



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**

888-298-8852 Fax 317-298-8852

www.greensgroomer.com

GreensGroomer WorldWide, Inc., Indianapolis, IN

Copyright © 2004 GreensGroomer WorldWide, Inc. All rights reserved.
U.S. Patents 5833013, 6655469. Other Patents Pending.

Circle 155 on card or
www.oners.ims.ca/4570-155



SportsTurf
MANAGERS ASSOCIATION

Experts on the Field, Partners in the Game.



**NEW
PRODUCT!**

**NEW TORO
FAIRWAY GROOMER**

The new Toro Reelmaster fairway groomer stands up turf and reduces grain for a cleaner, more uniform cut. The enhanced quality of cut improves after-cut appearance and provides a truer, more consistent playing surface. The fairway groomer also knocks off morning dew to minimize grass clumping and helps with clipping dispersion. In addition, the groomer cuts some of the stolons and runners, enabling re-rooting and regenerative grass growth. And when set at the full depth of 3/16-in. below the height of cut, it can also help control thatch.

The Toro Company/952-888-8801
For information, circle 075 or
see <http://www.oners.ims.ca/4570-075>



**BEACON
ATHLETICS**

Beacon Athletics offers training, conditioning and athletic field equipment to improve the performance of athletes and the fields they play on. Higher field performance, athletic training & conditioning, safety, reduced field maintenance costs, and improved facility appearance are our goals. Call to speak with our experts or visit us on the web. Beacon Athletics/800-747-5985
For information, circle 066 or
see <http://www.oners.ims.ca/4570-066>

TIFSPORT

Why Does This
Certified Georgia Bermudagrass Variety
Make Such Good Sense for Sunbelt Playing Fields?

Upright Leaf Blade Orientation

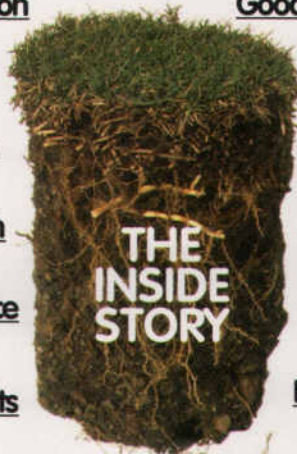
Impressive Leaf Texture

Superior Turf Density

Superior Sod Strength

Proven Drought Resistance

Lower Nutrition Requirements



Good Lateral Growth Rate

Dark Green Color

Improved Cold Tolerance

Better Pest Resistance

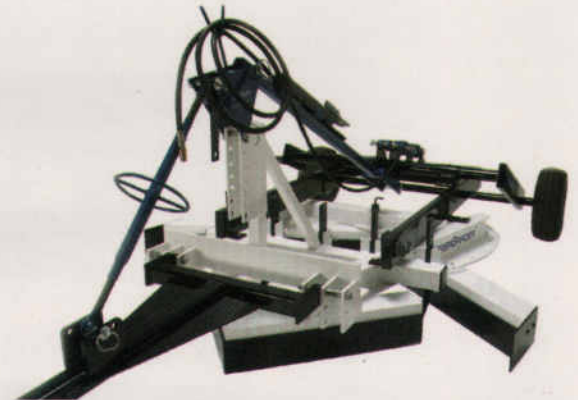
Excellent Traffic Tolerance

Extensive Root System

For More Information and a List of Licensed
Certified TifSport Growers Visit:
www.tifsport.com

**PULL-BEHIND
GRADER/LEVELER**

VersaGrader's Balance Equalizer System maintains desired leveling angle at all times. The front blade of the Double-V Leveling System cuts through high spots as adjustable rear blades level and redistribute material leaving a finish grade. The Parks and Recreation Model is especially suited for athletic fields. Sekely Industries/330-337-3439
For information, circle 069 or
see <http://www.oners.ims.ca/4570-069>



Circle 156 on card or www.oners.ims.ca/4570-156

NEW
PRODUCT!



SEEDER ATTACHMENT

Bobcat Company introduces a slit seeder attachment that can handle various types of grass seed and cover several acres per hour. The seeder has a double roller seedbed conditioning system made up of a series of notched press wheels. The front roller crushes lumps and represses small stones to form a firm seedbed. Seed is precisely metered with the proper spacing and at the right depth, where it will germinate quickly. The rear roller splits the shallow ridges formed by the front roller and gently firms the soil around the seeds.

Bobcat Company/701-241-8700
For information, circle 077 or
see <http://www.oners.ims.ca/4570-077>

NEW GATOR FOR TURF

John Deere's new Gator TX Turf, with its quiet foot-pedal operation, turf-friendly tires and increased comfort, specifically meets the needs of turf care professionals. The units feature a 13-hp Kawasaki FJ400 engine, all-wheel suspension and all-wheel hydraulic disc brakes. The pedal-start design allows for the convenient start and stop operation.

The all-wheel suspension and a three-inch-longer wheelbase enhance ride quality as well as operator comfort. And, for increased productivity, the Gator TX Turf boasts a 44-in.-long cargo box with a 600-lb. capacity and an overall 1,000-lb. payload/towing capacity.

John Deere/800-537-8233
For information, circle 076 or
see <http://www.oners.ims.ca/4570-076>



NEW
PRODUCT!



You are the MVP and the game hasn't even started.

Serious players at every level need great fields to perform to their fullest—and they're counting on you to make it happen. Through wet springs and dry summers, *Turf Athletic's™* will help you dramatically improve your playing surface—guaranteed. You'll get a broad range of infield and turf conditioners to prevent rainouts and maximize safety on any athletic field. And you'll get a lot of thanks from your players. For over 40 years, on more fields across America than any other brand, nobody does it better than Turf.

Get connected to the industry's largest network of sports field knowledge. Start by ordering your FREE *Sports Field Safety Audit*, a 52-point examination and report to help achieve on-field excellence.

CALL 1-800-207-6457.



Keeps America Playing™

baseball · softball · soccer · football



The most widely
used field conditioners
in America

www.turf.com

Circle 157 on card or www.oners.ims.ca/4570-157

**YOUR "ONE-STOP SOURCE"
FOR AMERICA'S LEADING
BASEBALL SURFACES & SUPPLIES!**



THE PROFESSIONAL'S CHOICE
... SINCE 1922

A SUPPLIER TO EVERY MLB TEAM,
OVER 150 MINOR LEAGUE TEAMS,
OVER 700 COLLEGES, PLUS THOUSANDS
OF TOWNS & SCHOOLS WORLDWIDE.
SPECIAL MIXES FOR INFIELDS,
PITCHER'S MOUNDS & HOME PLATE AREAS.

**REGIONAL INFIELD MIXES AND
RED WARNING TRACKS FOR
EVERY STATE & CLIMATE FROM
BULK PLANTS NATIONWIDE!**

PLUS INFIELD CONDITIONERS:
IF TOO HARD AND POORLY DRAINING!

Pro's Choice®

THE REDDER, LESS DUSTY, MORE UNIFORM
INFIELD CONDITIONER & DRYING AGENT
FOR CONSISTENT INFIELD CUSHION
IN WET OR DRY WEATHER!

DIAMOND PRO®

IMPROVES DRAINAGE & ENHANCES COLOR!

IF TOO SOFT & DUSTY!

STABILIZER® & HILLTOPPER®

FOR FIRM, YET RESILIENT, PLAYING SURFACES

TO QUICKLY DRY INFIELDS!

The Original & Most Absorbent is Now

NEW & IMPROVED GRANULAR

DIAMOND-DRY.



WHAT!
We Came 100 Miles
And You STILL Don't Use
**DIAMOND
DRY!**



OVER 200 OTHER INFIELD PRODUCTS!

Premium & Standard in 6 Colors!

FENCEGUARD®

Protective Safety Covers
for Chain Link Fence

WALL PADDING • WINDSCREEN • RAIL PADDING
TAMPERS • DRAG MATS • RAKES
HOLLYWOOD® BASES • FIELD MARKING MACHINES
BATTING PRACTICE COVERS • RAIN COVERS
PERMA-MOUND™ PADS • MOUND BRICKS
SAFE "T" MATT™ BATTER'S BOX PADS
TYPAR® GEOTEXTILES & TURF BLANKETS
ON-DECK CIRCLES WITH TEAM LOGOS
PERMANENT FOUL LINES & MUCH MORE!

FOR INSTRUCTIONS & BROCHURES
www.BEAMCLAY.com

800-247-BEAM

908-637-4191 / FAX 908-637-8421

PARTAC PEAT CORPORATION

KELSEY PARK, GREAT MEADOWS, NJ 07838

**"The best infield mix I've ever used."
— GEORGE TOMA**

Circle 158 on card or www.oners.ims.ca/4570-158

turf maintenance equipment

SIDEWINDER BROOM

Turf Teq, LLC has a new self-propelled broom to complement its SideWinder line. Brush pressure, brush speed and pivot angle (left/right) can be adjusted easily from the operator position. Units are being used to clean infill systems. The multi use capability of the SideWinder also allows the base unit to be converted into a walk behind bed edger/mini trencher.

Turf Teq, LLC/866-503-8873

For information, circle 070 or

see <http://www.oners.ims.ca/4570-070>



**NEW
PRODUCT!**

"SUPER SPIKER"

The Terra Super Spiker is a five-gang turf spiker that can be used all season long for aeration, over-seeding, and fertilization. It is ideal for infields to puncture surfaces and help dry fields in wet conditions. Working depth is variable from zero to 2.5 in. by dial-in adjustment. 13 points per blade, 70 blades over a 66-in. working width and weight can be added for better penetration on hard surfaces. Ball hitch trailer design comes with hydraulic cylinder and hoses for easy hook-up and transport mode.

Broyhill/800-228-1003, x34

For information, circle 072 or

see <http://www.oners.ims.ca/4570-072>



HANDOZER SL

The new Handozzer Sports Landscape system by 3 in One Industries is a drag that rakes/scarifies/grades/moves and finishes soil all-in-one time saving machine. The electronic unit is made of double-welded 3/8-in. steel, has replaceable carbide teeth and powdercoated steel components. Optional rollers are available.

Most utility vehicles will tow.

3 in One Industries/866-50-FLOAT

For information, circle 073 or

see <http://www.oners.ims.ca/4570-073>



**NEW
PRODUCT!**

NEW TOPDRESSERS

Millcreek has two new topdressers, called Turf Tiger Cubs, with 1.8 and 2.3 cu. yd. capacities, designed for smaller budget operations. Both units feature the Saber Tooth beater that increases application speed without compromising spreading precision. This beater allows you to apply material even if it is wet and clumpy, up to 6 ft. wide. Units can apply light or heavy coverage, up to 1 in. in a single pass, for materials such as compost or other bulk turf materials.

Millcreek Mfg./800-311-1323

For information, circle 080 or

see <http://www.oners.ims.ca/4570-080>

NEW
PRODUCT!



NEW
PRODUCT!



NEW AERATOR

Schiller-Pfeiffer, Inc., presents a new concept in aerating with the Classen SA-25 Stand-Aer. This ride-on unit has a 24-in. operational turning radius (zero turning radius when tines are not in use), and has an operational and transport speed of up to 4.7 mph. The core depth is controlled hydrostatically up to 3 in. and the 36 tines offer a hole-pattern of 4.06 x 7 in. and an aerating width of 24.375 in.

Classen products are now available through over 3,000 Little Wonder commercial sales and rental equipment dealerships.

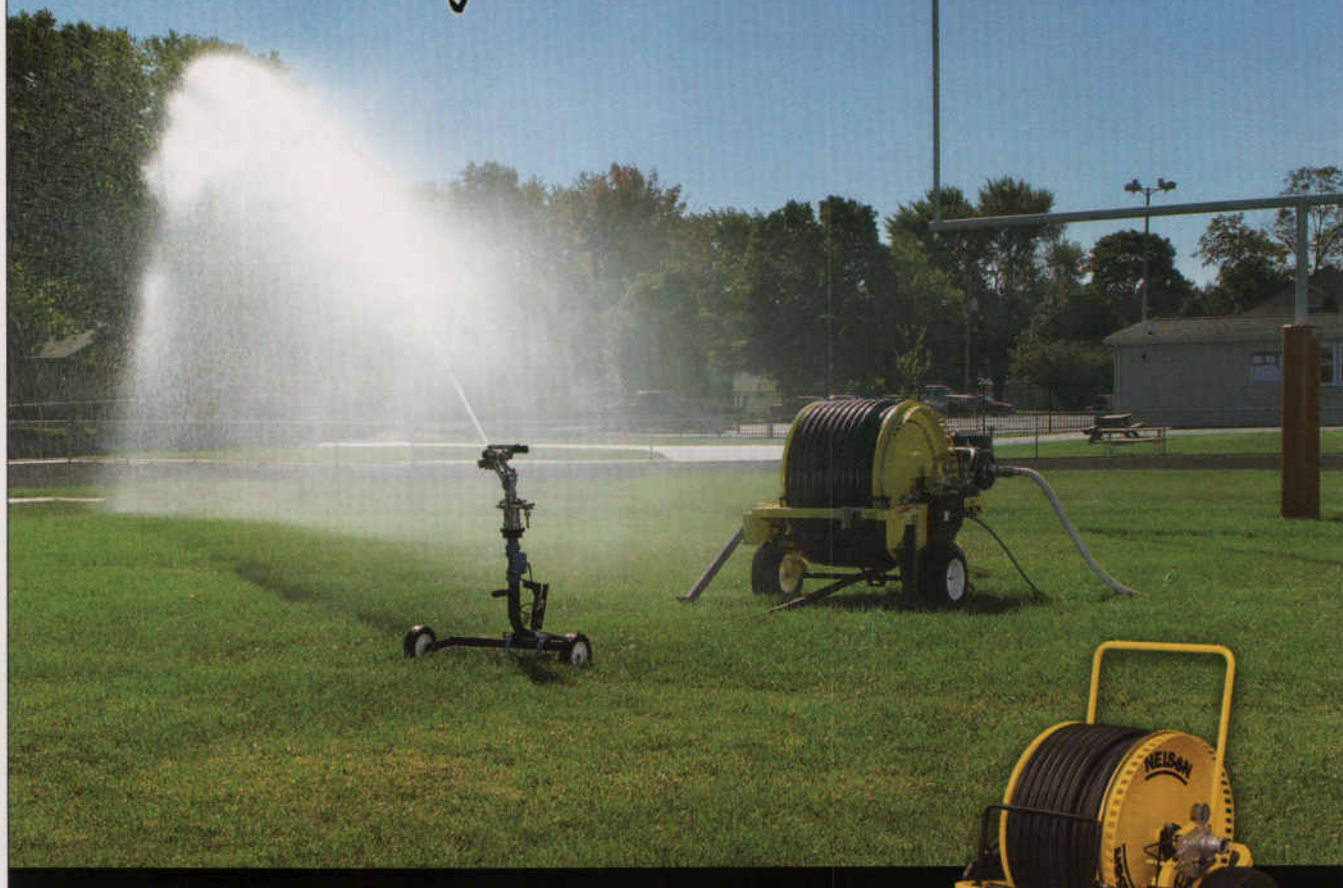
Classen/877-596-6337

For information, circle 078 or

see <http://www.oners.ims.ca/4570-078>

All play and no work.

Introducing the WaterTrain® Series



- Self-winding reel- no more dragging around hoses!
- Easily moves from site to site.
- Automatic shut-off when watering is complete.
- Speed control on machine allows water application rates to be adjusted.
- It even waters on a radius!
- Minutes to set-up. Less time! Less labor! Less cost!
- Optional 8407 5.5 hp Honda booster pump for locations with moderate pressure.



8403



8406

NELSON TURF

Quality. Service. Guaranteed!

Made in the U.S.A.

L.R. Nelson Corporation
One Sprinkler Lane
Peoria, IL 61615 • U.S.A.
(888) NELSON-8 • LRNelson.com

Circle 159 on card or www.oners.ims.ca/4570-159



1-PASS GROOMING

For infield grooming, SISIS recommends the QUADRAPLAY system, fitted with Rake/Lute/Roller/Brush, and for renovation work Spiker-Slitter/Grooming Rake/Roller/Brush.

The Quadraplay has a frame incorporating a carrying platform to carry hand tools and materials. Implements can be arranged in any sequence and are independently adjustable. The same range of implements can also be used on turf areas, making the QUADRAPLAY a very flexible implement.

SISIS Inc/864-843-5972

For information, circle 067 or

see <http://www.oners.ims.ca/4570-067>



OUT-FRONT DECK FROM EXMARK

Based on a new mowing platform developed for use with Exmark's new rear-discharge, 4 3/4-in. deep cutting decks, which offer trimming capabilities on both sides of the deck, the Navigator out-front deck is available in 42- or 48-in. cutting widths. Both models feature a blower fan that works in conjunction with Exmark's baffle design for better vacuuming performance and cutting efficiency.

Exmark Mfg./402-223-6300

For information, circle 081 or

see <http://www.oners.ims.ca/4570-081>



KORO
BRILLIANT INNOVATION
BUILT "SPORT" TOUGH

TOPDRAIN - Silt drainage made easy
• Three (3) sand filled trenches, 1.5" w x 8" d at 20" oc.

SALES & CONTRACT SERVICES



RECYCLING DRESSER - aerate 7" deep
• Topdress your own root zone in one pass, no more plugs!

NEW! VERTICUT REEL AVAILABLE



FIELD TOPMAKER - strip turf, mulch & load in one pass

Dealership opportunities

North American Distributor
GreenONE Industries 866-KOROUS (567-6872)
www.korosystems.com

REVOLUTIONIZING THE SPORTS TURF INDUSTRY

Circle 160 on card or www.oners.ims.ca/4570-160



SELF-LOADING MOBILE SCREENER

Clear the soil of stones, roots, and other debris. Create perfectly screened topsoil for seedbeds, ball fields or infield mixes with the Harley 4-ft. 740 Mobile Screener. The 740 is a tractor powered unit that is compact and maneuverable. Use the 740 with the Harley Power Box Rake to assist in picking-up windrows or as a complete one step seedbed preparation tool.

Glenmac Inc/800-437-9779

For information, circle 105 or

see <http://www.oners.ims.ca/4570-105>



BOX RAKE ATTACHMENT

The power box rake attachment for Toro's Dingo compact utility loaders transforms rough terrain into a prepared seedbed. Box rake is great for sod preparation and rock removal as well. Units feature pure carbide teeth and triple-sealed, shielded roller bearings for harsh soil conditions and longer life.

Adjustable Rhino-Hide barrier allows you to choose size of material left in seedbeds.

The Toro Company/800-344-8676

For information, circle 103 or

see <http://www.oners.ims.ca/4570-103>



HEAVY-DUTY DETHATCHER

A purpose designed, heavy-duty dethatcher, the SISIS VEEMO uses tungsten-tipped cutting blades for maximum thatch removal with minimum surface disturbance. Three independently floating heads follow ground contours closely without scalping. Depth of cut is infinitely variable by means of a locking micro-adjuster on each unit. Available as an option is the ECO-VEEMO with En-Bio "no-burn" synthetic, biodegradable hydraulic oil.

SISIS/864-843-5972

For information, circle 102 or

see <http://www.oners.ims.ca/4570-102>



We Make The Games Look Better.

Field Marking Paints
Custom Stencils & Logos
Field Marking Equipment
Tennis Court Accessories

WORLD



CLASS

athleticsurfaces

(800) 748-9649

www.worldclasspaints.com

Circle 161 on card or www.oners.ims.ca/4570-161

Award winners share softball field tips

Two turf managers who recently won an award from the National Fastpitch Coaches Association share some tips on maintaining infield skins:

West Point

Mike Rubbino, athletic facilities manager for the United States Military Academy, says, "Each day starts with a hand watering, amount is condition dependent. We have an automatic system but use it sparingly to avoid over or under watering. It is important to control the moisture level of your entire playing surface, not just the turf areas. It is not uncommon to water the infield as many as four times a day.

"Next up is the hand work. Scrape and fill the wear spots with extra emphasis on the plate and mound, and don't forget the bullpens. If you use the same level of attention in the bullpens, your pitchers and catchers will notice," Rubbino says. "Hand rake a 4-foot circle around all four bases and pitching mound to avoid over dragging these sensitive areas. To avoid lip buildup hand rake three or four feet around the edge of the infield.

"Scarify lightly while dragging. You can get more aggressive with the scarifier when the field has a day off. Water again lightly as needed and finish up with another light drag or a cocoa mat. Paint the pitching rubber and home plate. Install freshly painted bases and touch up the transition areas between the warning track and the infield with a rake.

"Switch the direction that the field is dragged daily to prevent material from building up at the edges. Maintain the field in the off-season at least twice a week until the ground freezes and get back on it as soon as possible in the spring, which is February at West Point," says Rubbino.

Texas A&M

The Texas A&M softball field was built in 1994 on what was a dairy cow pasture, relates Craig Potts, assistant manager for athletic fields. The heavy clay soil profile does not allow for any internal drainage, which can make things a challenge for the staff during a rain event, says Potts.

The Tifway Bermudagrass turf is over seeded with perennial ryegrass and mowed at 3/4 of an inch every day when possible. Like most baseball and softball fields the main area of concern is the skinned area. The key to having a good skinned area is the right amount of moisture, says Potts. "To get ready for games and practice we will start with a mat drag to smooth out the infield from the practice or game from the day before. After we drag we will sweep out our mound and batter box areas to get ready to clay our holes," he says. "We then start watering the dirt with heavy coats of water until water is standing on the infield.

"We then monitor the skinned area to stay on top of the moisture in the dirt. We will probably water the dirt two more times before lunch," Potts says. "After lunch we will water the dirt again then start applying clay for the mound and plate areas. Once this is finished we will continue to monitor the moisture in the skinned area



Photos courtesy of USMA

and apply water if needed.

"About 30 minutes before the field will be used we nail drag the infield and then apply a finish drag. If more water is needed we will then apply another coat. Our goal is to get as much moisture in the skinned area as possible without allowing the top part of the skinned area to bake up in the sun," Potts says. "We will apply conditioner on an as needed basis; the calcined clay products seem to work best for our skinned area." **ST**

Online continuing education for busy landscape professionals.

LANDSExpo

Design, Selection, Implementation and Maintenance

Conference and Tradeshow
March 23, 2005
 Texas Station, Las Vegas, Nevada
www.GreenIndustryEducation.com
 Satisfying CEU requirements just got easier!

ADVANCE REGISTRATION FORM

Please print and mail completed form with payment to Unlimited Access Co.
 7100 Sunnyslope Avenue, Van Nuys, CA 91405 or fax to 818-764-3363

Name _____
 Company _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____ Fax _____
 Email _____

- Online Conference (\$75 before 2/1/05, \$95 after 2/1/05)
 - On-site Conference (\$120 before 2/1/05, \$140 after 2/1/05)
 - On-site Conference Group of 3+ (\$100 before 2/1/05 only)
 - On-site Exhibits Only (\$30 before 2/1/05, \$50 after 2/1/05)
- Exhibits Only includes (1) continental breakfast and (1) buffet lunch

Payment Information

- Check Am Ex Discover Visa MasterCard
- Number Attending, \$ _____ Total Fee _____

Note: There are no refunds, registration can be transferred if you are unable to attend. Unlimited Access Co. will show on your statement as credit merchant.

Cardholder _____
 Card Number _____
 Expiration Date _____ Zip _____
 Authorization Signature _____

Online / On-site Conference - Select 3 Sessions

- 1) Tree Selection-New Varieties - 7:00 a.m. to 9:00 a.m.
 CEUs Applied For: ASLA, CCA, DPR, GCSAA, ISA
 William Baker, Representing UCR Extension
 Dennis Swartzell, Mountain States Wholesale Nursery

Find out about the latest tree varieties appropriate for the southwest. This session will take you from how a nursery selects, tests, evaluates, and introduces new varieties to factors that affect the suitability of a particular species' use. Factors discussed will be pest problems; cultural considerations; effects of fertility, irrigation, and pruning; and much more!

- 2) Pesticides on Turfgrass - 8:00 a.m. to 10:00 a.m.
 CEUs Applied For: CCA, DPR, GCSAA
 Jay Gan, Ph.D., University of California, Riverside
 Bruce Kidd, Dow Agro Sciences

Maintenance of high quality sports turf, including golf courses, rely on the adequate use of pesticides in order to protect against pests, and restore the competitive balance in favor of the turf. This session will cover two facets of pesticides on turfgrass. One will be the fate of pesticides in the environment and strategies for minimizing pesticide runoff and offsite movement. The other will cover cultural and chemical practices for managing specific weeds in turfgrass with various stressful conditions. Examples will be drawn from golf courses and professional sports fields, all the way down to your children's beat-up soccer fields, with suggestions how you can help create and maintain a safer and better performing turfgrass.

- 3) Assessing Plant Stress - 7:00 a.m. to 9:00 a.m.
 CEUs Applied For: CCA, DPR, GCSAA, ISA
 Angela O'Callaghan, Ph.D., University of Nevada, Cooperative Extension
 Susan Sims, Sims Tree Health Specialists

Plant stress equates to compounding plant problems. They must be distinguished in order to treat them properly. Understanding a plant's resource allocations and defense mechanisms allows one to approach stress problems with a proactive approach utilizing prevention and avoidance techniques. This session will focus on proper plant selection and plant health care methods to minimize problems resulting from plant stress.

- 4) Irrigation Design - 8:00 a.m. to 10:00 a.m.
 CEUs Applied For: ASLA, CCA, GCSAA, IA
 Bob Morris, University of Nevada, Cooperative Extension
 Tom Ash, HydroPoint Data Systems

In our arid climate, irrigation design is the most important factor in establishing a water-use efficient landscape. Proper design must incorporate the appropriate heads and layout with the correct choice and location of valves. This overview of irrigation design will explore the various factors that influence evapotranspiration (ET) of plants, and microclimates. Add to that a discussion of the new generation of "Smart" ET controllers, and you have a session that will showcase how the landscape industry at all levels can benefit. A demonstration of the WeatherTRAK "smart" ET controller will be highlighted.

- 5) Tree Health - 10:00 a.m. to 12:00 noon
 CEUs Applied For: CCA, DPR, GCSAA, ISA
 M.L. Robinson, University of Nevada, Cooperative Extension
 Susan Sims, Sims Tree Health Specialists

Good tree care is truly holistic if trees are going to survive and prosper in the urban environment. One needs to be proactive from the beginning by selecting the proper species, and planting and establishing it correctly. A significant portion of good tree care comes from knowing what is going on below ground in order to prevent or correct problems above ground. As trees age, one must understand the "mortality spiral." This session will feature a comprehensive program to manage health, structure and appearance of trees in the landscape.

- 6) Turfgrass Selection - 11:00 a.m. to 1:00 p.m.
 CEUs Applied For: ASLA, CCA, DPR, GCSAA
 Kent Kurtz, Ph.D., California State Polytechnic University, Pomona
 John Rector, Turf-Seed, Inc.

Specific turfgrasses are necessary for specific uses from a front lawn to a sports field. Grasses need to be able to spread and recuperate after injury and provide wear tolerance for all types of sports and activities. Turfgrass species and maintenance techniques suitable for the high desert environment will be reviewed along with breeding efforts, new releases, and the latest varieties available featuring improved heat, salt, and wear tolerance.

- 7) Soil Issues - 10:00 a.m. to 12:00 noon
 CEUs Applied For: CCA, DPR, GCSAA, ISA
 Shoumo Mitra, Ph.D., California State Polytechnic University, Pomona
 Dirk Muntean, Soil and Plant Laboratory, Inc.

Many times the landscape professional is faced with the declining health of landscape plants. This session will focus on the long-term improvement strategies for plant health and vigor by learning the basics of soil science. The role of soil amendments and fertility as they relate to physical and chemical properties will be discussed, along with commonly observed landscape problems and possible solutions.

- 8) Irrigation Efficiency - 11:00 a.m. to 1:00 p.m.
 CEUs Applied For: CCA, GCSAA, IA
 Shoumo Mitra, Ph.D., California State Polytechnic University, Pomona
 Mike Baron, Walla Walla Sprinkler Company

As water becomes an increasingly precious commodity, maximizing irrigation efficiency is a must. Learn the factors that affect irrigation efficiency in the field, such as sprinkler performance, installation considerations, and site conditions. Additionally, learn how to measure the irrigation efficiency of a particular irrigation system. Innovative techniques to conserve water will be discussed at length.

- 9) Pros & Cons of Micro Injections - 1:00 p.m. to 3:00 p.m.
 CEUs Applied For: CCA, DPR, GCSAA, ISA
 Tim Paine, Ph.D., University of California, Riverside
 Marc Merman, Mauget

Micro-injection is controversial! It provides for convenient, environmentally sound placement of small amounts of systemic pesticides directly into a tree, yet it wounds trees. This method of pesticide delivery is widely used by government agencies, but is it used appropriately? Injection wounds serve as points of entry for pathogenic organisms, but wouldn't a pruning cut do the same? The answers to these questions and more depend on the tree, the pest, the economics of labor, training, materials, and the perceptions of the clientele. Nonetheless, should one follow the edict of "do no harm?"

- 10) Evaluating and Amending Soil - 2:00 p.m. to 4:00 p.m.
 CEUs Applied For: CCA, DPR, GCSAA
 Kent Kurtz, Ph.D., California State Polytechnic University, Pomona
 Dirk Muntean, Soil and Plant Laboratory, Inc.

There are many types of soils used for the construction and establishment of turfgrasses on sports fields. Poor soil physical properties and fertility imbalances reduce turf health, quality, and performance. Many potential problems can be solved by thorough examination and correction prior to turf planting. This session will provide the turf professional with a check list of potential problem areas that can be adjusted or corrected prior to turf installation by considering types of field materials or soils, pre-plant fertilizers, and organic amendments.

- 11) Soil Erosion Control - 1:00 p.m. to 3:00 p.m.
 CEUs Applied For: CCA, GCSAA
 Rod Dahl, USDA
 Al Schrand, Fiber Marketing

Competition for the very limited water supplies of the arid west has led to intensive changes in land use strategies. Part of this session will focus on a project located in the Newlands Project, Nevada, where multiple factors have contributed to the demise of irrigated farmland. Because of these factors, this area suffers severe wind erosion. Related to this focus will be a discussion of new technologies in erosion control along with how biostimulants and soil amendments can virtually eliminate failures.

- 12) Irrigation with Reclaimed Water - 2:00 p.m. to 4:00 p.m.
 CEUs Applied For: ASLA, CCA, GCSAA, IA, ISA
 Dale Devitt, Ph.D., University of Nevada, Las Vegas
 David D. Davis, David D. Davis and Associates

Population growth and continued drought conditions in the southwest are forcing many large turf and landscaped areas to transition to reclaimed water (tertiary treated sewage effluent) for irrigation purposes. This session will feature a number of considerations regarding the use of reclaimed water: cost; the pros and cons; similarities and differences with conventional systems; environmental, social, and functional limits; maintenance issues; and most importantly, managing soluble salts.

Now there is a choice!

Attend Online:

The latest internet technology provides even dial-up online attendees virtually all on-site features!

Online attendees will have audio/visual of speakers and their PowerPoint presentations. Includes: virtual exhibits, selection of (3) 2-hour sessions and downloadable hand-out materials. Attendees can forward questions to speakers and hear speaker answers in real-time.



Attend On-Site:

On-site conference registration includes: exhibits, selection of (3) 2-hour sessions with hand-out materials 1 continental breakfast, and 1 buffet lunch.

CEUs Applied For:

ASLA (States TBD)
 CCA (Nationally)
 DPR (States TBD)
 GCSAA (Nationally)
 IA (Nationally)
 ISA (Nationally)

www.GreenIndustryEducation.com • 877-964-6222



COMMERCIAL ROTORS

Toro Irrigation's new TR Series rotors enable you to fine-tune spray trajectory, make easy adjustments, and shut off water flow for maintenance. Rotors will cover a 25-77 foot area. The TR50 3/4-in. rotor adjusts in only seconds with a twist of adjustment band. There's no "plus or minus anything" as long as the arrows are aligned to where you want to water, you're done.

Toro Irrigation/800-664-4740
For information, circle 057 or see <http://www.oners.ims.ca/4570-057>



ROTATOR SPRINKLER

Walla Walla Sprinkler Company has a new model, the 8-15 ft. MP1000, which increases the product line's performance range to include throw distances of 8-30 ft. The new development is the company's response to market requests for a shorter-throw MP Rotator within a 90-210 degree arc.

Walla Walla Sprinkler/509-525-7660
For information, circle 059 or see <http://www.oners.ims.ca/4570-059>



TRAVELING SPRINKLER

Pioneer's Traveling Sprinkler is a self-propelled irrigation unit designed to be an economical alternative to costly in-ground watering systems. Simply plug a hose into the back of the unit, draw out the guide cord to the end of the desired run, and turn on the water. Water pressure from the irrigation supply powers the traveling sprinkler down the field at travel lengths up to 440 ft. The sprinkler automatically shuts off at the end of the pass.

Pioneer Manufacturing/800-877-1500
For information, circle 054 or see <http://www.oners.ims.ca/4570-054>

QwikDRAIN® Fields deliver Value, Performance & Safety



4 1/2" of rain won't stop the Rugby Tourney

"On May 3,4 of 2003 Stanford University hosted the College National Rugby Championships at Steuber Field. Concerns were high as the fields had been deluged with over 4 1/2" of rain on the two days prior to the match."

This was the true test for the newly reconstructed field because Stanford University opted to stay with native soil and install a new high performance QwikDRAIN® System.

"Indeed, the rain continued heavy up until the time of the first match. We then played eight matches over two days. At the completion of the last game the field showed almost no evidence of any wear whatsoever."

"Your field at Stanford exceeds the standards we met at World Cup."

-Douglas Arnot, Pres/CEO, USA Rugby Football Union

"Since the installation of the system, we have not had to replace any turf on the field. The performance has exceeded our expectations."

-Dave Rulli, Manager of Stadium Operations, Jefferson County Schools



- Virtually invisible, permanent aeration & drainage system designed for your native soil profile
- Dramatically reduces downtime renovation and maintenance costs
- Convert your native soil field into a high performance QwikDRAIN® Field in one (1) week for as little as \$.75/sf.
- Turn your existing drain system into a high performance QwikDRAIN® System for as little as \$.35/sf.
- Solves issues related to "Reclaimed Water"



STAY NATURAL
with ...
QwikDRAIN® Systems

A Division of GreenDNE® Industries

Kelly Walsh High School Stadium, Casper, WY

Toll Free: 866-567-6872

Circle 160 on card or www.oners.ims.ca/4570-160

PORTABLE HOSE REEL

The Hannay GH1100 portable hose reel features a detachable steel handle-bar, a one-piece foot and rubber-tired wheels. A camlock brake device is used to brake the reel, and payout and rewind are made easy with lifetime bearings and an adjustable tension control.

Hannay Reels Inc/877-60-REELS
For information, circle 055 or see <http://www.oners.ims.ca/4570-055>

