

MILLCREEK MANUFACTURING CO. 1019
Leola PA

Millcreek manufactures three sizes of topdressers. They are the Turf Tiger 4300 and the Turf Tiger Cubs models 3100 and 3200. www.millcreekmfg.com

MILLIKEN TURF PRODUCTS 821
Spartanburg SC

Milliken Turf has provided superior products to the turf market for 20 years. Our Emerald Isles product line offers foliar nutrition products derived from sea-plant extract. The Blazon spray pattern indicator is the only non-staining SPI of its kind. www.millicenturf.com

MISSOURI TURF PAINT 1113
Kansas City MO

Manufactures and distributes products used in athletic field marking, including bulk and aerosol paint, turf dye, stencils, application equipment and marking systems/accessories. www.missouriturfpaint.com

NEWSTRIPE, INC. 918
Aurora CO

Newstripe is a manufacturer of walk-behind and ride-on field marking machines, drag mats infield groomers and stencils. www.newstripe.com

NOVOZYMES BIOLOGICALS 835
Salem VA

Produces microbes used in high quality turf products such as biostimulants, micronutrients, mycomhiza distributed by Cleary Chemicals. www.novozymes.com

PAR AIDE PROFESSIONAL FIELD CARE 225
Lino Lakes MN

We are committed to providing sports turf managers with the finest, professional grade tools and accessories available. www.paraide.com

PARKS & REC. BUSINESS/NORTHSTAR PUBLISHING
Jackson NJ

Parks & Rec. Business is published monthly, and features the latest news and products, plus lively features and profiles. Dedicated to bringing the 15,000 parks and recreation professionals across North America the latest and best information to help them run their departments efficiently and profitably. www.parksandrecbusiness.com

PEAT, INC. 319
Elk River MN

A unique golf, sports turf and horticulture peat supply company affiliated with Plaisted Companies which allows them to control the quality of the process from peat harvest to final mix. www.peatinc.com

PENNINGTON SEED, INC. 424
Madison GA

Provides high-quality warm- and cool-season turfgrass varieties such as Princess-77 Hybrid Seeded Bermuda and Applaud Perennial Ryegrass. www.penningtonseed.com

PICKSEED WEST, INC. 321
Tangent OR

As a leading developer of high performance turfgrass for more than 30 years, Pickseed West has been committed to high standards of performance that

ensure reliable product availability, delivery and support. www.pickseedwest.com

PIONEER MANUFACTURING 535
Cleveland OH

Specializes in providing quality stadium and athletic maintenance products. Sells striping machines, aerosol and bulk paints, stencils and field maintenance products. www.pioneer-mfg.com

PRO'S CHOICE SPORTS FIELD PRODUCTS 619
Chicago IL

Premium sports turf products for all your soccer, football and baseball needs. Pro's Choice is going the extra yard for healthy turf. www.proschoice1.com

RAIN BIRD CORPORATION 418
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Pittston PA

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Memphis TN

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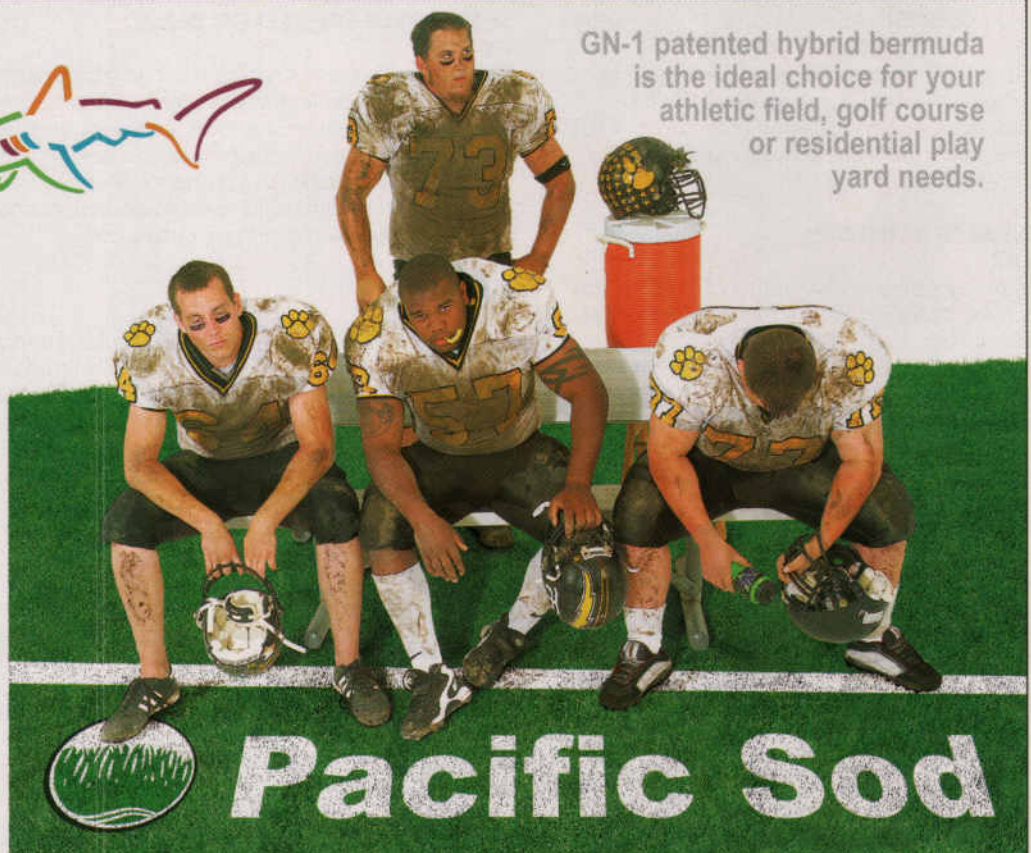


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exhibitors

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REEF INDUSTRIES, INC. 438

Houston TX

Griffolyn is a division of Reef Industries which manufactures athletic field covers that offer high strength, reinforced construction that resists tears, punctures and rough handling, yet is lightweight for ease of deployment with limited personnel. Reef also manufactures high quality durable gym floor covers, stadium covers, sideline covers, fungo tarps, and arena covers. www.reefindustries.com

REELCRAFT INDUSTRIES, INC. 435

Columbia City IN

Manufactures and markets a wide variety of water hose reels including the DGM underground retractable hose reel system for sports turf applications. www.reelcraft.com

REIST INDUSTRIES, INC. 719

Elmira ON

Serves the national and international markets offering custom machine shop innovations and the ESAB Sabre 3000 high current Plasma Cutter. www.reistindustries.com

ROLA-TRAC NORTH AMERICA 541

Van Buren AR

Rola-Trac North America offers sales and rentals of portable floors and roadways. Fast, durable and safe with excellent turf protection. www.rola-trac.net

ROTADAIRON EMREX, INC. 936

Pittston Township PA

Developed an international expertise in the domain of golf and landscape through its industrial and commercial presence in Europe and North America and has saved up to 35% in labor costs for sports field renovators. www.mge-dairon.com

RTF TURF PRODUCERS ASSOCIATION 828

Mead NE

Rhizomatous Tall Fescue (RTF) is a new type of tall fescue, which produces rhizomes. The RTF Turf Producers Association controls the production of RTF sod and maintains the highest quality standards for RTF sod. www.aboutrtf.com

SEED RESEARCH OF OREGON 631

Phoenix AZ

Research, production and distribution of professional turf grass seed designed for the turf grass manager. www.sroseed.com

THE SCOTTS COMPANY 534

Avon Lake OH

Offering an exclusive line of turfgrass seed products. Products include exclusive and non-exclusive varieties and proprietary brands, including Double Eagle seed blends and mixtures. www.scottsproseed.com

SISIS, INC. 1007

Sandy Springs SC

Since 1932, Sisis has been developing a wide range of sports turf and fine turf maintenance equipment including dethatchers, aerators, groomers and much more. www.sisis.com

SOILOGIX, INC. 306

Irvine CA

Soilogix offers premium fertilizers and organic soil conditioners that use a process called carbon fertilization to combat the negative effects that salts, chemicals and pesticides have on the soil. The products clean the soil of harmful chemicals, accelerate recov-

ery from wear and damage and produce full healthy turf and ornamentals. www.soilogix.com

SOUTHERN ATHLETIC FIELDS, INC. 822

Columbia TN

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.mulemix.com

SOUTHERN GREEN, INC. 201

Zachary LA

Makers of the soil reliever deep tine aerification system that assists turf professionals in their goal to ensure that the grounds are kept at their finest year-round. www.soilreliever.com

SPORTEXE 1128

Round Rock TX

Proud to be North America's #1 sports surfacing company. Sportexce manufactures 108 different artificial sports surfaces and supplies over 13,000 sports equipment products. www.sportexce.com

SPORTSTURF MAGAZINE/GREEN MEDIA 202

Chicago IL

The official magazine of the Sports Turf Managers Association. www.greenmediaonline.com

SPORTS TURF COMPANY, INC. 522

Whitesburg GA

Sports field construction company specializing in general contracting, construction management of design/build projects, construction/renovation of athletic fields for municipalities, schools, colleges/universities and professional teams. www.northgeorgiaturf.com

SPORTS TURF ONE, INC. 1122

Boynton Beach FL

The southeastern United States leader in design/build. Unmatched efficiency and quality. The one-call full service company. www.sportsturfone.com

SPORTSFIELD SPECIALTIES, INC. 1033

Delhi NY

Sportsfield Specialties Inc. is the innovative, national leader in the sales and manufacture of sports construction equipment. Exemplary service from specification to installation, coupled with outstanding product quality provides our customers with a high level of confidence throughout the design and construction process. www.sportsfieldspecialties.com

SPRINTURF 312

Wayne PA

Sprinturf is the single largest provider of synthetic turf systems in the United States. A vertically integrated company that provides solutions for stadiums, lawns, golf courses, playgrounds, and more. Sprinturf has developed many innovative products among them the ground-breaking Ultrablade fiber. www.sprinturf.com

STABILIZER SOLUTIONS, INC. 318

Phoenix AZ

Specializes in infield products such as Hilltopper Mound Clay, Stabilizer infield mixes, and TurfGrids fibers for all types of turf reinforcement. www.stabilizersolutions.com

SUBAIR SYSTEMS, LLC 207

Graniteville SC

Products and services include sub-surface aeration and hydronic temperature control. www.subairsystems.com

SUN GRO HORTICULTURE, INC. 235

Simpsonville SC

Sun Gro Horticulture is the largest producer of

Canadian sphagnum peat moss in Canada. Sun Gro specializes in sport field peat moss. www.sungro.com

SUPATURF PRODUCTS USA 1105

Sandy UT

Supaturf's Topline System of innovative line-marking machines and high quality paints provide convenience, cost savings and outstanding lines. www.supaturf.com

SUSTANE NATURAL FERTILIZER OF AMERICA, INC. 1115

Cannon Falls MN

Sustane granulated slow release fertilizers replenish the soil with a rich supply of humus and the essential nutrients required for long-term soil building and plant growth. www.sustane.com

SYNGENTA PROFESSIONAL PRODUCTS 623

Raleigh NC

Syngenta is the basic manufacturer of quality fungicides, herbicides, insecticides and plant growth regulators. www.syngentaprofessionalproducts.com

SYNTHETIC TURF COUNCIL 206

Dalton GA

Synthetic Turf Council is a trade organization representing the synthetic turf industry. www.syntheticturfCouncil.org

TERRAPLAS USA RENTALS, LLC 1035

Kilgore TX

The leader in field protection services with hundreds of U.S. clients. "Protecting your turf as if it were our own." www.terraplasusa.com

TIFTON TURF FARMS, INC. 419

Tifton GA

Tifton Turf Farms provide certified sod/sprigs, laser grading, athletic field construction and renovation.

THE TORO COMPANY 301

Bloomington MN

Manufactures turf and irrigation equipment for a wide range of sports turf applications. Products include rotary and reel mowers, vehicles and turf cultivation equipment. www.toro.com

TURBO LINK INTERNATIONAL, INC. 308

Clearwater FL

Turbo Link International, Inc. is capable of building natural or synthetic fields including site preparation and drainage systems. We are the sole distributor for Polytan synthetic turf and track systems in the United States. www.turbolinkintl.com

TURF DIAGNOSTICS & DESIGN 325

Linwood KS

A soil testing and agronomic consulting company. www.turfdiag.com

TURF-SEED, INC. 823

Hubbard OR

Turf-Seed, Inc. is a family-owned company providing premium turfgrass seed to the sports turf industry, worldwide. www.turf-seed.com

TURF SPECIALTIES, INC. 914

Lakeland FL

Manufacturers fine turf, 3-point hitch verticut equipment for athletic fields. www.turfspecialties.net

TURFACE ATHLETICS 607

Buffalo Grove IL

Turface provides sports field conditioners to amend infields for safe playing surfaces. www.turface.com



Kevin Meredith
Turf Manager
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There are four fields at the National Soccer Hall of Fame in Oneonta, New York, and according to Kevin Meredith, Turf Manager, “The Smithco Super Liner is great, This machine is going to make my life a lot easier”. It could do the same for you. That’s because the Super Liner is not only self riding, it

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(Right: Don Smith President of Smithco with Kevin Meredith)



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TURFGRASS AMERICA 601

Bay City TX
Dedicated to providing the highest quality sod and sod-related services. www.turfgrassamerica.com

TURF-TEC INTERNATIONAL 421

Coral Springs FL
Manufactures soil samplers, infiltrometers, penetrometers, and various testing equipment for sports fields. www.turf-tec.com

TY-CROP MANUFACTURING LTD. 113

Rosedale BC
Designs and manufactures simple material handling and topdressing equipment. www.tycrop.com

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VALLEYCREST COMPANIES 323

Calabasas CA
Provides the entire range of landscape services including irrigation, hardscapes, and sports turf. www.valleycrest.com

VPI SPORTS 731

Memphis TN
VPI Sports is a one-stop source for all field equipment, custom netting, padding and sports equipment. www.vpisports.com

WATERWICK, INC. 939

Southampton NY
WaterWick gravel injection system dramatically improves drainage without disturbing the soil surface. www.waterwick.com

WEST COAST TURF 911

Palm Desert CA
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WIEDENMANN NORTH AMERICA, LLC 919

Savannah GA
Wiedenmann North America, LLC is a German-based company that manufactures deep tine aerators, spikers, slicers, and other turf equipment. www.terraspike.com

WORLD CLASS ATHLETIC SURFACES, INC. 827

Leland MS
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speakers

KEYNOTE SPEAKER: Larry Helms, Ph.D.

Positioning to Win: Using Your Head to get Ahead
Thursday, January 19, 10:30 - 11:45AM

Larry Helms holds a Ph.D. from the University of Michigan and a post-doctoral certificate in management from Harvard University. He is a former Fulbright Scholar, Standish Evans Scholar, and has authored five books and numerous articles. He is regarded as one of the nation's leading authorities in adult learning and behavioral change. He holds the Certified Speaking Professional (CSP) designation, the highest earned award given by the National Speakers Association. Success doesn't just "happen" in professional life. To be successful, or to "win" requires positioning yourself to take certain necessary steps. Learn how realistic self-discipline, self-control, hard work, and other strategies come together to help position you for the future.

THURSDAY, JANUARY 19

8:00 - 8:20AM

Welcome to STMA's 25th Year
Mike Trigg, CSFM, STMA President,
Waukegan Park District

8:20 - 9:30AM

A View to the Past - Panel Presentation
Moderator: Gil Landry, Ph.D.
Panelists: Steve Wightman, Joe Motz, Reggie Williams, Steve Cockerham

Hear reflections of the industry from those who helped lead the profession through the early years to its significant place in the sports world today. An informal conversation with a panel of industry representatives about

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various changes that have occurred over the past 25 years.

9:30 - 10:15AM

The Future of the Profession

Andy McNitt, Ph.D., Pennsylvania State University
Dave Minner, Ph.D., Iowa State University

Learn what's on the horizon for the sports turf manager in the emerging technology for equipment, turfgrasses, design and construction, facility management. Also learn about new sports that will challenge the role of sports turf managers.

CONCURRENT SESSIONS

1:30 - 4:00PM

There will be 4 concurrent sessions with 3 presentations of 50 minutes each.

Athletic Field Management

Moderator: Lance Tibbetts, CSFM

1:30 - 2:20PM

Your Role in Facility Risk Management

Eric Fasbender, University of Oregon Athletics

More and more groundskeepers have to contend with outside users in our facilities. This talk will address how to protect yourself and your facility against usage from these groups. Heavy emphasis on planning and communication will be covered.

2:20 - 3:10PM

The Intramural Blues - Managing Intense Traffic and Multiple Sports

Sam Jones, University of Delaware
Jim Cornelius, West Chester Area School District
Nick Gammill, CSFM, American University

The ability to convince a School Board and the public as to why limiting athletic fields to minimal outside group use and protecting the fields for school athletes is in the best interest of everyone. Even with the limited number of fields available it can be done with proper documentation and truthful facts. This talk will also focus on maintenance programs for overused intramural fields.

3:10 - 4:00PM

Getting Everyone on Board to Perform!

Greg Petry, Waukegan Park District
 With limited budgets and tight deadlines, it is essential that everyone work together to produce the desired results. We need to mobilize all of our resources to meet the needs and demands of those we serve. Building commitment, trust, and cooperation amongst your staff will be explored.

Managing the Bermudagrass/Ryegrass Transition

Moderator: George Trivett, CSFM

1:30 - 2:20PM

Cultural and Chemical Strategies to Remove Overseeded Perennial Ryegrass from Bermudagrass

Bert McCarty, Ph.D., Clemson University

This talk will list and discuss agronomic means of spring transition from overseeded Ryegrass to Bermudagrass. Included will be strategies of possibly incorporating herbicides to aid in this transition. Considerations of environmental, aesthetic, and turf health will be included.

2:20 - 3:10PM

Bermudagrass and Ryegrass - Making the Transition in the Deep South

Leo Goertz, Texas A&M University
James McAfee, Ph.D., Texas A&M University

"The quick and easy of Ryegrass transition in the deep south." For this transition process to work, it is impor-

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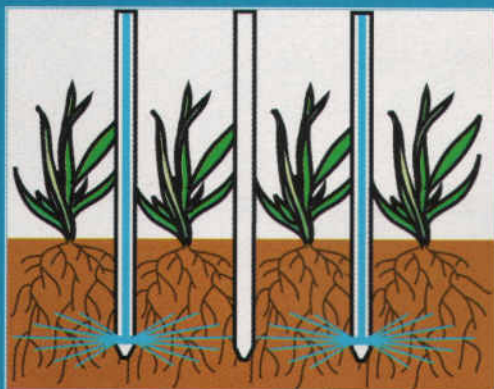
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speakers

tant to select the proper herbicide and to apply it at the correct rate and proper time. This talk will describe the methods of overseeding Bermudagrass with Ryegrass and the methods used to transition back to Bermudagrass that are used on the athletic fields at Texas A&M.

3:10 - 4:00PM
Managing Bermudagrass and Ryegrass in the Transition Zone

John Sorochnan, Ph.D., University of Tennessee
Bob Campbell, CSFM, University of Tennessee

This talk will focus on the benefits and detriments of overseeding perennial Ryegrass into Bermudagrass athletic fields. Seeding date and rates will be discussed. Also, spring Ryegrass transition and reasons for poor Bermudagrass winter survival and spring green-up will also be discussed.

Eco-Balanced Athletic Fields
Moderator: Jay Warnick

1:30 - 2:20PM
Implementing IPM Strategies for Athletic Fields

Roch Gaussoin, Ph.D., University of Nebraska
Integrated pest management (IPM) involves a set of decisions designed to minimize chemical inputs without compromising turf quality. First and foremost in the decision process is agronomically sound cultural practices. This presentation will focus on these practices with emphasis on long-term health and function of athletic turf.

2:20 - 3:10PM
Water Quality Issues for Athletic Fields
John Cisar, Ph.D., University of Florida, IFAS Research & Education Center

This presentation focuses on things that athletic field managers can do to improve agrichemical efficiency and reduce potential off-site losses of natural resources. Water quality issues and protection will be discussed. Practical management strategies that help protect water quality such as incorporating efficient irrigation, fertilizer application methods and sources of fertilizer will be offered to the end-user.

3:10 - 4:00PM
Athletic Field Management: The Why's and How's of a Return Program
Chip Osborne, The Living Lawn Project

This presentation will explore the reasons why we should consider a natural turf management program and the basic steps to begin to implement one.

Research You Can Use
Moderator: Dave Minner, Ph.D.

1:30 - 2:20PM
Warm Season Athletic Field Research Update
Grady Miller, Ph.D., University of Florida

Will update the group on warm-season research projects being conducted in Florida. Highlighted studies will include research in water distribution, weed control, turf colorants, soil amendments, and fertility. A highlight of the presentation will be the new multi-million dollar turfgrass research center that is under construction near Gainesville, FL.

2:20 - 3:10PM
Cool Season Athletic Field Research Update
Andy McNitt, Ph.D., Pennsylvania State University;
Dave Minner, Ph.D., Iowa State University

These researchers will bring you up to speed on the latest research related to traffic tolerance, high seeding rates, and Ryegrass/Bluegrass competition.

3:10 - 4:00PM
Graduate Student Scholarship Winners
Research Project Presentation

FRIDAY, JANUARY 20

CONCURRENT SESSIONS
8:00 - 10:00AM

#1 Schools K-12
Moderator: Tom Curran

8:00 - 8:30AM
Motivation and Innovation,
Trying to Do Things on a Limited Budget
Floyd Perry, Grounds Maintenance Services

Attempt to create a positive weekly outlook by making new ways of saving time, effort, and energy. Begin with your shop, staff appearance and vehicles to attempt to arrange a positive outlook for your small or large staff.

8:30 - 9:00AM
Dealing with Wear on Sports Fields
Grady Miller, Ph.D., University of Florida

Provides practical information for identifying wear problems and addresses potential solutions. It will attempt to answer the question, "How much wear can my field take?"

9:00 - 9:30AM
Managing Wear and Tear on K-12 Fields
John Mascaro, Turf-Tec International

This talk will take you on a visual journey of real world situations showing wear and tear on athletic fields. It will also address how to manage these stresses and grow the best turf for your area. Understanding wear and tear on turf will lead to better turf and safer fields.

9:30 - 10:00AM
Practical Fertilization for Sand-based Athletic Fields
John Cisar, Ph.D., University of Florida, IFAS Research & Education Center

Fertilizer timing, rates, sources, and application methods in relation to turfgrass needs will be discussed with an objective of getting the most out of your fertilizer budget and the best management strategies for athletic fields. Practical information on the nutritional needs of grass and the fertility of the sand-based soils that many fields are maintained on will be highlighted.

#2 Parks & Recreation
Moderator: Bud Nolder

8:00 - 8:30AM
Practical Maintenance of Athletic Fields
Preston Courtney, Disney's Wide World of Sports
Connie Ferriola, Disney's Wide World of Sports

Will discuss strategies and techniques used to prepare and maintain high quality fields with a busy event schedule.

8:30 - 9:00AM
Our Biggest Problem, Time and Manpower
Floyd Perry, Grounds Maintenance Services

Evaluate your personal needs and job requirements so that all facilities are equipped with proper equipment and adequately staffed to handle the job at hand as well as special projects. You're only as strong as the people involved. Work smarter, not harder.

9:00 - 9:30AM

How to Keep your Participants Happy with 7 Games a Day

Bill Berry, Cherry Park, SC

Why would anyone schedule 7 games a day, 7 days a week, for 36-40 weeks a year? This talk will provide information on maintaining highly used fields.

9:30 - 10:00AM

Tools for Conducting a Water Audit and Diagnosing Soil Conditions

Richard Sanger, CPRP, CLIA, Sarasota Parks & Recreation Department

Ron Kelly, Sarasota Parks & Recreation Department

Tools for conducting a water audit and diagnosing soil conditions. Lecture, PowerPoint presentation, and demonstration the reason for an irrigation water audit to determine if water is being applied uniformly to the turf, and how soil conditions impact watering practices. In-class demonstration of soil instruments for measuring soil parameter impacting irrigation is included.

#3 Professional Fields

Moderator: Darian Daily

8:00 - 8:40AM

Managing Non-Sporting Events

Abby McNeal, CSFM, Denver Broncos

Brief overview of how we at Invesco Field manage non-sporting related events.

8:40 - 9:20AM

Dealing with the Aftermath of the Super Bowl

Nick Fedewa, SMG/Jacksonville Jaguars

This talk will focus on the process of preparing the field at Alltel Stadium for the pre-season after the Super Bowl.

9:20 - 10:00AM

Managing Turf Covers

Ross Kurcab, CSFM, Denver Broncos

This talk will give a general overview of the various turf covers typically used at sports turf facilities. Mr. Kurcab will discuss his experiences with rain and snow covers. Topic points will also include deployment methods, snow clearing methods, cleaning and maintenance, and the costs associated with owning and using turf covers. A short video will be shown taking the audience through a snow game weekend in the NFL, showing all aspects of using these types of covers.

#4 College/University

Moderator: Mike Andresen, CSFM

8:00 - 8:40AM

Contracting and Renovation of Tired Fields

Jason DePaepe, CSFM, University of Colorado

Renovating athletic fields with the help of outside contractors. How to work together towards the same goal.

8:40 - 9:20AM

Developing the Relationship between Educators and Sport Field Managers

Pam Sherratt, Ohio State University

Developing methods of reaching an audience and improving relations between educators and the turf manager. How to make it a win-win relationship.

9:20 - 10:00AM

Baseball Infield Mixes - Panel Discussion

Craig Potts, Texas A&M University

Mike Schiller, CSFM, Sodexo-Lake Forest Academy

Paul Terrell, University of Georgia

Luke Yoder, San Diego Padres

Some baseball infield skin materials are used nationwide while others are developed from local materials. Strategies to manage the infield skin will depend on geographic location, rainout expectations, level of play, budget, and several other factors that will be discussed by this panel to help you select and develop a strategy to manage your infield skin. In this panel discussion, you will hear a variety of infield mix strategies, different soil properties, and how they effect turf management.

Sports Field Student Challenge Exam

Student Exam Moderator: Steven Ries

Student Exam Coordinator: Steve Cockerham

8:00 - 10:00AM

PM WORKSHOPS

3:00 - 5:15PM

Workshop #1

Proven Techniques to Enhance your Influence and Effectiveness

Mark Esoda, CGCS, Atlanta Country Club

This workshop will portray the challenges golf course superintendents face and work through to solutions. The challenges and solutions are similar to those in the sports turf area. Challenges include public perception, visibility and communication skills.

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wrote **Dann Daly**, Park Maintenance Supervisor,
Parks & Recr. Dept., North Smithfield, RI

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speakers

Workshop #2

Applied Math for Sports Field Managers

Brad Jakubowski, University of Nebraska College of Technical Agriculture

This workshop covers the practical aspects of turfgrass mathematics and will help certification candidates prepare for the CSFM exam. Topics covered will include topdressing, irrigation, seeding rates, fertilizers and pesticide applications. Attendees are invited to bring examples from their own experiences to be used as workshop examples.

Workshop #3

Experiences with Rubber Infill Systems and Task Force on Synthetic/Natural Turfgrass Field - Panel Discussion

Debbie Kneeshaw, Delta Sports Complex, City of Portland; Aaron Boggs, University of Louisville; Abby McNeal, CSFM, Denver Broncos Chair, Synthetic/Natural Turfgrass Task Force

The panel will discuss their experiences with rubber infill fields. Ms. Kneeshaw will share her experience at Delta Park concerning long term wear of the oldest FieldTurf synthetic rubber infill field in the United States. There will also be an overview of white sheet synthetic natural grass.

Workshop #4

Student Workshop

A workshop designed to address the needs of the sports turf management student.

To Understand the Present, Investigate the Past
Kent Kurtz, Ph.D., Cal Poly Pomona

John Souter, Consultant

Learn about the people, places and things that helped shape the STMA and IOG in the United States and Europe.

Making the Transition from Student to Professional Sports Field Manager

Karsten Blackwelder, Roger Dean Stadium

Just 3 years ago, Karsten was a university student much like you. Now he is the Sports Turf Manager for a professional baseball facility. Mr. Blackwelder will share his transition story about communication, proper planning, dealing with your new crew, and what it means to go the extra mile. He will also discuss his experience with hurricanes, drought and transition of grasses.

You're hired! Now What Do I Need to Know?

Steve Wightman, Qualcomm Stadium

A boss's perspective of what students and novices entering the sports field industry should know. Agronomics is only one of the many tools necessary for a successful manager.

Workshop #5

Managing Microbials in your Athletic Field: Can they Work for You?

Elizabeth Guertal, Ph.D., Auburn University

Biologicals, bio-products or microbial amendments: they have a lot of different names but the goal is the same: help your turf grow and withstand athletic wear and tear. This presentation will discuss the various types of microbial additives on the turf market, how they might differ, and how they fit into your management program. Recent research in the area, product

label interpretation, and how the products differ from fertilizers will also be discussed.

Workshop #6

When the Media Comes a Calling

Erica Santella, TruGreen Companies

Is your first inclination to run and hide? Learn how to respond (and not react!) to this powerful reality in a professional manner.

Workshop #7

Preparing for the CSFM Exam

Mary Owen, UMASS Extension; George Trivett, CSFM, Hudson Middle School; Mike Schiller, CSFM, Sodexho-Lake Forest Academy

This workshop presents an overview of the CSFM exam and provides hints to prepare for taking it. Without giving any specific questions, the presentation team will point out areas the exam takers should be familiar with. It will also show how the practical, everyday part of sports turf management can help you prepare for the exam. If you are thinking about certification, but are nervous about the test, this session is for you.

Workshop #8

Developing a Comprehensive Master Plan to Improve Your Facilities and Reduce Field Overuse **François Hebert, Landscape Architect, DSSS (Design and Solutions for Sports Surfaces)**

This workshop will explore the process of developing a comprehensive plan to deal with many of the issues relating to the management of multiple fields that are often overused due to excessive demand. Administrators, coaches, sports field managers and city planners will want to attend this practical workshop that explores the many facets of long term and integrated planning of the construction of new fields, both natural and synthetic, the maintenance and renovation of existing fields, as well as strategies aimed at the necessary curbing of destructive overuse. All this must be attained by taking into account the needs and constraints of users, planners and sportsfield managers.

Workshop #9

Building Athletic Fields- Construction, Renovation, Root Zones, and Irrigation that Fits Your Budget **Mark Heinlein, The Motz Group; Chuck Darrah, Ph.D., CLC LABS; Boyd Montgomery, CSFM, The Toro Company**

This talk will cover high dollar and low dollar practices for field renovation. Economic rootzone mixes will be covered, specifically sand and soil combination and modified rootzones. Also, when cost cutting should and should not be done.

SATURDAY, JANUARY 21

CONCURRENT INTERACTIVE WORKSHOPS 8:00AM - 12:00PM

Irrigation

Irrigation Systems for Sports Fields - Common Mistakes, Irrigation Audit, and Hydraulic Misconceptions

Brian Vinchesi, Irrigation Consulting, Inc.

This workshop will outline common errors in sports field design and installation. A hands-on irrigation system audit will be performed on one of Disney's Wide World of Sports baseball fields. Additionally, piping hydraulics will be demonstrated and discussed using an on site hydraulics training area in place at Disney World. Participants will have the ability to discuss their problems and experiences with sports turf irrigation systems.

Outdoor Demonstrations

1) Equipment Calibration

Jump Into The Sea



- Excellent Salt Tolerance
- Darker Green Color Than Bermudagrass
- Tolerates Gray Water, Effluent and Many Medium-to-Poor-Quality Water Sources
- Low Fertilization Requirements
- Handles Wide Range of Soil pH Levels: 4.0-9.8
- High Tolerance to Salt Spray, Water Logging and Periodic Inundations
- Minimal Pesticide Requirements
- Good Rooting in Sandy, Clay or Muck-Type Soils
- Can Be Overseeded with Bentgrass-Ryegrass- Alkaligrass Blends
- Root Growth & Functionality Still Maintained in 40-55°F Soil Temperature Range
- Excellent Low Light Intensity Tolerance

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**Roch Gaussoin, Ph.D.,
University of Nebraska**

GPA, PSI, WDG, XR, flat fan, 8002, Ft2, Al. Confused?
You won't be after this hands-on workshop.

**2) Innovative and Creative Ideas to Save Time,
Money and Effort**

**Floyd Perry,
Grounds Maintenance Services**

When ideas arise, don't take on a negative "it won't work" attitude. A rough idea can become a strong one with a little hard work. Cut down on wasted time and effort by using your mind instead of your muscle.

**3) Infield Skin Mounds
& Plate Maintenance**

**Preston Courtney, Disney's Wide
World of Sports**

Get an expert demonstration of how the sports management crew at Disney takes care of the skin, mound and plate areas at their baseball complex.

Fertilizers

**Fertilizers for Sports Fields
Bradley Jakubowski, University of
Nebraska College of Technical
Agriculture**

**Fertilizers and Plant Interactions
Tom Samples, Ph.D.,
University of Tennessee**

Sports turf requires balanced nutrition. However, solubility, the rate of nutrient release, the density, size, and uniformity of particles and the price often vary among today's fertilizers. Information presented during this hands-on workshop is intended to help managers maintain healthy turf-grasses by selecting and applying fertilizers that will deliver the desired results within budget.

Online Resources

**Using Turf Online Resources -
TGIF and More**

**Pete Cookingham,
Michigan State University**

Whether you think you have a good handle on how to use the Web in your job, or if you're uncertain of how to use it effectively - come learn about online resources for turf, search tips and tricks, saving time getting around what sometimes seems to be nothing but sidetracks, evaluating sources, and contribute yourself to a lively session about how to maximize your professional gain from the online world.

**ROUND-TABLE DISCUSSIONS
1:30 - 3:30PM**

**Compost Topdressing
Mike Andresen, CSFM,
Iowa State University**

**Paint Issues on Athletic Fields
Grady Miller, Ph.D., University of
Florida**

**Non-Grass Sport Surfaces
Tra DuBois, World Class Athletic
Services, Inc.**

**Effectively Managing a Diverse Workforce
Chris Calcaterra, CSFM, Peoria Sports Complex**

**Problems and Solutions Forum
Dave Minner, Ph.D., Iowa State University**

**Planning for Your Retirement
Lisa Soroachan, University of Tennessee**

**Resume and Self Promotion Portfolio
Bradley Jakubowski, University of Nebraska College
of Technical Agriculture**



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Taking On Winter: The Basics of Irrigation System Blowouts

BY LUKE FRANK

Anybody in the turf industry north of 45 degrees latitude should have a firm grasp of proper irrigation system winterization. Otherwise, both acute and chronic forces can cause considerable system damage at spring recharge and nightmarish summer maintenance.

The power of water turned to ice is chilling: it can split mains and laterals, fracture fittings and heave sprinkler heads and valve boxes to new heights. There are three areas of opportunity for executing proper irrigation evacuation. The first two, sound irrigation design and installation, may be forgone conclusions. The third opportunity, actually purging your system, is a logical, methodical procedure of isolating and blowing out your system infrastructure.

Start at the beginning

Those who contend with winter soil frost lines of 4 inches or more have a strong appreciation of nature and its power. Pipes, sprinklers, wires, valves, boxes, and other equipment are continually heaved, and hoed, all winter. Install something poorly in the fall and you'll have to rework it in the spring.

In many cases, there is little we can do to combat our weather conditions. However, there is much that can be done to make a system "give" with weather conditions.

Most systems are designed and installed somewhere within the top 12 to 24 inches of soil. Such systems are in the direct line of fire for winter abuse. Techniques such as pipe pitching, intended to direct water flow to the manual drains when opened in the fall for winter purging, are clever but shortsighted. If pipe truly is pitched at installation, it rarely remains that way due to frost heaving.

Consequently, each autumn, less and less water will be evacuated, so more of it will remain in the piping system. This remaining water then freezes and expands to continually weaken pipe and fittings through fatigue over time. Each year, system damage increases, whether visible or not, and spring recharge costs increase.

If pipes don't remain pitched from frost heaving, then water never really has the chance to get to any drains. Moreover, once winter frost completely surrounds the drain, it becomes ineffective, as it can no longer release the water from the system. For these same reasons, systems that rely exclusively on manual and automatic drains for winterization are at risk.

Essential design features

Basic fundamentals tell us that if a device or technique is marginally effective, additional system service will be incurred. Adding pieces to the system that may fail or not work as specified, or will damage other components, should be avoided.

An irrigation consultant/designer should be aware of winterization techniques required for each specific project before finalizing the layout. For example, mainline

systems on all projects should be configured so that compressed air can be introduced into the system at key locations and provide for the easy removal of the majority of water from the entire mainline system promptly. At the water source(s), just downstream of the backflow preventer, an outlet should be provided as the point of connection for the compressor hose.

At the mainlines' ends, or at isolation points in looped system design, quick couplers should be specified to enable water release. Naturally, these also would be useful for manual watering during the season,

but placed in key locations so that during winterization, high volumes of water can be easily released from the system. All quick couplers should be accessible and protected by a valve box for easy location in the fall.

Irrigation consultants/designers must have practical knowledge and thorough experience in winterization procedures to truly design a reliable system. Examples are pumping systems designed to require minimal winterization; or the research of and experience with sprinklers, valves, and other components that perform better in colder climates and during winterization. Poor design will result in hard to winterize and maintain systems.

In northern climates choked with heavy frost, building in system flexibility is very important. All systems should be installed

with an appropriate flexible riser (preferably swing joints) at each sprinkler. Valves should be installed so that valve boxes don't rest on any incoming pipe or wire.

Mainlines should be installed outside of the electrical valve boxes to allow for wintertime movement, and adequately sized compressor connections should be installed near the water source and outlets, preferably quick couplers at the end of mainlines.

While these installation fundamentals are important, an accurate as-built plan will be your winterization reference tool every fall. As-builts should provide information for your crew about where to begin and end the process and warn of peculiar issues and how to deal with them. Be diligent in regularly updating any changes in product or location as the seasons pass.

Getting down to business

On larger projects with multiple taps and looped mainlines, a game plan should be designed, documented, and followed. The overall goal is to replace the piping system's full water volume with equal or greater air volume by methodically pushing the water out.

Looped mains will have to be isolated to create single, independent flow direction. Multiple tap systems also will have to be isolated, one tap from another, to form independent flow directions.

Proper compressed air volumes and pressure are keys to successful winterization procedures. Generally, compressed air pressures of 70-80 psi combined with air vol-

