### Turfmarkers manufactured by Jaydee

Jaydee pioneered water mix, latex-based, line painting for turf in1961. Since 2001, we have focused more than ever on the idea of "user friendly." Easy to set up, quick to use and clean up, combined with sturdy construction and long life means we can help stretch field maintenance budgets as far as possible. We have always prided ourselves on fast parts service after point of sale. Since introducing our new Turfmarker Models 15 and 30, we have noticed a drastic reduction in parts calls. Our products are designed with the operator in mind. www.turfmarker.com





### Speeflo PowrLiner

Professional and non-professional athletic field, turf, and pavement users prefer to use line stripers that can be used to stripe turf, grass, and pavement as well as within the budget of municipalities, townships, recreational commissions, athletics organizations, schools, cities, and line striping companies. These machines can withstand rigorous regular use on turf, grass, and pavement and are light enough for easy transportation; easy to operate and maneuver; easy to clean and maintain. Speeflo PowrLiners are built for precise and consistent line striping without the fuzzy and uneven lines that result from conventional air spray systems. www.paintspraversLV.com

# Kromer's painting system

Kromer offers the best, simplest, and quickest way to mark your fields with a complete line of riding units that are available with our exclusive Ultra Pressure 300 psi painting system. A high pressure painting system providing crisp, precise lines with no over spray and uses 50% less paint! Our riding units are fully self-propelled can apply dry lines, wet lines, grooms, paints, conditions, sprays and will cut and paint a line at the same time. Available in natural turf or synthetic turf models and can be configured to meet your needs. www.kromerco.com



# Sports turf paint from sports turf manager

The sports turf paint developed by a pro sports turf specialist now available for groundskeepers everywhere. Spin Martin, formerly head man for the Indianapolis Colts, used this paint he helped develop for 17 years before "going public." Spin feared that the formula would be modified in order to cut costs. He declined the major paint company's proposal and has recently decided to devote himself to the cause of making this turf paint available to groundskeepers. www.HDSportsPaint.com





Redexim Charterhouse's The Eliminator removes the

infill material from synthetic turf playing surfaces by using a soft rotating brush to lift the material to a conveyor belt system, which must be driven alongside the machine for collection and disposal. The Eliminator is the perfect machine for small repairs, recycling and quick removal of all synthetic turf systems.

www.redexim.com



# **Tools&Equipment**



### Install, repair synthetic turf

The Turf Monster has revolutionized synthetic field installation. Generic cart

style machines have been available for years but Turf Sewing Machines has taken the basic cart style machine and added their patented rear puller system, which essentially provides the pulling power of two machines in one. As a result, this translates into less downtime, minimal part replacement, and significantly less labor. Now the operator pulls the trigger and the machine will pull itself. Also available are shears, threads, parts, cutters, and same day repair service.

www.TurfSewingMachines.com

## Environmentally friendly infill

A soccer field infilled with InfillPro Geo is similar to the highest quality natural grass fields and it guarantees the possibility to use the field intensively, even under bad weather conditions. InfillPro Geo by Limonta Sport, Italy remains only solution for infilling synthetic turf with materials that are 100% environmentally-friendly and atoxic. InfillPro Geo is produced with carefully selected, specially-treated organic and blended fibers. Advantages include better shock absorption, no unpleasant odors, cleaner appearance, constant degree of humidity, non-toxicity, and a shape that provides better stability vs. sliding spherical granules.

www.geosafeplay.com







# New anti-bacterial sprayer

Gravely Turf introduces the new SaniTurf anti-bacterial sprayer. With an 80-gallon, low-profile poly tank, the SaniTurf distributes athletic hygiene products, disinfectants, sanitizers, fungicides, virucides and mildew stats. A boomless nozzle assembly sprays a 30foot swath at 40 psi, and it avoids potential boom snags with a conventional boom. Powered by a 3.4 hp Briggs & Stratton engine, the SaniTurf also features a six-roller pump which provides a maximum 31.8 gpm and up to 100 psi.

www.ariens.com

### ENHANCE YOUR FIELD WITH REDFIELD Infield Conditioner and Warning Track Mix





### Polytan CoolPlus System

The latest development from Polytan LigaTurf offers an alternative to reduce the temperatures of synthetic turf systems. Polytan CoolPlus synthetic turf system uses new grass fiber technology and a thermoplastic infill to create a major reduction in temperatures when compared to conventional syn-

thetic turf systems. The system combines the infrared light reflection LigaTurf CoolPlus filament with a Polytan BionPro Infill, which has the same IR reflecting properties and makes the system even more effective. Testing shows that under conditions where the temperature of conventional systems would range between 115-140 degrees F, the Polytan LigaTurf CoolPlus system can achieve a reduction of more than 20%.

The infill BionPro plays an important role in the complete system, as in 3rd generation systems the infill is by far the component with the highest bulk weight and therefore absorbs a considerable amount of heat. www.polytan-usa.com

### AstroTurf launches astroflect technology featuring Bonar Coolgrass

GeneralSports Venue has launched astroflect Technology featuring Bonar Coolgrass, which significantly reduces surface temperature when compared to a typical synthetic turf field. This technology allows the fiber to reflect infrared light and dissipate heat into the atmosphere instead of being absorbed into the yarn. The first installation was at The Meadows School in Las Vegas.

www.astroturfusa.com

## Facility&Operations

#### Continued from page 23

Dr. McNitt's latest MRSA research study, "Survival of *Staphylococcus aureus* on Synthetic Turf," was completed in December 2008 and co-funded by the Pennsylvania Turfgrass Council and the Synthetic Turf Council (http://www.synthetictur-fcouncil.org/associations/7632/files/Staph%20report-FINAL-McNitt%2012-19-08.pdf). The study included one indoor and three outdoor sites. It concluded:

"Under non-extreme temperature and very limited light conditions present during the indoor portion of this study, *S. aureus* survived on both synthetic and natural turfgrass for multiple days. However, the bacteria do not appear to thrive under these conditions as the numbers of surviving bacteria decrease significantly with time. *S. aureus* survival seems to be greatest on the fibers compared to the crumb rubber infill. Commercially available antimicrobial treatments as well as detergent significantly decreased the survival rate of *S. aureus* present on these surfaces indoors although every experimental unit inoculated tested positive for the presence of *S. aureus* for the first 4 hours and a number were still positive 9 days after inoculation. Commercially available detergent and the cationic surfactant SportsClean applied around the time of inoculation resulted in no live bacteria detected after 24 hours.

"When S. aureus is applied to outdoor surfaces under conditions

of higher temperatures in the presence of UV light, the bacterial survival rate was much lower. It is difficult to draw conclusions regarding the effectiveness of various treatments in an outdoor environment because the bacteria do not appear to survive very long under these conditions whether treatments were applied or not, but both detergent and fabric softener applied to the surface around the time of bacterial inoculation seem to reduce *S. aureus* survival somewhat. However, exposures to UV light and higher temperature seem to be the most effective disinfectant under the conditions of this experiment. It should be noted that *S. aureus* survival rate on a common turfgrass species used for athletic fields in the Northern United States was comparable to the survival rate on synthetic turf when no disinfectants were applied."

"Andy has shown that synthetic turf is not a breeding ground for dangerous microbes," says Doug Schattinger, president of Pioneer Athletics, which markets a system to treat synthetic surfaces to fight staph transmission. "In fact, an athlete is no more likely to be exposed to staph on a synthetic turf field than in many different areas throughout the athletic environment. What is unique about synthetic turf, however, is that unlike grass, an athletic program can treat the playing surface to help prevent the transmission of staph and MRSA. I am hopeful that Andy will be able to expand on his research in future studies."



### FIELD OF THE YEAR



# **Bowers & crew** lead Hokies to College Football Field of the Year title

WORSHAM FIELD AT LANE STADIUM on the campus of Virginia Tech in Blacksburg, VA was honored by the STMA with its 2008 College Football Field of the Year Award. Jason Bowers, CSFM, the Hokies' sports turf and athletic grounds manager, led the winning team, assisted by his crew of Buford Meredith, Emerson Pulliam, Andy McReynolds and Nick McKenna.

Lane Stadium's field, which hosted its first game in 1965 despite the stadium's construction not being completed, was named in 1992 for Wes and Janet Worsham, longtime Hokie supporters.

In 2001 a \$2 million renovation featuring a Green Tech ITM tray system was installed, featuring Patriot bermudagrass. Bowers overseeds with Revenge GXL perennial ryegrass after the second



football game in mid-September, at 10 pounds pure live seed per 1,000 square feet. And after every game, depending on amount of surface disruption, another 5-10 pounds/1,000 sq. ft. is applied to high wear areas, Bowers reports. Beyond Hokie football (Lane Stadium is ranked 2nd in an ESPN poll of "Ten Scariest Places to Play), the field hosts fantasy camps, kicking camps, scrimmages, spring game and practices, band practices, hands-on training for turfgrass management majors, as well as a research field day, FFA teacher workshops, and also serves as a recruiting tool for high schoolers considering green industry majors.

Bowers reports in his award entry: "The summer of 2008 was one of the driest and coldest in Blacksburg's history, with a 6-inch rainfall deficit and average highs in May, June, July and August of 70, 81, 82 and 79 degrees, respectively, and average lows of 46, 57, 58 and 56. Bermudagrass has obvious limitations in this climate even in a warmer than average summer, and loss of color due to frost typically occurs in mid-October. However, it is the grass of choice of the Tech coaching staff due to their desire for the "fastest" playing surface possible. "Due to the aggressive growing nature and density of Patriot, successful overseeding presents major challenges. While facilities further south can aggressively vertical mow their bermudagrass fields before overseeding with no significant decrease in field footing and playability, Blacksburg's climate is not suited for such aggressive seedbed preparation. Therefore, the plant growth regulator Primo Maxx is used to retard bermudagrass growth before overseeding, followed by multiple, light applications of sand topdressing to achieve the necessary seed-to-soil contact for establishment in such a thick bermudagrass canopy.

"Another challenge faced with Patriot and its density is scalping potential. Simply raising the height of cut is not acceptable for this field because of the coaching staff's desire for a fast surface. After consulting with Toro's head mechanic, we decided to reduce the aggressiveness of the attitude in bedknife adjustment rather than raising the cutting height. By making a negative one degree attitude adjustment on the bedknives, we have had no further scalping issues and this information has been shared with Patriot field managers from professional to high school levels.



## FIELD OF THE YEAR

"All state agencies are required to participate in the Virginia Department of Conservation and Recreation's nutrient management program. This program presents challenges on a sand-based field in that seasonal N application totals are restricted to no

more than 4 pounds per 1,000 square feet on bermudagrass. Therefore, our approach to deal with these limitations is to our achieve turfgrass growth and color needs by using granular forms of polymer-coated and organic materials, and supplementing additional N needs with foliar applications of water soluble fertilizers. These fertility strategies have allowed Virginia Tech to make great strides in going 'green."

**SportsTurf:** How has the recession affected your operations?

**Bowers:** Things are a lot tighter moneywise than I have ever seen it. We really have to try and fix things ourselves and find out what we can do without for a while until the new

fiscal year. Some renovation projects have been postponed for a year or two.

**ST:** What changes to your maintenance plans are you expecting to make this year, if any?

**Bowers:** I do not plan to make many changes. Just try to take advantage of the price breaks on chemicals and supplies when companies offer them in the winter. When crunch time hits and the budget is running thin, it helps at the end to have some of the things you need for spring on hand.

**ST:** What's the best piece of turf management advice you have ever received?

Bowers: I have received a lot of advice over

the years from some great people. The one thing that has stuck with me over the years was a piece of advice I received when I was 21, working at a small golf course in Maryland. The assistant superintendent, John Easterday, told me "When you become a turf manager,

no matter where you go, respect your employees. You will know who the good ones and the bad ones are and if you listen to their opinions and let them have input while showing them respect, the good ones will stay and work with you not just for you."

I have tried to take that advice everywhere I've worked. A little motivation to keep your employees happy and wanting to work with you, not so much for you. I coordinate a flag football game at the end of football season on the game field with my guys and we've played golf together a couple times, too. I feel I have the best crew in the nation and I want them to feel appreciated. With out my crew, there is no way I could have won Field of

the Year.

**ST:** How do you balance your work and personal time?

**Bowers:** It goes back to having good employees around you. I have an assistant in charge of softball, an assistant in charge of baseball, a graduate assistant in charge of soccer and a grounds foreman who has been with Virginia Tech for 47 years who is in charge of our track fields and cross country course. I take on the task of the two football fields, but with the help of these guys, we get everything done. It's hard in the fall to have time off, but we all balance off weekends (usually when the football team is traveling) where one or two people might take off one week and then rotate the next week. I want my guys to know family is very important, so if they need to spend some time at home, I will gladly give them the time off to do so.

**ST:** How does the pressure of having your field on national television at least several times a season affect your approach, maintenance-wise or preparation-wise, if at all?

Bowers: At first it was BIG!! Everything had to be perfect! But after a couple of years I have relaxed some on that. It still has to look great, but player safety is our most important goal here. I know every turf manager says it, "safety is first, aesthetics is not that important," but do they really mean that? Coach Beamer is really good about this. He wants a fast, safe playing surface and for years our field was just white lines with nothing in the endzones; very plain and not a "VT" in sight. But over the years we have been able to add things to the field. Usually if you have a good root mass and healthy turf, the field will look great. But that's the easy part. Making sure all the divots are filled in and the moisture levels are good on the field for a safe playing surface is what really means the most to me.

**ST:** How has being a Certified Sports Field Manager helped your career?

**Bowers:** Well along with my associate's degree from Virginia Tech, I am hoping my Certification helps me out when it comes to future employment. I have been told that if I had my bachelor's degree I would have more job opportunities.

Having my CSFM is something I am very proud of and I hope employers see that I took the time and have the knowledge to become a CSFM. It is a great tool for sports turf managers to take advantage of and I hope more of our STMA members try to get their CSFM.

The STMA Field of the Year Awards Program has been made possible through the generous support of its sponsors. They include: Carolina Green Corp.; Covermaster, Inc.; Hunter Industries; Turface Athletics/Profile Products, LLC; Scotts Professional Seed; and World Class Athletic Surfaces.



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## **Membership Application**



Experts on the Field, Partners in the Game.

Cut Here #

This form is only valid for first time STMA National members through Sept. 30, 2009 (membership benefits continue through Dec. 31, 2009)

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Submit via email,	Work Ph:	Home Ph:	Cell Ph:		
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x to: (785) 843-2977					
	Membership Category:				
Or mail with payment to: Sports Turf Managers Association	Sports Turf Manager			\$55	
	Sports Turf Manager Associate* (Additional Member(s) from the same facility)			\$55*	
) Rox 414029	Please select the primary facility type where you are employed:				
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	Commercial Associate* (Additional Member(s) from the same commercial company)			\$75*	
	Affiliate (Person who is indirectly or on a part-time basis, involved in the maintenance/management of sports fields)			\$50	
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	the second second	undation (research, education and sch	olarship)	8	
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	Credit Card: Please do not email credit card info, please call 800-323-3875 to provide Exp Date:				
	Card #	Signature:			

Phone: 800-323-3875 www.STMA.org

company helore you may sign up in the Associate category.

# **STMA** in action Consider STMA Board service

ach year, STMA presents a "Call for Nominations" for STMA voting members to indicate interest in board service. Please take a moment to consider serving on the STMA Board of Directors, or urging a qualified colleague to consider service. The benefits are many. By serving on the board, you will:

Contribute to your professional association

• Be a part of a decision-making body

• Hone your listening, collaborative and other personal development skills

• Strengthen your leadership abilities.

• Make a difference in the strategic direction of the profession

• Garner respect from your employer, your peers and your staff

For 2010, Directors representing Higher Education, Parks and Recreation, Academic membership segments and one At-Large position are up for election. Because the At-Large Director is not membership segment-specific, STMA is seeking nominations from alloting categories of membership.

The Directors representing Higher Education, Parks and Recreation and Academic membership segments will be elected to 2-year terms, and the Director At-Large to a 1-year term.

Per the STMA Bylaws:

• There must be one director representing the Higher Education membership segment, which is any Category I\* or II\*\* person who manages sports fields for institutions that provide education beyond the secondary level.

• There must be one director representing the Parks and Recreation membership segment, which is any Category I\* or II\*\* person who manages sports fields for a parks and recreational facility, municipality, city or other non-profit entity.

• There must be one director representing Category IV – Academic.

• There must be two At-Large Directors, from any category of membership.

All Directors, except one At-Large Director, shall be elected by ballot by a majority of the voting members casting ballots before the annual meeting. One At-Large Director may be appointed by the President.

The Bylaws also define the ascension process to the Presidency, which is determined by the outcome of the Secretary/Treasurer race. In 2009, Troy Smith, CSFM was elected Secretary/Treasurer. He will be placed uncontested on the ballot as President-Elect, and Chris Calcaterra, M.Ed., CSFM, CPRP, who has been the President-Elect, will ascend unchallenged to the President at the annual meeting in January 2010. Abby McNeal, CSFM will move to Immediate Past President.

To have your name considered by the Nominating Committee, please fill out the Nominations Form in this issue, or go to www.STMA.org to fill out an electronic Word document. Be sure to answer the two brief questions included on the form. The STMA Nominating Committee encourages you to also share this form with your peers. The deadline to submit your interest is August 31.

\*Category I - Sports Turf Manager: Person with primary responsibility of employment in the management/maintenance of sports field(s), upon payment of dues and being accepted for membership, may become an active voting member in STMA and is eligible to hold elective office.

\*\*Category II - Sports Turf Manager Associate: Person with primary responsibility of employment in the management/maintenance of sports field(s) AND who is employed by the same organization, team, city or company as a Category I member upon payment of dues and being accepted for membership, may become an active voting member in STMA and is eligible to hold elective office. Each facility must have a Category I member before a person can join this category.

### Congratulations to STMA Members who joined in 1995 and 1996!

We appreciate the continued loyalty and support of our longtime members. Thank you!

1995

David Anderson, P.E. Bruce Boman Gregg Bostelman Michael Buras, CSFM Mark Clay Kathy Conard Charles Forman Mike Hasson James Heinze Mark Hillman Jane Houtman-Sewell Edwin Keeven, Jr. **Rich Riggs Richard Rivera** Frank Rossi, Ph.D. Thomas Rubel Troy Smith CSFM Vickie Wallace Robert (Bob) C Webb Linda Wright

#### 1996

Steve Abella Mike Andresen, CSFM Rene Asprion **Charles Bartlett** Shelby Bartlett Janice Bartolo George Bernardon, CSFM **Bob Beutel** James Boynton III **Richard Buelter** Dave Bunt Richard J Calarco, CSFM Bob Campbell, CSFM B. Scott Clark Joe Collins, CSFM James Cornelius Roger Daigle, CSFM Michael Depew Joseph Dick Kenneth Doherty, P.E **Thomas Donnelly** Steve Dugas, CSFM Alan Dungey Scott Fahrenbruch Ron Felt **Charles Fitzgerald Dick Fluter Bill Fordyce Brad Fresenburg** John Gaffney John Goeders Steve Gold

Scott Harn John Halloran Eric Hansen David Hanus Jim Haun Jerry Hill Mike Hills John Hilson III F. Brian Holl, Ph.D., P.Ag Joel Hubbard Jonathan Hubbs Norman Hummel, Ph.D. Roger Hupe Michael Isabelle Marshall Jennings Samuel Jones Mike Kelly Mickey Landry Barney Lopas **Bill Marbet** Sarah Martin James McComas Monte McCoy Grady Miller, Ph.D. Timothy Moore, CSFM Joseph Munie Larry Munoz Heather Nabozny Newton Nicholson Thomas Nielsen Ken O'Farrell **Rick Parker** Sue Pope Craig Potts **Bart Prather Bret Prather** Chad Price, CSFM **Randy Price** Anthony Rinaldi Tom Robrecht Dale Roe Ken Roth Connie Rudolph, CSFM David Rulli Edward Ryan **Donald Skeens Donald Smith** Steve Stansell **Trevor Vance** Mike Vendegna Jay Warnick, CSFM Andrea Wilson Bryan Wood Luke Yoder



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