#### **RAIN BIRD CORPORATION 326**

#### Tucson AZ

Providing products and services that promote the intelligent use of water. www.rainbird.com

# REDEXIM-CHARTERHOUSE 827

#### High Ridge MO

Manufacturer of specialized turf and grounds care equipment, specifically for aeration, seeding, topdressing and environmental maintenance.

www.redexim.com

# REELCRAFT INDUSTRIES, INC. 1034

#### Columbia City IN

Manufactures and markets a wide variety of water hose reets including the DGM underground retractable hose reel system, www.reelcraft.com

#### **ROLA-TRAC NORTH AMERICA 1409**

#### Van Buren AR

Provides portable flooring and roadway system. www.rola-trac.net

#### ROTODAIRON EMREX, INC. 1312

#### Pittston Township PA

Equipment has saved up to 35% in labor costs for sports field renovators.

www.mge-dairon.com

#### RTF TURF **PRODUCERS ASSOCIATION 1022**

#### Mead NE

Rhizomatous Tall Fescue (RTF) is a new type of tall fescue that produces rhizomes. www.aboutrtf.com

#### SEED RESEARCH OF OREGON 1127

#### Corvallis OR

SRO has the quality seeds you need and the expert service you expect.

www.sroseed.com

#### SCOTTS COMPANY 1221

#### Marysville OH

Offering an exclusive line of turfgrass seed products, including Double Eagle seed blends and mixtures.

www.scotts.com

#### SIGNATURE CONTROL SYSTEMS, INC. 1222

Manufacturer of electronic control equipment, management software and irrigation equipment.

www.signaturecontrolsystems.com

#### SIGNATURE SYSTEMS, LLC 312 **New York NY**

Signature Systems is your one stop shop for all types of portable flooring systems. www.signaturefencing.com

#### SISIS, INC. 1115

#### Sandy Springs SC

Producer of a wide range of versatile machinery for turf maintenance. www.sisis.com

#### SOUTHERN ATHLETIC FIELDS INC. 1209

#### Columbia TN

Supplier of infield mixes, mound clays, clay bricks, calcined clays and warning track materials as well as innovative field accessories. www.mulemix.com

#### SOUTHERN GREEN, INC. 735

#### Zachary LA

Makers of the Soil Reliever deep tine aerification system. www.soilreliever.com

#### **SPORTEXE 533**

#### Fonthill ON

Manufacturer of 108 different artificial sports surfaces; supplies over 13,000 sports equipment products.

www.sportexe.com

# **SPORTS TURF COMPRNY, INC. 630**

#### Whitesburg GA

Sports field construction company specializing in general contracting, construction management of design/build projects, construction/renovation of athletic fields. www.northgeorgiaturf.com

#### SPORTS TURF MANAGERS **ASSOCIATION**

#### Lawrence, KS

An Association that shares our knowledge and ideas about sports turf to companies nationwide, to create continuous turf improvement. "Experts on the Field, Partners in the Game."

www.sportsturfmanager.com

#### SPORTSFIELD SPECIALTIES 1322 Delhi NY

Sportsfield Specialties Inc. is a manufacturer of sports construction products for athletic fields and running tracks.

www.sportsfieldspecialties.com/

#### STABILIZER SOLUTIONS, INC. 921

#### 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 433**

#### Graniteville SC

Products and services include subsurface aeration and hyrdronic temperature control. www.subairsystems.com

#### SUNTEC PAINT 313

#### Gainesville FL

Manufacturers of Game Day Athletic Field Marking Paints.

www.suntecpaint.com

# **SUPRTURF PRODUCTS USA 639**

#### 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. 1131

#### Cannon Falls MN

Manufacturer and marketer of natural organic and organic based fertilizers, thatch reducing and root stimulating products, www.sustane.com

#### SYNGENTA 1228

#### Greensboro NC

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

www.syngentaprofessionalproducts.com

# TERRAPLUS USA RENTALS, LLC 1320

#### Kilgore TX

The nation's premier turf protection system. www.terraplasusa.com

#### **TOMARK SPORTS 332**

#### Corona CA

Equipment for all sports and facility maintenance, from infield groomers to scoreboards. www.tomark.com

#### THE TORO COMPANY 409

#### **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

#### TRU-TURF EQUIPMENT 934

#### **Ernest QLD AU**

Manufactures the only rollers in the world to have the patented triple offset smoothing roller configuration.

www.truturf.com

# TURF DIAGNOSTICS & DESIGN 412

#### Olathe KS

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

#### **TURFON€ 308**

#### Tangent OR

TurfOne is a developer and provider of seed products and services. www.turfone.com

# TURF-SEED, INC. 1020

#### **Hubbard OR**

Providing top-rated turfgrass varieties that perform well under closely mown conditions and extreme wear.

www.turf-seed.com

# TURF SPECIALTIES, INC. 823

#### Lakeland FL

Manufacturers fine turf, 3-pt. Hitch verticut equipment for athletic fields.

#### TURFCO MFG. INC./NATIONAL MOWER COMPANY 609

#### Minneapolis MN

Provides renovation equipment for turf maintenance while supplying aerators, dethatchers, dog fence installers, edgers, and overseeders. www.turfco.com

#### **TURFGRASS AMERICA 709**

#### Granbury TX

Dedicated to providing the highest quality sod and sod-related services.

www.turfgrassamerica.com

# MANUFACTURING LTD. 421

#### Rosedale BC

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

#### VALLEYCREST COMPANIES 529

#### Calabasas CA

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

#### **VERDICON 727**

#### Greeley CO

Providing the chemicals, fertilizers and seeds to the professional turf industry.

www.verdicon.com

#### **WATERWICK 437**

#### South Hampton NY

WaterWick gravel injection system dramatically improves drainage without disturbing the soil surface.

www.waterwick.com

# **WEST COAST TURF 920**

#### Palm Desert CA

Official turfgrass supplier to the Arizona Diamondbacks, Bank One Ballpark, home of Super Bowl Sod.

www.westcoastturf.com

#### **WIEDENMANN NORTH AMERICA, LLC 627**

#### Savannah GA

Manufacturers of turf maintenance and aerification equipment. The Terra Spike, Terra Combi, and Terra Tip lines are multi-purpose machines with available cost-saving options. www.terraspike.com

#### **WORLD CLASS ATHLETIC SURFACES 1027**

# Leland MS

A manufacturer and supplier of athletic field paints, dyes, graphic stencils stripers, field covers, privacy curtains and other field accessories.

www.wrldclass.com



#### Featured Speaker >> DR. ANDREW MCNITT

Assistant Professor of Soil Science/Turfgrass, Dr. McNitt has been

with Pennsylvania State University for 20 years. He presently teaches two courses in the 4 year Turfgrass Science curriculum. He conducts research relating to athletic field and golf green construction. Dr. McNitt has been honored nationally by the Golf Course Superintendents Association of America, The Musser International Turfgrass Foundation, the Crop Science Society of America, and the American Society of Agronomy. He has consulted on numerous athletic field and golf course construction and renovation projects at all levels of play from high school through professional sports complexes. Principal areas of research are Testing Athletic Field Design and Sports Turf Playing Surface Characterization and the USGA Greens Construction Method. He will be a part of the panel of experts that will focus on Natural and Synthetic Turf.

#### Featured Speaker >> DR. JOHN (TREY) N. ROGERS, III

Winner of the 1993 Sports Turf Manager Association Research Excellence Award, Dr. Rodgers has done numerous successful projects. He is a Professor of Turfgrass Management in the Department of Crop and Soil Sciences at Michigan State University. As the Coordinator of the 2-year Golf Turfgrass Management program at MSU, Dr. Rogers' turfgrass research interests include athletic field management and reduced light conditions; specifically wear tolerance, soil modification and field hardness and traction. He served as the lead scientist for the indoor turf project at the Pontiac Silverdome for the 1994 World Cup Soccer matches and the project leader of the Spartan Stadium turfgrass conversion in 2001-02. He has consulted on athletic turf and turfgrass matters throughout the U.S., Greece, Japan, Argentina, Brazil, England and Spain. Dr. Rogers will be discussing circumstances and critical thinking that went into determining the field construction issues for the 2004 Olympics in Athens, Greece.

#### Featured Speaker >> GRANT TRENBEATH

Head Groundskeeper of BankOne Ballpark - Home of the Arizona Diamondbacks, Grant Trenbeath has become a model of consistency. Mr. Trenbeath and his staff replaced 3,300 square feet of sod in 2003, just 300 square feet more than the year before. From its signature swimming pool to its retractable roof, Bank One Ballpark has become one of the game's most recognizable landmarks in just a few seasons. Since 1998, and in the comfort of air-conditioning, nearly 15 million baseball fans have enjoyed the opportunity to watch the Arizona Diamondbacks without worrying about Phoenix's summer heat or monsoon storms. While the fans are comfortable Mr. Trenbeath must battle the intricacies of maintaining grass at Major League Baseball standards in the changing environment of light and temperature, not to mention motor cross, concerts, and other activities. Mr. Trenbeath will discuss the techniques for managing this unique baseball facility and how he integrates other activities in this multi-use facility.

# THURSDAY, JANUARY 20

General Session 8:00-11:30am

8:00AM - 8:15AM WELCOME TO GET IN THE GAME- 2005 Bob Campbell, CSFM, STMA President, University of Tennessee

8:15AM - 9:00AM THE NEW SYNTHETIC TURF- RUBBER INFILL SYSTEMS Mike McGraw, Prestige Sports

What you will hear>> This presentation will explore the Rubber Infill Systems of the "New Synthetic" Turf.

#### 9:00AM - 9:45AM

#### **OBSERVATIONS IN SYNTHETIC AND NATURAL TURF**

Dr. Andrew McNitt, The Pennsylvania State University

What you will hear>> The rate of installation of synthetic turf fields in the USA is expected to increase by 20% annually over the next 4 years. Driving this current expansion are the new configurations of synthetic turf surfaces termed 'infill' systems. The session will discuss the various views of Synthetic and Natural Turf.

#### 10:00AM - 10:45AM

#### NATURAL VS. SYNTHETIC FIELDS: COMPARING THE COSTS

Dr. A.J. Powell, University of Kentucky

What you will hear>> In a specific field situation, which is most expensive to construct, a natural grass field or one of the new Synthetic Infills? The fact is that natural grass, sand based fields may be most expensive to construct and will normally be most expensive to maintain. But how does this initial cost relate to the natural grass (sand based or natural soil) field you presently have? What are you presently spending for maintenance, renovation, testing for safety and performance, repair, etc? Do we even know what maintenance costs are normally incurred with the Synthetic Infills? There is no simple solution to cost comparisons and one must look at initial need, traffic demand for the field and how much natural grass wear you can afford?

#### 10:45AM - 11:30AM

# NATURAL AND SYNTHETIC TURF - QUESTIONS AND ANSWERS

What you will hear>>Panelist Mike McGraw, Dr. Andy McNitt, Dr. A.J. Powell, Steve Wightman, and Vince Patterozzi will debate and discuss the advantages and disadvantages of Natural and Synthetic Turf.

#### 11:30AM - 12:15PM

#### Keynote Speaker >> RON SANTO

What you will hear>>RON SANTO . . . a living legend. As a third baseman he won 5 Rawlings Gold Glove awards during his 15-year major league career. He was a 9-time National League All Star selection, batting .277 during his career with 342 home runs and 1,331 RBI. Santo hit 337 homers with the Cubs, the fourth highest total in club history. He also ranks among the Cubs all time top 10 in games played, at bats, runs scored, hits, total bases, doubles, RBI and extra-base hits. He was a member of the inaugural Cubs Walk of Fame Class of 1992 and was selected to the club's all-century team in 1999. On September 28, 2003, his uniform number 10 was retired by the Cubs. Santo is a member of the Board of Directors of the Juvenile Diabetes Foundation and his 25th annual Ron Santo Walk for the Cure raised over \$4.2 million for diabetes research in 2003. Ron is currently in his 15th season as a WGN Radio color commentator for the Chicago Cubs.

# Concurrent Session 12:30PM - 3:45PM

There will be 4 tracks with 3 presentations in each, lasting 45 minutes each.

#### Track #1 - Cool Season

#### SELECTING COOL SERSON SPECIES AND VARIETIES FOR SPORTS

#### Dr. Leah Brilman, Seed Research of Oregon

What you will hear>> This presentation will help you to select the best cool season species and or variety based upon level of use, season of use and maintenance budget. Also learn new strategies in repairing existing fields.

An impressive ballpark needs an impressive field, and I got that with Bull's-Eye. Here we are in April, and the grass is growing like it's July. I'm very happy with what I have seen so far.

PETCO PARK Opening Day, April 8, 2004



# Let's Talk Turf.

- DEEP BLUE GREEN COLOR
- RESISTS SCALPING
- NO SEED HEADS
- BETTER IN SHADE
- EXCELLENT WEAR TOLERANCE

Just ask the pros!



# -Luke Yoder

Director of Field & Landscape Maintenance PETCO PARK, home of the San Diego Padres San Diego, CA





#### **DEVELOPING A BUDGET STRATEGY** AND IMPLEMENTING A FIELD MANAGEMENT PLAN

John Netwal, CGCS, North Scott Schools, IA

What you will hear>> In this session you will explore how to develop a budget strategy and implement a field management plan for cool season fields.

#### **POR RNNUR CONTROL STRRTEGIES**

Jeff Borger, The Pennsylvania State University

What you will hear>> This session will explore different tactics and strategies of how to control Poa annua in sports fields.

#### Track #2 - Warm Season

#### SEEDED BERMUDAGRASS FOR ATHLETIC FIELDS

Dr. Charlie Rodgers, Seeds West

What you will hear>>Seasonal preparation of warm season turf grass in the transition zone with an emphasis placed on sand based profiles and the maturation of various root zones over a ten year period. Fields to be analyzed will be a soccer field, a baseball INF, and a football field.

#### **VEGETATIVE BERMUDA GRASS FOR ATHLETIC FIELDS**

Dr. Mike Richardson, University of Arkansas

#### SERSHORE PASPALUM

Chuck Pula, City of Winter Springs, Florida

What you will hear>> New varieties offer alternatives to Bermudagrass for sports fields. Program presents pros and cons of this turf. Also will review ideal and limited budget programs for parks and rec personnel.

#### Track #3 - Environment

#### PESTICIDE ISSUES AND SOLUTIONS AT NORTH ROCKLAND CENTRAL SCHOOL DISTRICT

Kevin Trotta, North Rockland Central School District

What you will hear>> Healthy fields are generally safer fields and yet some are questioning the safety of management practices, especially with children, is the use of pesticides. New York has some of the toughest regulations in the nation. A NY turf manager addresses the controversy.

#### CHEMICAL FREE PLAYING FIELDS

Paul Sachs, North County Organics Ecological Turf Consultants What you will hear>> Managing playing fields without chemicals is not difficult if they aren't required to look like an NFL arena. Controlling the majority of weeds, insect, and diseases is easier than controlling all of them. Tolerance thresholds are also discussed as they, more often than in the pest, determine the need for pesticides. This talk examines practices and some of the botanical and biological pest control products available to

#### PHOSPHORUS USE ON ATHLETIC FIELDS AND **RELATED WATER QUALITY ISSUES**

Dr. John Stier, University of Wisconsin

#### Track #4 - Research You Can Use

#### RESEARCH PROGRAM UPDATE

Dr. Dave Kopec, University of Arizona

What you will hear>> Herbicides for spring transition from rye grass to Bermuda. Salt grass update.

# GRADUATE STUDENT SCHOLARSHIP WINNER RESEARCH PROJECT

What you will hear>> Students will discuss their winning research pro-

# FRIDAY, JANUARY 21

# Concurrent Session 8:00AM - 10:00AM

There will be 3 presentations in each of 4 tracks, lasting 40 minutes each.

Track #1 - Schools K-12

IMPLEMENTING AND OVERSEEING MAINTENANCE CONTRACTS OPTIONS

Bill Sturgill, City of Scottsdale

#### PREVENTATIVE EQUIPMENT MAINTENANCE

Phil Paquin, SIP Universal Gear

What you will hear>> Principles of preventative equipment maintenance.

#### IRRIGATION PRINCIPLES

Richard Templeton, Water Resource Specialist

What you will hear>> The Discussion of Water management practices that everyone can understand. Sometimes in this day and age with computer systems we tend to forget the basics of water management practices. He will discuss sprinklers, valves and controllers and teach you to maintain them properly.

#### Track #2 - Parks & Rec

#### PRACTICAL APPLICATION AND CALIBRATING TECHNIQUES

Tom Samples, University of Tennessee;

Jeff Borger, The Pennsylvania State University

What you will hear>> This session will discuss how to calibrate liquid sprayer and granular spreaders.

#### THE HANDS-ON APPROACH TO TURF NUTRITION

Joe Traficano, CGCS, West Coast Turf

What you will hear>> This session will give you the basic approach to common sense use of fertilizer. Lawns, parks, high traffic areas, and athletic fields will be addressed along with basic fertilizer applications and calculations.

#### PARK MAINTENANCE ANNUAL PLAN

Dr. Dave Kopec, Plant Science Specialist

#### Track #3 - Professional Fields

#### BIOSTIMULANTS AND MICROBIAL NETWORK IN NATIVE SOIL AND SAND-BASED SYSTEMS

Dr. David Zuberer, Texas A&M University

What you will hear>> This presentation will address the nature of microbial populations in managed sand-based sports turfs and native soils. He will discuss data from several sports fields for which he has monitored microbial populations for several years. Dr. Zuberer puts soil microbiology in a realistic perspective and illuminates the challenges of microbial preparations.

#### PREPARING AN OLYMPIC FIELD- ATHENS, GREECE

Dr. John Rogers, III, Michigan State University

What you will hear>> This session will develop the circumstances and critical thinking that went into determining the field construction issues for the 2004 Olympics in Athens, Greece.



Synthetic Turf Groomer with GreensSlicer® Spring Tine Rake.

Fast, Efficient Grooming of all filled synthetic sports fields!



# **FEATURES and BENEFITS**

- Synthetic Sports Turf Groomer works with all fill material currently used, in both wet and dry conditions.
- Patented brush design lifts turf fibers leaving them in a plush, upright position. Brushes move fill to low spots or depressions left after play.
- · Synthetic Super Duty Blue Brushes retain their original shape, resist wear, and will not rot.
- GreensSlicer Spring Tine Rake consists of 3 rows of 28 tines spaced 7/8 inch apart for thorough coverage.
- Each row of tines may be adjusted to the desired level of aggressiveness.
- The GreensSlicer combs through the fill material, relieving compaction and assuring a soft, level playing surface.



Synthetic Super Duty Blue Brushes
Resist wear and will not deteriorate from moisture.



GreensSlicer Spring Tine Rake 3 rows of 28 tines.





Call for additional information on our line of Synthetic Turf, Natural Turf, and Clay surface Groomers

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U.S. Patent No. 5833013. Other Patents Pending.

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#### MANAGING BANKONE BALLPARK

Grant Trenbeath, Arizona Diamondbacks What you will hear>> Head groundskeeper for Arizona Diamondbacks will discuss the

techniques for managing this unique baseball facility and how he integrates other activities in this multi-use facility.

#### Track #4 - College/University MANAGING COOL AND WARM SERSON GRASSES FOR COLLEGE SPORTS

Mike Andresen, CSFM, lowa State University; Jimmy Rodgers, CFSM, University of Virginia

What you will hear>> This workshop will discuss the growth and development of warm season and cool season turf grasses used in managing sports turf.

#### BIOSTIMULANTS AND MICROBIAL NETWORK IN NATIVE SOIL AND SAND-BASED SYSTEMS

Dr. David Zuberer, Texas A&M University

What you will hear>>This presentation will address the nature of microbial populations in managed sand-based sports turfs and native soils. He will discuss data from several sports fields for which we have monitored microbial populations for several years. Dr. Zuberer will attempt to put soil microbiology in a realistic perspective and will discuss the challenges of achieving success with microbial preparations.

#### THE FIRST ONE-PIECE MOVERBLE FIELD IN THE US

Tim Peterson, Arizona Cardinals Mike Lloyd, CMX Sports Engineers

What you will hear>>Come and see the tray construction structure- the movable system with motors-wheels rails- drainage system, root zone mix- grass and irrigation. The selection of root zone mix-grass and drainage system and the mock tray section built at the Cardinals Training Facility will be discussed.

#### Afternoon Workshops 3:00PM - 5:15PM

#### HOW TO BE MEDIA SAVVY

#### Arizona State University Athletic Department

What you will hear>>What makes a good story? This workshop will discuss how to interact with the media and position your stories for coverage.

#### MAKING PROFESSIONAL PRESENTATIONS

Jeff Fowler and Dan Brockett, Penn State Cooperative Extension What you will hear>>You are an expert on the field Sports Turf

Management. During this workshop we will be talking about the proper ways to make a presentation that will best help you share your knowledge. We will be looking at the basics of writing a script, putting together a talk, pictures, and many more aspects of making a high quality presentation.

#### EXPERIENCES WITH RUBBER INFILL SYSTEMS- PANEL DISCUSSION

Panelist Steve Wightman, Qualcomm Stadium, Vince Patterozzi, Baltimore Ravens and Jay Warnick, CSFM, BYU-Idaho

What you will hear>>Panel will discuss their experiences with Rubber Infill Systems.

#### BUILDING SPORTS FIELDS: AVOIDING DESIGN, CONSTRUCTION AND MAINTENANCE PROBLEMS

Jim Puhalla, Sportscape International Inc.

What you will hear>>The steps in designing and reconstructing most

commonly used sports fields. Get involved in the process--the steps include: #1 surveying an existing field; #2 reviewing over typical designs; and #3 exploring common design errors and solutions. You will take part in the designing and reconstructing of two actual fields including lay out, proper slope, types of equipment used, irrigation and subsurface drainage.

#### PREPARING AN AWARDS ENTRY

Tim Moore, CSFM, Maya Ballfields Svcs.,

and Steve LeGros, University of New Hampshire

What you will hear>> The workshop is designed to help those who might have hesitated previously about entering a "Field of the Year" contest. Moore and LeGros share what judges are looking for. Examples available of presentation packets and acceptable photos, and see how to better produce a great entry.

#### MANAGING HEALTHY SPORTS FIELDS: A GUIDE TO USING ORGANIC MATERIALS FOR LOW-MAINTENANCE AND CHEMICAL-FREE PLAYING FIELDS

Paul Sachs, North Country Organics Ecological Turf Consultants What you will hear>>Examines the ecosystem in which turf grows and some of the fundamental mechanisms that contribute to the health and welfare of turf plants. Understanding more about this system can help us make better-informed decisions about our inputs and cultural practices.

#### SAND ATHLETIC FIELD MANAGEMENT AND DEALING WITH THE ORGANIC LAYER

Dr. John Sorochan, University of Tennessee

#### PREPARING FOR THE CSFM EXAM

Mary Owen, UMASS Extension

George Trivett, CSFM, Granite Falls Middle School Mike Schiller, CSFM, Sodexho-Lake Forest Academy

What you will hear>>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.

# INTERNSHIP PROGRAMS:

#### MAKING THEM WORK FOR STUDENTS AND EMPLOYERS

Rachael Volkening, Milwaukee Brewers and

Greg Elliott, Lake County Captains

What you will hear>>The ideal partnership for intern programs for both the student and employer will be discussed.

#### UNDERSTANDING A SOIL TEST REPORT AND DEVELOPING A FERTILITY STRATEGY

Dr. Tony Koski, Colorado State University

What you will hear>>Learn how to read and understand a Soil Test Report and develop a Fertility Strategy.

# SATURDAY, JANUARY 22

# Concurrent Sessions 8:00AM - 12:30PM

4 tracks; will include one 15-minute break

Track #1 - Irrigation Audit and Field Analysis for Sports Fields Dr. Dave Kopec, University of Arizona





A300 All-Wheel Steer Loader with Snow V-Blade



V723 VersaHandler® TTC with Snow Bucket



MT52 Mini Track Loader with Snowblower



S300 Skid-Steer Loader with Snow Blade



**Toolcat 5600**: Four-wheel drive and great weight distribution for more traction and pushing power.

All-Wheel Steer Loader: Steerable axles allow you to direct tractive effort, minimizing sliding when pushing snow.

VersaHandler TTC: Move large volumes of snow and pile it higher than a one-yard loader. Mini Track Loader: Easy to operate, economically priced. Access small spaces with ease.

Skid-Steer Loaders: Two-speed option increases snow blade performance by rolling the snow rather than just pushing it.

Attachments: Angle Broom. Snow Blade. Snow V-Blade. Snowblower. Scraper. Spreader. Whisker Push Broom.

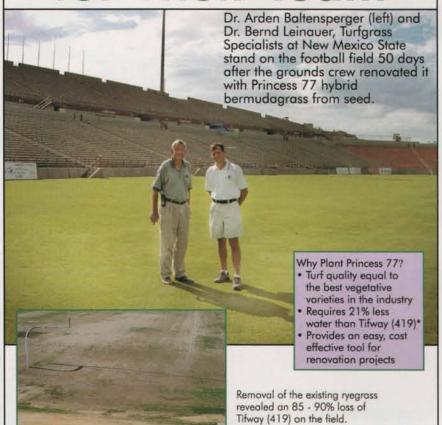


One Tough Animal

Our website: www.bobcat.com/0400

Toll-free for FREE Buyer's Guide: 1-866-823-7898 ext. 0400

# **Princess 77 Helps New Mexico State** Develop a Strong Field for Their Team



Following their first undefeated season at home, the New Mexico State University Aggies were looking to start the 2003 football season with their second consecutive home opening win. However, the players weren't the only people preparing for the upcoming season. The responsibility of having the field ready for play by the first snap of the ball fell on the shoulders of Bud Jones and the New Mexico State Grounds Crew.

Removal of the existing ryegrass revealed an 85 - 90% loss of Tifway (419) on the playing field. Renovation of the field using Princess 77 hybrid bermudagrass from seed solved the problem. 50 days later, the field was pronounced to be "at full density and in excellent condition." According the the grounds crew, Princess 77 held up "remarkably well" to the traffic of the first game.

# Available in seed and sod.



www.penningtonseed.com



\*Response of Bermudagrasses and Zoysiagrasses to Applied Water Using a Linear Gradient Irrigation Design, Sean Reynolds, 2000, Master's Thesis

Circle 155 on card or www.oners.ims.ca/2916-155



# speakers

Track #2 - Soils 1) water infiltration, soil structure, and the use of gypsum, 2) soil salinity management, 3) nutrient use and management

#### Dr. James Walworth, University of Arizona and Dr. Norm Hummel, Hummel & Co., Inc.

What you will hear>>This workshop will cover properties of soil that affect water infiltration, water-holding capacity, and plant-available water and how those soil properties can be managed to improve turfgrass performance. You will explore management of soil salinity and learn the importance of leaching salts, and the use of gypsum. Also learn about turfgrass nutrient requirements and nutrient and fertilizer management.

#### Track #3 - Fertilizers for Sports Fields / Fertilizers and Plant Interactions Brad Jakubowski, University of Nebraska,

# Dr. Tom Samples, University of Tennessee

What you will hear>> Sports turfs require balanced nutrition. Information presented during this hands-on workshop is intended to help managers maintain healthy turfgrasses by selecting and applying fertilizers that will deliver the desired results within budget.

#### Track #4 - Weed Identification and Control

#### Kai Umeda, University of Arizona

What you will hear>>This workshop will cover the basics of weed identification to focus on the complex interaction of weeds and turf in differing soil profiles under various field use levels, maintenance programs and environmental conditions. Attendees also will examine samples of turf treated with various chemical weed controls to observe the effects of treatment.

#### General Session 1:30PM - 2:15PM

#### KEYNOTE SPEAKER - THE EASY SIDE OF SPORTS TURF MANAGEMENT: PRESENTING A PROFESSIONAL IMAGE

#### Kim Heck, STMA Executive Director

What you will hear>>Take charge of your career by making a personal commitment to professionalism. We live in an image-conscious world in which presentation is critical--it just isn't enough to work hard. You'll learn easy tips on how to enhance your professional image at your facility. Portraying a high level of professionalism can influence how others view you and add to your credibility as a sports turf man-

#### Round Table Discussions 2:15PM - 4:00PM

Each topic will be repeated three (3) times, for 30 minutes at a time, with a 5-minute "move" period in between. Participants may choose the topics they wish to discuss, with a three (3) topic limit. Each discussion will be attendee driven based on the issues that are raised by the participants in each of the groups within their 30 minutes session.

#### POR CONTROL

Jay Warnick, CSFM, BYU-Idaho

#### BEING YOUR OWN RESERRCHER

John Netwal, CGCS, North Scott Schools, Iowa

#### TRAFFIC REMEDIES

Mike Schiller, CSFM, Sodexho-Lake Forest Academy

# welcome to the future of green replication



When it comes to green replication, not much has changed over the past several years...until now.

Introducing the entirely new GradeMaster 3D Grading System. This box scraper automatically restores greens and other contoured areas to their original state, allowing you to maintain and refinish with unparalleled accuracy and efficiency.

Using Trimble machine control technology, the GradeMaster 3D allows contractors to topo the existing surface and recreate the original design once work is completed.

The GradeMaster 3D offers a comprehensive, automated process to return greens to their original design specs.

If you would like to learn more about this revolutionary grading system, click on www.laserleveling.com for more information.



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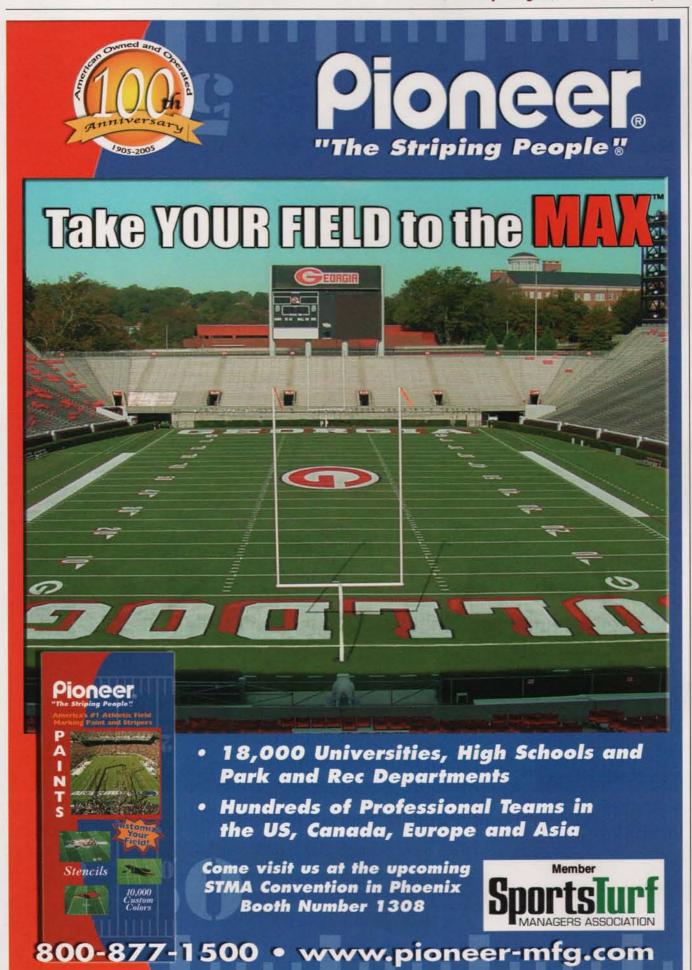


**QUANTIFYING TRAFFIC -**PERSON HOUR MODEL Dr. Dave Minner, Iowa University

#### WATER MANAGEMENT ISSUES

Bradley Jakubowski, University of Nebraska

Jimmy Rodgers, CSFM, University of Virginia



#### MANAGING UNION PERSONNEL

Steve LeGros, University of New Hampshire

#### PLANNING FOR YOUR RETIREMENT

Dan Brockett, Penn State Cooperative Extension

STUDENT FORUM Chad Follis, Integrated Turf Solutions

#### ONLINE AGRONOMIC TOOL

Syngenta Professional Products has updated and enhanced its customizable online management tool, GreenCast (www.greencastonline.com).

This unique 30-year-normal disease mapping resource is designed to help turf managers:

- \* Plan for the likelihood of destructive diseases like anthracnose, dollar spot, brown patch or pink snow
- \* Track disease pressure movement and plan preventive applications.
- \* View data that shows the predictive averages of turf disease onset in a

particular geographic area, using historical data.

Other recent enhancements to the GreenCast Web site include:

- \* Higher-precision pest forecasting maps that are updated more frequently.
- \* Improved navigation and quicker access to the information turf professionals need.

To learn more about Syngenta products and services call 800-395-8873.