



STMA CONFERENCE

Exhibitors' List

SportsEdge 114

Delhi NY

Solutions provider for sports drainage, in-ground jump pits, goal/goal post requirements; customer service is first class.

SPORTSTURF Magazine 136

Chicago IL

Official magazine of the Sports Turf Managers Association

Stabilizer Solutions, Inc. 315

Phoenix AZ

Specializes in infield products such as Hilltopper mound clay, Stabilizer infield mixes, and TurfGrids fibers for turf reinforcement.

StrathAyr Turf Systems USA 634

Seymour Victoria 3661

Designs and constructs high-use, multi-use natural turf sports fields and racetracks, including modular fields and turf repair systems.

Suntec Pain/Game Day 509

Gainesville FL

Manufacturers of Game Day athletic field marking paints, which are non-toxic and environmentally friendly.

Sustane Natural Fertilizer of America 742

Cannon Falls MN

Manufacturer and marketer of natural organic and organic-based fertilizers, thatch reducing and root-stimulating products.

Syngenta Professional Products 522

Raleigh NC

A leading manufacturer of turf and ornamental fungicides, herbicides, insecticides and turf growth regulators.

Terraplas USA Rentals 112

Kilgore TX

Terraplas is a premier turf protection system.

Textron Golf, Turf & Specialty Products 415

Charlotte NC

Manufactures a range of turf maintenance equipment for golf course superintendents, professional lawn care and sports field groundskeepers.

Toro Company, The 347

Minneapolis MN

Manufactures turf and irrigation equipment for a wide range of sports turf applications.

Turbo Link International 130

Clearwater FL

Supplies and installs products to enhance sports facilities at all levels.

Turf Diagnostics & Design, Inc. 657

Olathe KS

A physical testing laboratory and agronomic consulting company that provides cost-effective solutions to turf problems.

Turf Specialties, Inc. 534

Winter Haven FL

Manufacturers of fine turf, 3-pt. hitch verti-cut equipment for athletic fields and golf courses.

Turf-Seed, Inc. 550

Hubbard OR

Provides turfgrass varieties that perform well under closely mown conditions and extreme wear.

TurfSurface/Profile Products, LLC 434

Buffalo Grove IL

Manufacture TURFACE and Pro League infield and turf soil conditioners and mound and home plate clays and blocks.

Turfgrass America 429

Granbury TX

Fast-growing company dedicated to providing high quality sod and sod-related services.

Ty-Crop Manufacturing Ltd. 629

Rosedale BC

A leading brand of simple-to-use topdressing and material handling equipment.

Tygar Turf Blankets (TMSG, Inc.) 250

Cary NC

Blankets allow sunlight and water to pass through, creating a greenhouse environment while retaining moisture and stimulating root growth.

United Horticultural Supply 719

Denver CO

A leading supplier of chemicals, fertilizers and seed to the professional turf industry.

Wessco, Inc. 725

Copley OH

West Coast Turf 414

Scottsdale AZ

The choice of Qualcomm, 3Com, Edison Field, Rose Bowl, LA Coliseum, BOB and more.

Whitlam Paint Company 608

Wadsworth OH

Specialize in long-lasting Pro-Stripe and temporary Temp-Stripe field paints.

Wiedenmann North America, LLC 210

Savannah GA

World Class Athletic Surfaces, Inc. 227

Leland MS

Manufacturer and supplier of high quality athletic field paints, dyes, graphic stencils, strippers, field covers, privacy curtains and other field accessories.



STMA CONFERENCE

Speakers' List

Featured Speaker: Dr. MiMi Paris

An internationally recognized performance expert, MiMi Paris, Ph.D. provides strategy consulting, executive coaching and speaking services.

Attendees at her speaking sessions develop, recommend and believe in their own courses of action. Results are natural and internally motivated rather than externally imposed. Attendees' job-related concerns are identified, their credibility confirmed, and they look good while exceeding their goals and expanding their outcomes. Dr. Paris has built a track record of successfully managing performance associated with rapid organization change. She provides practical, simple solutions for complex problems. Included on her client list are such names as: the Professional Golf Association, Miller Brewing Company, Texas Land and Cattle, Ralston Purina, Clean Channel Communication, and the

National Boys and Girls Clubs of America.

Dr. Paris is the author of a book, "Size Matters" that also contains 21 other truths one should know to enjoy a lifetime of "Effortless Success." Her innovative presentation will help attendees focus on strategizing their own success.

Featured Speaker: Mike Veeck

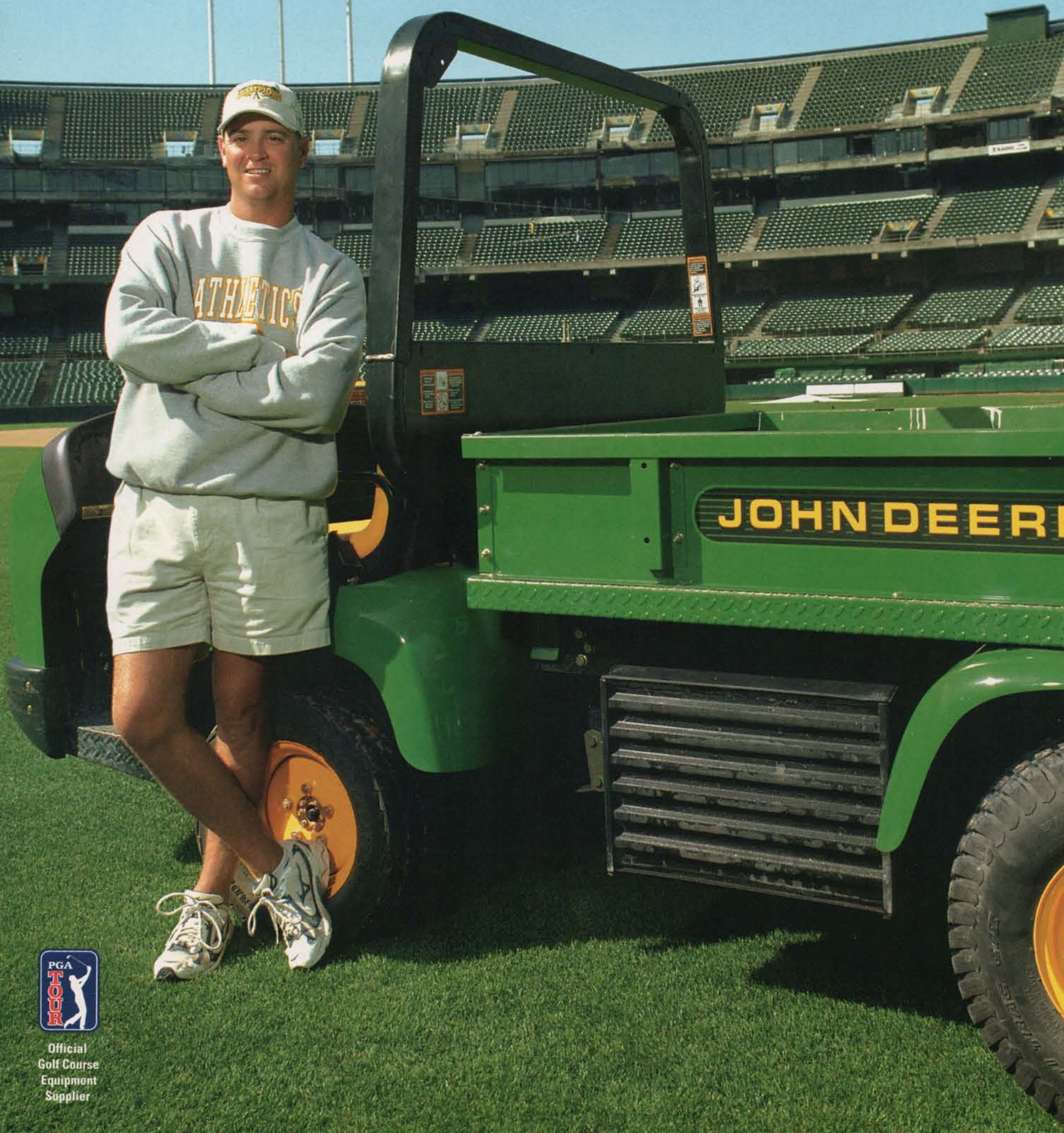
Okay. So maybe Disco Demolition Night didn't go exactly as planned. At least he tried. In fact, Mike

Veeck has made a career of trying what other people wouldn't dare. Who else would hire a dog (Miami Miracle) and a pig (or series of pigs-St. Paul Saints) to deliver baseballs to the home plate umpire, and mimes to perform instant replays between innings?

Mike Veeck makes dreams come true. What makes him special is how he does it. Mike has made a career of understanding that people need to laugh. As part owner of six baseball teams and a consultant with two, he has served to put fun back into baseball. He has proven that his ideas are not specific only to baseball, acting as an advertising professional, popular speaker, founder of the Veeck Promotional Seminar, all-around idea man, and devoted father.



IN OAKLAND, BOTH THE A'S AND THE
RAIDERS KNOW THAT IT
TAKES CLAY TO MAKE A GREAT FIELD.



Official
Golf Course
Equipment
Supplier



There isn't much of an off-season at Network Associates Coliseum in Oakland, California. At least not for Head Groundskeeper Clay Wood and his grounds crew. After maintaining a diamond for most of the year for the baseball

Athletics, Clay and his crew have to make sure the field is ready and striped for the football

Raiders. To keep both clubs running on a good surface, Clay and his crew rely on John Deere turf equipment. "I won't buy anything else," says Clay. "John Deere equipment has come full circle. They have great quality in terms of mowers, reels, and blades. The 1200A Field



Rake is a real workhorse for us. And I've never heard anybody say anything but good things

about the 2653A Utility Mower. It's great quality and a great relationship." To see John Deere

perform on your field, call your local John Deere turf distributor or 1-800-537-8233.

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STMA CONFERENCE

Speakers' List

Thursday, January 16

GENERAL SESSION

8:00-8:15 am - Welcome 2003:

Big as the Heart of Texas

Murray Cook, STMA President, SPORTSTURF Services, The Brickman Group, Ltd.

8:15-9:15 am - My Biggest Challenge of 2002

What you'll hear: In this session, the speakers will each have ten minutes to present their greatest challenge of the year, and explain what they've done to overcome it.

Developing a Flexible Turf Management Strategy in the Western Transitional Zone

Eric Hansen, Los Angeles Dodgers

Moderate temperatures on the West Coast typically result in incomplete transition of overseeded bermudagrass at Dodger Stadium. The 2002 summer was unseasonably cool resulting in little transition and a high percentage of ryegrass going into the off-season. The infield turf is the primary area of concern. The challenge of 2002 has now become a challenge for 2003. The challenge becomes: Do I manage in favor of the perennial ryegrass over the bermudagrass in hopes of another cool summer or should a more balanced approach be taken?

Coping with Spring of 2002 - Weather and More

Luke Yoder, Pittsburgh Pirates

What you'll hear: The weather is always a problem for a sports turf manager. In fact, most complain about the weather as much, or more, than anything else. It's never the way we want it. Pittsburgh's weather in the spring of 2002 brought bitter cold temperatures in late March and lots of rain in April and May. Our opening day work was up to the last minute trying to get everything game ready. The day before opening day, two of our crew members were driving to work together. They did not make it. They were involved in a terrible accident right outside the ballpark. Suddenly, something that was so important five minutes earlier took a back seat. We knew right away that we had a long spring ahead of us.

Growing Grass in Low Light Conditions

Grant Trenbeath, Arizona Diamondbacks

What you'll hear: It's tough enough growing grass within the restricted light conditions caused by the physical structure of a stadium. It becomes that much harder within the confines of a closed dome. Grant Trenbeath will share both the challenges of growing grass in low light conditions and the strategies he's found to cope with them.

Working with Events Scheduling

Ross Kurcab, CSFM,

Invesco Field at Mile High

What you'll hear: I believe our biggest challenge comes the frequent scheduling of non-sporting

events. In between our "big house" events, such as football and soccer games, we have many other smaller events on the field. These range from things like corporate team building seminars to such events as the filming of commercials and public service announcements, tours, and game-related promotional events related to ticket promotions and entertainment. We also have many requests for game entertainment rehearsals. None of these events impact our field management greatly when taken alone. However, the frequency of such events adds up to turf damage, and gets in the way of our normal maintenance procedures. For example, we don't want to be doing a fertility spray application during a field tour because of potential wind drift. Working around these frequent events is our biggest challenge.

Keeping a Stable Playing Surface in Wet Conditions

Jay Warnick, CSFM, Seattle Seahawks

In the NFL the crunch time is in November and December. Teams are bearing down trying to make the playoffs. Each practice is critical. It's essential to successful practice that the field be in top condition to facilitate that. In the Seattle area, it's typical to have upward of 20 consecutive days of precipitation during that period. Our biggest challenge is to keep the surface playable to meet those demands. Jay Warnick, CSFM, will present some of the strategies they use to make that happen.

Turf Transitions from Other Events to Playing Condition

Mark Clay, SMG Jacksonville/Jaguars

What you'll hear: This session will track the turf from the Gator Bowl through a Monster Truck event back to fall play. Mark Clay will discuss the different techniques and cultural practices used to transition through these events with a Bermudagrass base and overseeded perennial ryegrass - without resorting to sodding.

(The Super Bowl will take priority for all NFL participants)

9:15 - 9:45 am - Questions To The Panel

What you'll hear: The six speakers will answer questions from attendees related to their Biggest Challenges as presented in the opening session.

10:00-10:15 am - Presenting Your Field to the Press and Public

Alan Cannon, Sports Information Director, Texas A & M University

What you'll hear: Sports Information Directors are

often in the middle of the information flow, getting input from the University side and delivering it in a useable format to the press and the public. This presentation will include some pointers to help sports turf managers work with the Sports Information Director to deliver key details about the athletic fields.

10:15-10:30 am - What the Media Wants

Evan Grant, sports writer, Dallas Morning News

What you'll hear: This session will focus on how Sports Turf Managers can best communicate their message to reporters. When reporters have questions for sports turf managers, they are usually simply looking for information on a subject about which they know very little.

10:30-10:45 am - Questions to the Panel

What you'll hear: Alan Cannon and Evan Grant will answer questions from attendees related to the interaction between sports turf managers, the media and the public.

10:45-11:30 am - Thinking Beyond the Ballpark

Mike Veeck, Consultant and Team Owner

What you'll hear: With his typical wisdom and humor, Mike Veeck will take you beyond the ballpark and the everyday demands of sports field management to new levels of thinking - and a new perspective.

CONCURRENT SESSION - 12:30-3:45 PM

There will be four topics within each of the four tracks during this concurrent session. The topics will run for 45 minutes each with a 15 minute break between the second and third topics in each session.

COOL-SEASON BASICS TRACK

Eight Steps to An Easy Field Facelift

Jeff Fowler, Penn State Cooperative Extension

What you'll hear: Over the course of the last 5 years, field managers and school district employees have called looking for assistance. After visiting 50 or so fields and witnessing some trends, taking some pictures and talking with lots of people, I put together the eight things that I most commonly recommended to field managers as a way to improve field playability and safety. These eight items are the ones that if put together will give your fields a new look and, even more importantly, make them safer for your users. "Eight Steps To An Easy Field Facelift" will also make your job as a sports turf manager a little bit easier on a day-to-day basis as we take a look at some of the most common problems with fields and a practical solution to these problems.

Fertilization of Cool-Season Sports Turf

Speaker: Mary Owen, University of Massachusetts Cooperative Extension





Fielder's Choice

It's hard to go wrong when you're choosing between two new warm-season turfgrass varieties as outstanding as SeaIsle 1 Seashore Paspalum and TifSport Bermudagrass. These two new patented cultivars can only be sold as certified sod or sprigs, and only by a member of a select group of licensed growers. Our top-quality producers have agreed to a stringent set of production practices. This means the grass you buy from a Florida, Georgia or South Carolina grower is going to be the same grass you buy from a Texas or California grower. And it'll be the same 10 years down the road. If you're involved with the installation or on-going maintenance of a sports field, you'll really appreciate how these turfgrasses compare to Tifway 419 and the other older varieties in use today.

While SeaIsle 1 is similar in texture and wear tolerance to hybrid bermudas, it may offer a number of important advantages. First and foremost, it can handle multiple stresses: prolonged drought, high salt levels, waterlogging and extremely high or low soil pH levels. Secondly, SeaIsle 1 can tolerate most types of alternate water sources, including wastewater, effluent, gray water, brackish water, and even ocean water. It requires less irrigating, less fertilizer and only minimal pesticide applications when compared to other warm-season cultivars. It also handles cloudy conditions and the low light intensity of domed stadiums extremely well. That's why it was such a good choice for the Houston Astros' new field. Take a look at its pluses and specify SeaIsle 1 for your new sports field or renovation project.

SeaIsle 1
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Looking for a bermudagrass that can stand up to the stress and demands of big-time sports, to the wear and tear of football and soccer cleats, to the punishment of baseball slides, dives and spikes? Relax; you've found it. TifSport has outstanding color, disease resistance and cold hardiness, too. In fact, TifSport is performing with flying colors as far north as FedEx Field in Landover, Maryland. It's also the Houston Texans choice for their new retractable roof Reliant Stadium. If you're a sports turf manager, you know what's important for a playing field - outstanding density, turf strength and turf quality. You need a grass that recovers quickly from day-in-and-day-out abuse. And that's just what TifSport has been bred to do. Be sure to ask for TifSport certified bermudagrass by name.

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STMA CONFERENCE
Speakers' List

What you'll hear: This session will cover the basics of fertilization specific to cool-season turf on athletic fields. We'll discuss nutrients and how they affect turfgrass growth, stress tolerance and recovery.

Basic Weed Control for Cool-Season Turf

Anne Streich, University of Nebraska - Lincoln
What you'll hear: This session will stress the sequence of decisions and actions necessary for a good weed management program in cool-season turf. Specific topics will include weed identification and biology, using indicator weeds to correct problem sites, selection of herbicides, and proper application timing for ideal weed management.

The Quantitative Effect of Cultural Practices on Sports Turf

Speaker: Dr. John N. Rogers, III, Michigan State University

What you'll hear: This session will investigate the recent research conducted at Michigan State University to quantitatively establish the relationship between inputs (mowing, fertilization, cultivation) and outputs (games played). The results of this study are aimed at providing information to be transferred from the field manager to the administrator to show the importance of cultural practices to field longevity.

WARM-SEASON BASICS TRACK

Top Ten Q & A

Dr. Grady Miller, University of Florida
What you'll hear: This presentation will provide timely advice and professional opinions related to commonly asked questions, many of which have found their way onto the back page of SPORTSTURF magazine in the Q & A column. Dr. Grady Miller will illustrate the various scenarios and responses from at least ten of the Q & A questions.

Basic Weed Control for Warm-Season Turf

Dr. Bert McCarty, Clemson University
What you'll hear: This session will stress the sequence of decisions and actions necessary for a good weed management program in warm-season turf.

Facts Versus Myths

Dr. Tom Samples, University of Tennessee
What you'll hear: Although there are many different ways to construct athletic fields and manage sports turf, the basic needs of the turfgrasses must be met. Soil conditions may be ideal for turfgrass growth; however, turfgrass performance may be limited by low light, poor air movement or the weather. An understanding of how turfgrasses grow makes their management much easier. Several facts and myths concerning mowing, irrigation, fertilization and cultivation will be discussed during this presentation.

Fertilization of Warm Season Sports Turf

Dr. David Kopec, University of Arizona
What you'll hear: This session will cover the basics of fertilization specific to warm-season turf on athletic fields. It will examine how and why the fertilization of warm season turf is very different from that of cool season fertilization. Attendees will become more familiar with the common terms relative to fertilizer selection so they can become smart shoppers.

TRICKS OF THE TRADE TRACK

From Disaster to Game Time

Kalin Stovall, Colorado State University
What you'll hear: This session will focus on post event native soil field repair and recovery with the goal of preparing a damaged field for the next event. Strategies for preventing damage as well as techniques for repairing different types of damage will be discussed. The session will culminate with a photo journal presentation of a twelve-day period in 1999 during which a football field that was severely damaged by plowing snow was made ready for the next game.

Juggling Multiple Field User Groups

Dan Bergstrom, Lincoln Professional Baseball
What you'll hear: In this session, Dan will discuss the intricacies of working at Haymarket Park, in Lincoln NE, a ballpark where Division I college baseball and softball overlap with the professional baseball season. Working with different ownership groups, community groups, and a major college administration will be discussed in addition to the turf and field management aspects of the ballparks. Topics related to working with coaches and the media will also be covered in this presentation.

The Big Picture - Texas A & M Multiple Fields

Speaker: Craig Potts and Leo Goertz, Texas A & M University
What you'll hear: This session will cover the short history of the development of the field staff at Texas A & M. It will include a brief history of all of the facilities, both the stadiums and fields. The maintenance practices of all of the athletic fields will be discussed, including cultural practices, field uses, and game preparations. Craig Potts and Leo Goertz will discuss the various tips and tricks that they find useful in helping prepare the fields for games and practices.

Eight Years in the Life of a Sand-Based Field

Bob Campbell, CSFM, University of Tennessee
What you'll hear: This session will cover the matur-

ing process of the sand field from the planning stage through the years of use. It will discuss the maintenance practices that have developed through trial and error. It will examine the changes in the physical properties of the field from construction to the present and the changes in the field's performance. A comparison will be made between the anticipated conditions based on the preconceived perceptions of what would occur and the realities of the field as it evolved. The results of testing will provide quantitative data for comparison of such details as the fertility requirements and maintenance practices that pre-installation research had predicted versus those actually developed to meet field needs.

THE TECHNICAL TRACK

Nutrient Management Plans for Sports Fields

Dr. Richard White, Texas A & M University
What you'll hear: This session will cover the technical aspects of nutrient management plans specific to sports fields.

Aerification Principles for Sports Turf

Dr. Gil Landry, University of Georgia
What you'll hear: The need for aerification is probably one of the most commonly overlooked management practices on sports fields. This is probably being more emphasized as more native soil fields become modified in an attempt to improve surface conditions but ultimately produces a new set of factors to consider. This session will help identify specific reasons for aerification such as surface compaction, soil type, soil layering, thatch removal, soil modification, or renovation. It will also address method of and timing of aerification in relation to soil type, grass type, period of growth, and field use. Finally, it will review recent research in this area and provide a guideline for establishing and monitoring aerification needs.

Adventures with Turf Covers

Ross Kurcab, CSFM, Invesco Field at Mile High
What you'll hear: Turf covers are an important protective tool for athletic fields. They block excess precipitation that could be detrimental to playing conditions. They reduce the damage potential of non-sports events such as concerts. This presentation will explore what happens under the covers and how that impacts the turfgrass, both short- and long-term.

Microbiology of Sports Turf Soils

Dr. David Zuberer, Texas A & M University
What you'll hear: This session will cover the technical aspects of microbiology as related to sports turf soils.





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STMA CONFERENCE
Speakers' List

Friday, January 17

Morning Series of Workshops (at Henry B. Gonzalez Convention Center)
Choose one workshop (8:00-10:00 AM)

Sports Fields: How They Wear & What You Can Do About It

Dr. Dave Minner, Iowa State University
What you'll hear: This workshop will specifically deal with athletic field traffic by providing strategies that the Sports Turf Manager can use to maintain both cool and warm season grasses under intense traffic situations. It will also provide written information that can be presented to administrators so that they can make important decisions regarding the amount of activities that are allowed on a field. My latest survey estimates of how much traffic is too much traffic will be presented. Participants will fill out a 10-minute survey about traffic on their specific facility. Traffic will be explained in terms of wear and compaction with a special emphasis on how to manage a protective mat of vegetation over the soil.

Add To Your Supervisor Tool Kit

Boyd Montgomery, CSFM, Sylvania (OH) Recreation
And Mike Trigg, CSFM, Waukegan (IL) Park District

What you'll hear: This session will cover some of the management side of being a sports turf manager. It will address performing sports field inspections to guard against liability situations. Attendees will discuss the use of field permits and contracts for use of their facilities. Also addressed will be how to develop good employee training programs and needed safety and liability forms so the facility is covered in the event of a problem. Another area of discussion will be development of budgets and effective ways to sell your budgets to your boss and board.

Soils - The Basics

Speaker: Dr. Henry Indyk, GSI Consultants/Turfcon

What you'll hear: The agronomic principles of soils are the foundation upon which the entire sports field rests. In this workshop, you'll go back to the basics of those principles and build from there to gain a comprehensive understanding of the complex interactions that take place within the soil profile and how you can manipulate those interactions to improve your athletic field maintenance program.

Water Quality

Speaker: Dr. David Kopec, University of Arizona
What you'll hear: Water quantity isn't the only factor affecting turfgrass growth and strength. This workshop will address the important issues of water quality as related to turfgrass and specifically to sports field maintenance programs. It will include discussion of the most common problems and terms associated with water quality and turf. The

attendees learn to understand most parts of a water quality report and what it means for turfgrass management.

Seed Physiology and Seed Priming

Speaker: Gilbert Pulley, Brigham Young University

What you'll hear: This workshop is a review of some of the seed treatment methods used to decrease the time necessary to germinate specific grass species. It will include a discussion of advantages and disadvantages of these methods and possible reasons for how these methods work.

Understanding Your Soil Test Report

Dr. Tony Koski, Colorado State University

What you'll hear: This workshop will increase your understanding of what all of those numbers on your soil test report are trying to tell you about your soil. We will learn which numbers are the most important ones to pay attention to. Workshop participants will learn how to turn those soil test numbers into an actual fertilizer application. Practical application of the soil testing process to everyday life as a sports turf manager will be emphasized. (This workshop will be repeated in the afternoon session.)

Establishment and Renovation Techniques and Research

Dr. John N. Rogers, III (Trey), Michigan State University

What you'll hear: This workshop will investigate various techniques surrounding the perennial chore of renovating and establishing sports fields. Topics to be covered include studies involving turfgrass species, mulches, crumb rubber, turf covers, and athletic field systems comparisons.

Spray It or Spread It - Are You Getting It Right?

Dr. Tom Samples, University of Tennessee

What you'll hear: This workshop is intended for those of us who have been frustrated while trying to adjust a power sprayer or fertilizer spreader to uniformly deliver the exact amount of product to sports turf. Learn calibration tips to help you apply fertilizers and pesticides accurately. Past, present and future application technologies and product formulations will also be discussed.

Fertility Programs For Sports Fields

Dr. Grady Miller, University of Florida

What you'll hear: This workshop will provide an overview of turfgrass nutrient requirements; fertilization effects on turf health; soil properties that influence nutrient interactions in the soil; characteristics of fertilizer carriers and how to use them; and devel-

oping fertilization programs for specific turfs. Topics will include information related to warm- and cool-season grasses, plus overseeding situations.

Competition Within The Canopy

Dr. Mike Goatley, Mississippi State University

What you'll hear: One of the goals of a sports turf manager is to produce the densest playing surface possible in order to enhance aesthetics and playability. However, a downfall in maximizing turf density is the inevitable development of competition of the turfgrass plant for space, light, air, water, and nutrients. In this workshop, participants will learn why and how plants respond to specific cultural management strategies that affect turf density, and how to apply this knowledge in developing programs that balance density and canopy competition.

Afternoon Series of Workshops (at Henry B. Gonzalez Convention Center)
Choose one workshop (3:00-5:15 PM)

Sports Fields: How They Wear & What You Can Do About It

Dr. Dave Minner, Iowa State University

What you'll hear: This workshop will specifically deal with athletic field traffic by providing strategies that the Sports Turf Manager can use to maintain both cool and warm season grasses under intense traffic situations. It will also provide written information that can be presented to administrators so that they can make important decisions regarding the amount of activities that are allowed on a field. My latest survey estimates of how much traffic is too much traffic will be presented. Participants will fill out a 10-minute survey about traffic on their specific facility. Traffic will be explained in terms of wear and compaction with a special emphasis on how to manage a protective mat of vegetation over the soil. Agronomic strategies discussed include: aeration, soil amendments, grass species and variety selections, using bermuda in the north, coring, seed vs. sod, and topdressing with sand or crumb rubber. Participants will gain a better understanding of traffic in terms of the total amount of activities on a field rather than counting the number of games that are played. This workshop is equally split between grass growing techniques and communication strategies to limit traffic.

Sub-Irrigation for Sports Fields

Dr. Bernd Leinauer, New Mexico State University

Sprinkler irrigation has been the accepted practice for irrigating turf areas since the late 19th century, despite its low efficiency in distributing water to the plant stand. Sprinkler overlap, wind drift, and evaporation losses during the irrigation process all contribute to water losses that increase overall water consumption and/or decrease plant stand quality. Poor water distribution due to high winds and the lack of sufficient quantities of water are the two greatest challenges that turf managers face in the

