

umes of 160 cfm will service most properly laid out systems.

Larger sites or poorly designed systems might need multiple compressor units to provide the air volume needed to purge water from the system. Remember that full air volumes are the key to the best system purging. And be patient, while a simple residential system may take an afternoon, a baseball complex or golf course could take several days of isolating and purging zones.

To begin the winterization process, shut down the water source. If yours is a metered system (which it should be), it may be as simple as shutting a valve. On a pump station designed for non-winter removal, it may be the same—shutting a valve—plus shutting off power. Depending on the pumping system, effective winterization could require suction line removals, hydraulic valve pumping or microchip removal.

Once the water source is shut down, the compressor can be hooked into locations designed or retrofitted into the system. Fire up the compressor and let it build up the desired pressure. Once accomplished, go to the end(s) of the mainline and insert a quick-coupler key into the quick coupler (again, designed in or retrofitted).

When the key is completely inserted, water will begin to flow. Gradually you'll see a combination of air and water; next very moist air and water vapor; and finally just air. Mainline purging is now complete. Large volumes of water are released first through the mainline, making zone-by-zone procedures less time consuming.

Next, go to the irrigation controller and activate it zone by zone. Repeat the same process looking for the same results. Follow this by locating any manual zones, drip zones, fountain system supply taps, lake fill lines, etc., and perform the same process. If additional quick couplers are on site, the same procedure should be followed.

On larger sports facilities, with varied topography, an additional step is taken. After the initial winterization occurs, compressors are shut down. The remaining water is allowed to "pocket." Later, the compressors are reactivated and the remaining water will be purged.

With the system now purged of water for the winter, you can be assured that the minimum amount of water re-entering the system through sprinklers will not accumulate in volumes large enough to cause damage. Beware: systems that rely exclusively on manual or automatic drains will leave substantial water in the piping. Thus, when water enters through the same sprinklers, larger volumes of water accumulate in the piping and freeze damage will occur.

Most of us aren't lucky enough to have contributed to the original irrigation system design; we work with what

we have. But simple compressor hose hook-ups and quick coupler retrofitting in strategic locations will equip crews for good system purging, which in northern climates is a matter of system survival. **ST**

Luke Frank is a veteran writer on irrigation topics. He can be reached at lukefrank@earthlink.net.

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After The Flood

BY JEFFREY L. BRUCE, FASLA, LEED, ASIC

Editor's note: We were working with Jeff Bruce to develop a drainage story for the magazine when Hurricane Katrina hit the Gulf Coast. This article is based on his experiences before Katrina.

As the recovery of the Gulf Coast begins, it is timely to discuss restoration of flood damaged athletic fields and sports surfaces. It is important to understand the impacts of flooding and related issues on field operations. The severity of a flood's impact on the playing field system will be highly variable based upon the length and degree of the flood event. Flood events will have three primary adverse impacts to the playing field system. These include turf inundation, contamination of the rootzone with silt, and contamination of the rootzone with residual chemicals or biological pathogens carried by the floodwater.

Any flood event has the potential to impact the performance of an athletic surface. Catastrophic flood events tend to cause more severe problems

because damage to the community is more widespread, releasing chemicals and other contaminants. Any flood event could require some field reconstruction, particularly turf replacement. The size of the drainage basins where the field resides will affect the time of inundation. In small drainage basins flood events will generally be relatively quick and unpredictable (not allowing preparations to be made) but also short-term. Small drainage basin floods should be anticipated on a more frequent basis. Small basin flooding may last only a few hours or days. Typically these types of facilities will have a history of flooding.

In large drainage basins, the flood event while much less frequent could last weeks or months like the 1993 Missouri River flood. Large drainage basin floods will slowly build for days or weeks as the capacity of the basin is filled. As the capacity of the drainage basin is exceeded, floodwater will inundate the floodplain and low-lying areas. In larger basins, the turf manager has some ability to prepare the field surface for a flood event. The flooding of New Orleans was unique because it had the magnitude of

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STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(Required by 39 U.S.C. 3685)

1. Publication title: Sportsturf
2. Publication number: 0000-292
3. Filing date: September 28, 2005
4. Issue frequency: Monthly
5. No. issues published annually: 12
6. Annual subscription price: \$40.00
7. Complete mailing address of known office of publication:
833 W. Jackson Blvd., 7th Fl. Chicago, Cook Cty., IL 60607.
Contact: Patricia Kaminski, phone (708) 867-7543.
8. Complete mailing address of headquarters or general business office of publisher:
833 W. Jackson Blvd., 7th Fl. Chicago, Cook Cty., IL 60607.
9. Full names and complete mailing addresses of publisher, editor and managing editor:
Steve Brackett, Group Publisher, 833 W. Jackson Blvd., 7th Fl. Chicago, Cook Cty., IL 60607.
Eric Schroder, Editor, 833 W. Jackson Blvd., 7th Fl. Chicago, Cook Cty., IL 60607.
10. Owner: Adams Business Media, Division of MCA Communications, LLC.
Mark Adams, 420 S. Palm Canyon Dr., 2FL, Palm Springs, CA 92262
11. Known bondholders, mortgages and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages or other securities: None
12. Not applicable
13. Publication title: Sportsturf
14. Issue date of circulation data below: September 2005
15. Extent and nature of circulation:

	Average No. copies each issue during preceding 12 months	Actual No. copies of single issue published nearest to filing date
a. Total No. copies (Net press run)	26,300	26,349
b.		
1. Paid and/or requested outside county mail subscriptions	21,894	22,683
c. Total paid and/or requested circulation	21,894	22,683
d. Free distribution by mail outside-county	3,696	2,943
e. Free distribution outside mail	75	—
f. Total free distribution	3,771	2,943
g. Total distribution	25,665	25,626
h. Copies not distributed	635	723
i. Total	26,300	26,349
j. Percent paid and/or requested circulation	85.3%	88.5%

16. This statement of ownership will be printed in the November 2005 issue of this publication. I certify that all information furnished on this form is true and complete. Steve Brackett, Group Publisher

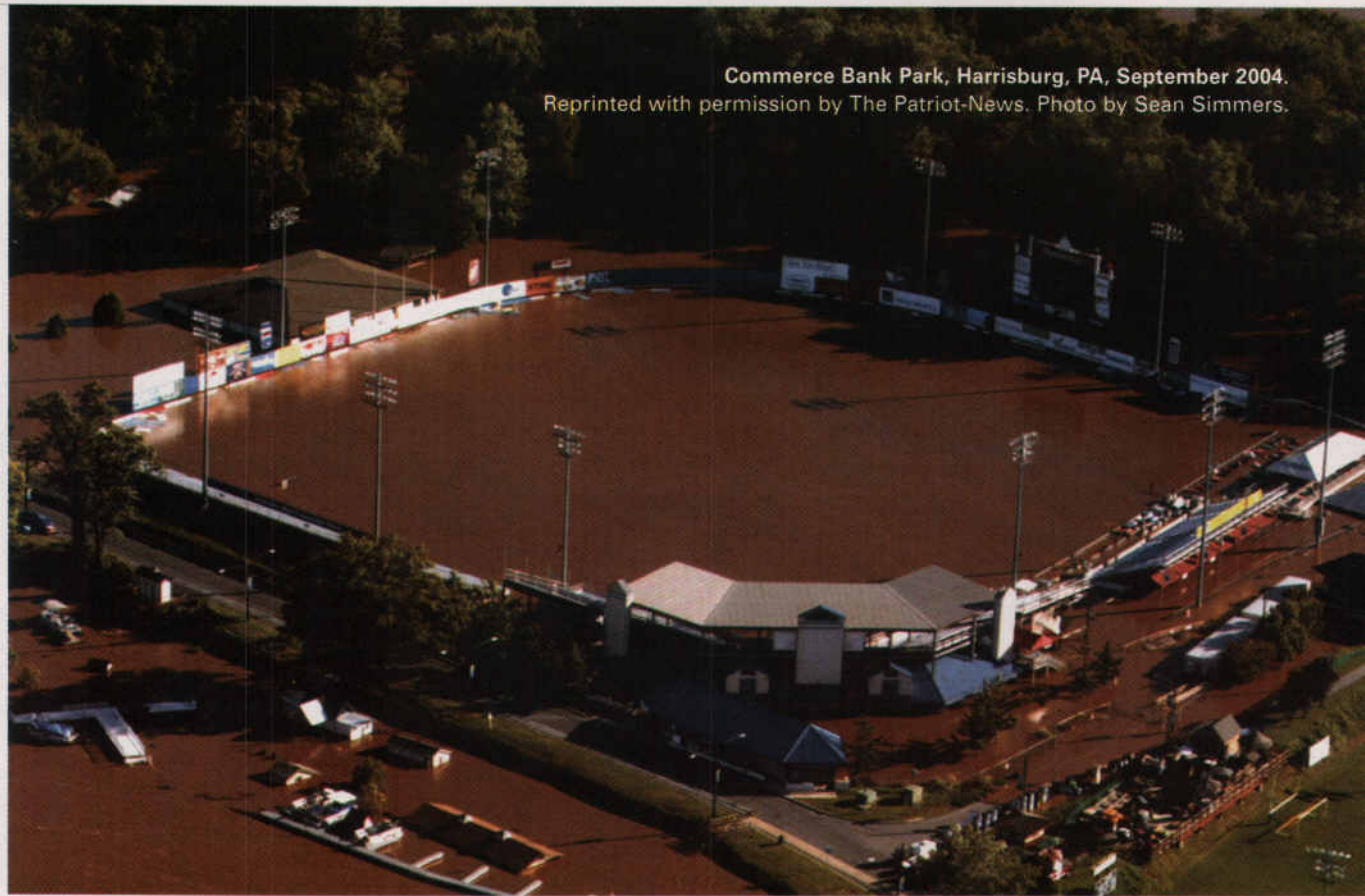
a catastrophic large basin flood, similar to a small basin flood event; allowing no time for preparation.

The first step after a flood event of any duration is to conduct an assessment of the field surface immediately after the floodwater has receded. Photo documentation will provide valuable evidence for insurance claims. Be sure to diligently document the site, noting every detail. We have found you can never have too many photos when you need them. On a site plan, identify extent of turf damage, depth of silt deposition and any grade irregularities as a result of scouring. Check for unusual chemical or biological odors or oily sheens on the surface of the residual silt. This could be evidence of chemical contamination, which may require special remediation. Two composite soil samples should be taken on the field and sent to a lab for analysis.

The first sample should be a composite of 10 to 20 random locations of the silt deposited on the surface of the field. This sample should be sent to the testing lab for a relatively broad screening of chemical and biological contaminants. The chemical and biological screening will provide an indicator of the types of containment present and the relative concentrations. Knowing the composition of the problem will help in defining a mitigation plan for field restoration.

A second sample, with a similar frequency to the first, should be taken of the original growing media. Carefully cut and remove the turf to expose the soil surface and

Commerce Bank Park, Harrisburg, PA, September 2004.
Reprinted with permission by The Patriot-News. Photo by Sean Simmers.



sample the top one to two inches. Be sure not to mix or contaminate the growing media with any silt deposited on the surface from the floodwater. This will distort the results of the test. Have the testing laboratory conduct a particle size analysis (PSA) test on the composite sample. The purpose of this test is to compare the composition of the growing media before and after the flood event to determine if the soil has been contaminated below the turf surface. Look for shifts in particle size or changes

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in the infiltration rates of the growing media. Be aware that small changes in the silt and clay content of a growing media can dramatically change infiltration rates. If the test results of the deposited silt show high levels of contaminants, more extensive chemical or biological screening of the growing media may be necessary to determine to what extent the containment may have migrated into the growing media.

Inundation of the turf is the simplest problem to correct. Depending upon the species, turf can withstand inundation for approximately three to five days, after which the turf will die from a number of physiological problems. Flood events with durations of over 5 days will typically require replacement of the turf. In most cases the playing field would be ready for athletic use within six to eight weeks after sod installation. Once the turf is removed, typical field restoration activities such as grade restoration and protection of utilities occur as normal.

Contamination of the sand based growing media with silts and clay particles carried by the floodwater is a more serious problem. Deposition of silts and sediments on the playing field surface will seal the sand-based rootzone, seriously degrading the system's internal drainage. Depositions of silt as little as one quarter of one inch can contaminate the soil structure, so replacement of the sod is necessary in these situations. Silt deposition is greatest in areas of low water movement, which allow the silt to fall from suspension. Edges of the field will slow water movement and create a condition ideal for silt deposition, so it is a primary concern in this situation.

One preparatory practice that could be considered to reduce flood damage is to lightly roll the field with compaction equipment, as a potential flooding event becomes apparent. This would make the thatch layer in the turf system compress together and act as a sort of barrier to the downward movement of the silt into the rootzone. The thatch layer could then be stripped off after the floodwaters have receded, and small amounts of silt may be removed from the field using this method. Vertical mowing, power raking and verticutting are effective methods of removing silt-laden thatch. These activities should occur while the thatch still has some moisture content. If the thatch is too dry the silt and clay particles will not adhere to the thatch and fall further into the soil when agitated.

Even with small amounts of deposited silt, there is an added possibility of contaminating the rootzone during sod replacement activities. Deposition of larger amounts of silt would probably require field reconstruction. After the flood event, the silt and sediment contamination levels can be assessed through soil testing. The test results can be compared to soil tests before the flood event. In most cases the turf and thatch will act as a filter, trapping a majority of the silt particles. However the sand based growing media will also act as a filter, trapping silt and clay in the top inch or two. If testing indicates contamination of the growing media, it may be possible to remove the top inch of the growing media and capture most of the contamination. Sampling the growing media at various depths may provide a clear picture on how much growing media needs to be removed.

The most difficult and possibly most dangerous problem to address regarding a flood event is the contamination of the rootzone with residual chemicals or biological pathogens carried by floodwaters. Floodwater will often contain varying levels of nutrients, heavy metals, stable organics, phenyls, distillates, pesticides, chlorinated hydrocarbons and other chemicals that are toxic not only to the turf, but could be hazardous to individuals who might come in contact with them. While the Environmental Protection Agency (EPA) establishes safe soil and water thresholds for many of the contaminants, an athletic field constitutes a unique risk which may not be recognized by the EPA thresholds. An athlete has much more dermal contact with the field surface and because of that increased contact it is reasonable to assume they require lower thresholds. When chemical contaminants exceed recommended EPA thresholds the rules of the game change dramatically. Construction and restoration activities are subject to a number of environmental regulations in areas such as disposal of materials, disturbance of the site, protective clothing required to be on-site, and handling of contaminated materials. At this point, it is prudent to restrict access to the site and seek professional help on how to mitigate the problem.

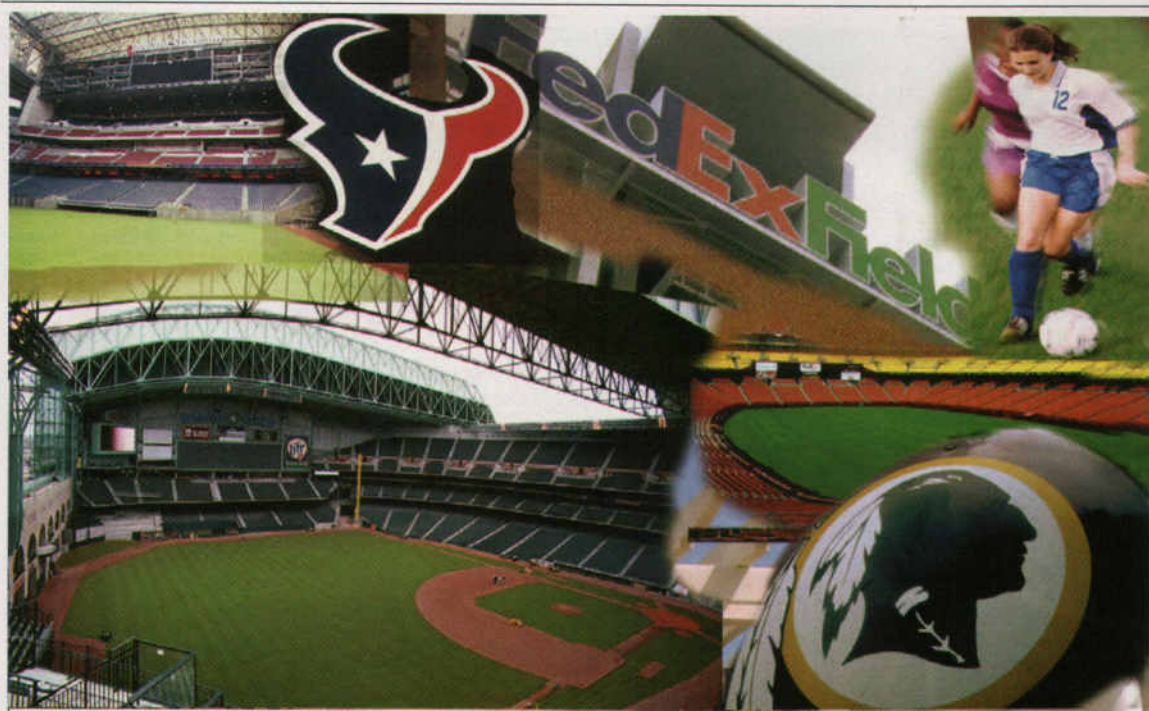
Catastrophic flood events that result in the loss of human and animal life provide an ideal environment for the growth of dangerous biological pathogens. Severe flooding also damages sanitary systems releasing sewage into the floodwater. High nutrient loads, aqueous environments and warm temperatures contribute to an explosion in microbial and bacterial populations. Biological pathogens monitored by the EPA include total coliforms and *E. coli*. In themselves, coliforms generally do not pose a danger to people or animals, but they indicate the presence of other disease-causing bacteria, such as those that cause typhoid, dysentery, hepatitis A, and cholera. A much more detailed discussion of about chemical and biological pathogens can be found at www.epa.org.

Fortunately nature grass fields contain biological activity which will process and mitigate harmful pathogens. The natural activity can be used to restore growing media health. Under most circumstances chemical and biological contamination will be confined to the top three inches of the growing media. Removal of the field surface will go a long way in restoring the health and productivity of the growing media. Just remember handling and disposal of the material removed may be regulated.

The most efficient tool in restoring flood damaged athletic facilities is pre-planning. As a precaution, the turf manager should maintain a list of pre-qualified sod farms that meet the desired field specifications so that, in the event of a flood, approved sod could be procured quickly. As with all catastrophic events, there should be a disaster recovery plan for managing and recovering the damaged turf.

Recovery from a flood event is never fun, but with a good plan, systematic documentation, detailed testing and a lot of hard work it is possible to return the athletic facility to its intended programmed use while ensuring everyone's safety. **ST**

Jeffrey L. Bruce is owner of Jeffrey L. Bruce & Company, a national landscape architectural firm in Kansas City that plans, designs and restores athletic and recreational facilities.



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Calendar

Nov. 1 Look for your STMA dues renewal invoices.
Nov. 21 Delivery of the 2005-2006 STMA Membership Directory to all STMA members and ballots to voting members.
Dec. 4-6 National Association of Interscholastic Athletic Administrators Conference (STMA is an NIAAA education partner and will be presenting)
Dec. 5-7 Baseball Winter Meetings. (STMA sponsors the Sports Turf Manager of the Year Awards and presents the award during their Annual Awards luncheon)
Dec. 13 STMA early Conference registration closes; rates increase on Dec. 14.
Dec. 20 STMA Board of Directors Ballots due to Headquarters.
Jan. 18-22, 2006 STMA Annual Conference & Exhibition, Disney's Coronado Springs Resort and Convention Center, Lake Buena Vista, FL.

Tuesday, January 17

2:00 - 7:00PM Registration
4:00 - 8:00PM Chapter Officers Training, Idea Forum

& Networking Reception
4:00 - 8:00PM Certification Exam (pre-qualification and pre-registration required)

Wednesday, January 18

6:30AM - 8:00PM Registration
6:45AM - 3:00PM Optional: SAFE Golf Tournament - sponsored by Jacobsen, a Textron Company (additional fee and pre-registration required)
7:00AM - 3:00PM Optional: Seminar on Wheels (additional fee and pre-registration required)
4:00 - 6:00PM Sports Turf Networking Kick-Off
6:30 - 7:00PM First Time Attendees Reception
7:00 - 10:00PM Welcome Reception

Thursday, January 19

7:00AM - 7:00PM Registration & Merchandise/Bookstore Open
7:30 - 8:00AM Continental Breakfast
8:00 - 11:45AM Opening General Session
12:00 - 1:15PM Lunch and STMA Annual Meeting
1:30 - 4:00PM Technical Sessions
4:00 - 8:00PM Grand Opening of the Exhibition/Reception
8:00 - 9:00PM SAFE Live Auction

Friday, January 20

6:45 - 7:55AM CSFM Breakfast
7:00AM - 5:00PM Registration &

Merchandise/Bookstore Open
7:30 - 8:00AM Continental Breakfast
8:00 - 10:00AM 2nd Annual Student Collegiate Challenge
8:00 - 10:00AM Educational Sessions
10:00AM - 2:45PM Exhibition Open with Lunch
3:00 - 5:15PM Educational Workshops
6:30 - 7:30PM Pre-Awards Banquet Reception
7:30 - 10:00PM Awards Banquet

Saturday, January 21

7:00 - 8:00AM Past President's Breakfast
7:00AM - 12:00PM Registration & Merchandise/Bookstore Open
7:30 - 8:00AM Continental Breakfast
8:00AM - 12:00PM Educational Sessions
8:00AM - 4:00PM Optional: Offsite Seminar/Workshop conducted by MLB/NFL (additional fee and pre-registration required)
12:15 - 1:15PM Lunch
1:30 - 3:00PM Roundtable Discussions
3:00 - 3:30PM STMA Committee Fair
3:30 - 4:30PM STMA Committee Meetings
4:30 - 5:30PM Conference Closing Reception

Sunday, January 22

8:00AM - 12:00PM Certification Exam (pre-qualification and pre-registration required)

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Fundraising your way to the Student Challenge at Conference

The 2nd Annual Student Challenge competition is warming up and teams are forming. In addition to the actual challenge of the test, students are challenged to find ways to offset the cost of travel, hotel, and food. Here are some ideas to help student competitors ease the cost of the trip:

1) Conduct fundraisers. An auction is an easy fundraiser. The Iowa State University turf students are hosting an auction to raise money to send their team to the conference. They created a strong package of auction items including four tickets to the ISU vs. Kansas State football game, which they received no charge from the university by following the institution's application process. Check with your college or university to see if it offers a similar opportunity. If it does not, ask alumni or a professor to donate a pair of their tickets, a practice that turf students from The Ohio State University have found successful for their auction.

2) Contact your college or universities Student Services to see if it has any mechanism to fund a trip for your student organization.

3) Contact your local STMA chapter. Present your need to the chapter. Explain the importance of sending a team to the annual STMA conference. Each STMA chapter has \$500 in funding from STMA that can be used for funding a student challenge team if the chapter hasn't earmarked it for other approved uses such as educational programs for its chapter members. Volunteer to help provide manpower for the chapter's field day, charitable event, or other gathering in exchange for their financial support.

4) Be a SAFE (The Foundation for Safer Athletic Field Environments) scholarship winner. SAFE is the charitable arm of STMA. Winning students receive a \$500 stipend towards travel or hotel. Last year STMA awarded more than \$18,000 in scholarship and education-related travel expenses.

5) Ask local businesses in the green industry to help support your team's trip. Be sure to make a presentation in writing, citing the importance of sending a team to the STMA conference. Show the conference brochure to the business and point out that the team will share their learning experiences with their

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STMA provides resources and challenges for students

Students are invited and encouraged to attend the upcoming Sports Turf Managers Conference and Exhibition, which will provide them with educational information and essential tools and resources. Don't miss the Student Sports Turf Networking Kick-Off that takes place on Wednesday, January 18. Students can meet other professionals as well as students in the field.

As part of this year's conference, STMA is hosting the 2nd Annual Student Collegiate Challenge, sponsored by Hunter Industries. Teams of 2 to 4 students collaborate and compete on a written exam covering sports turf specific topics such as turfgrass ID, soils, pest management, water management, turf math, and sports field areas, both turf and non-turf. They are also required to identify live plant and weed samples. Prizes are awarded to the winning team. Last year, 15 teams from various colleges and universities participated in this challenge. Shawn Mahonski, Kristen Althouse, Kyle Slaton, and Shawn Meredith from The Pennsylvania State University won first place and received a \$25 STMA gift certificate and the team took home a plaque honoring their achievement.

STMA is also proud to announce a new workshop designed especially for students on Friday, January 20, from 3 to 5:15pm. It will focus on the important transition from being a student to a professional in the industry. This workshop reveals what the students need and should know as they start their first position. Students are the future of the sports turf industry. Learn how to become an expert on the field and partner in the game.

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6) Ask Mom and Dad to contribute to your conference fund in lieu of a birthday or holiday gift!

All student competitors receive a full conference package absolutely free, which includes all educational sessions, the Welcome reception, Awards banquet, all breakfasts and lunches during the conference, through the generous sponsorship of this program by Hunter Industries. Students also have the benefit of the use of a Study Guide, new this year to help them prepare for the test. To download a copy, go to the student section of STMA's website at www.sportsturfmanager.org.

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Sports Turf Managers Association of Arizona:

The 13th Annual Sports Turf Show will be in Yuma December 1, with the golf tournament on November 30th. For more information please contact Larry Munoz at 928-373-5221 or Joel Hubbard at 928-373-5227. For information on the Chapter or upcoming events, contact Chris Calcaterra at e-mail: chris@peoriaaz.com or call 623/412-4231 or Bill Murphy, at e-mail: bmurphy@ci.scottsdale.az.us or 480/312-7956.

Chesapeake Chapter STMA (formerly called Mid-Atlantic Athletic Field Managers Organization - MAFMO Chapter STMA): For information on the Chesapeake Chapter, contact Graham Davis at gdavis@american.edu or call 301/495-5522.

Colorado Sports Turf Managers Association: The CSTMA is looking for 2 Board Members and 1 Commercial Officer for next year's Board. If you are interested, please contact President Richard Buelter. Please plan on attending the Rocky Mountain Regional Turfgrass Association Conference scheduled for December 6-8 at the Holiday Inn (DIA) for more info go to www.rmra.org. For more information about CSTMA visit the website at www.cstma.org or call the Chapter Hotline at 303/346-8954 or President Richard Buelter at 303/233-2922, dbuelter@jeffco.k12.co.us. Thanks to all who hosted and attended this year's seminars.

Florida #1 Chapter: The Florida #1 Chapter will have its next chapter meeting on November 29, in the City of Oakland Park in Oakland Park, FL. For more information on the Florida #1 Chapter or upcoming events, visit the Florida #1 Chapter page

on STMA's website or contact John Mascaro at 954/341-3115 or STMA@turf-tec.com.

Gateway Chapter Sports Turf Managers Association: For information on upcoming events or on the Gateway Chapter, contact Mike Krone, Missouri Baptist College at 314/392-2328 or e-mail krone@mobap.edu.

Georgia Sports Turf Managers Association: For information on the Chapter or upcoming events, contact Skip Kirby at 770/928-1580 or by e-mail at skip@sportsturfmanagement.com.

The Greater L.A. Basin Chapter of the Sports Turf Managers Association: The Greater LA Basin Chapter would like to congratulate Carol Gundlach, CSFM for becoming the first GLAB Chapter member to earn the designation of Certified Sports Field Manager. For more information on upcoming events call Emilio Avalos at 949/824-8243 or e-mail ecavalos@uci.edu.

Illinois Chapter (formerly Midwest Chapter) STMA: For information on the Illinois Chapter or

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upcoming events call chapter secretary Libby Baker at 847/263-7603 or e-mail Bake60ft6in@aol.com.

Iowa Sports Turf Managers Association: The 72nd annual Iowa Turfgrass Conference & Trade Show is January 30 through February 1, 2006, at Polk County Convention Complex in Des Moines. For information on the Chapter or upcoming activities visit www.iowaturfgrass.org or contact Jeff Wendel of The Turf Office at ph. 515/232-8222 or fax 515/232-8228 or e-mail Jeff@iowaturfgrass.org.

Keystone Athletic Field Managers Organization (KAFMO/STMA): For information on the Chapter or upcoming events, contact Dan Douglas, Reading Phillies Baseball Club at 610/375-8469, ext. 212 or by e-mail to: kafmo@aol.com.

Kentucky Sports Turf Managers Association: For information on the Chapter or upcoming events, go to www.kystma.org or contact Donnie Mefford at dbmeff00@email.uky.edu or call 859/257-1451.

Michigan Sports Turf Managers Association (MiSTMA): MiSTMA is offering a scholarship to any

State of Michigan college student pursuing a sports turf education. The deadline is December 2, 2005. Get the application at www.mistma.org. MiSTMA is also offering a 2005 "Field of the Year award." The application is at www.mistm.org. (Note that we are using the STMA application forms.) If you have any questions, contact Mark Frever at 517/629-0227 or by e-mail at mfrever@albion.edu. For information on the Michigan Chapter, visit their website at www.mistma.org or contact Chad Follis at 269/377-3340 or 269/381-0596 or by email at chadfollis@farmngarden.com.

Minnesota Chapter STMA: For information on the Minnesota Chapter, or upcoming events, visit the Chapter website at www.mstma.org or contact chapter President Greg Hoag at 651/486-8295 or by e-mail at greg.hoag@metro-inet.us.

MO-KAN Sports Turf Managers Association: For information on the MO-KAN Chapter or upcoming events, contact Paul Hecker at 913/971-9717 or by e-mail at phecker@olatheks.org.

New England STMA (NESTMA): The New

England Grows event will be held January 31 - February 2, 2006 at the Boston Convention & Exhibition Center in Boston, MA. For information on the New England chapter or other upcoming events, contact David Pinsonneault at 781/861-2757 or email dpinson@ci.lexington.ma.us or Nick Caggiano at 603/589-3370 or email caggiano@ci.nashua.nh.us.

Nebraska Sports Turf Managers Association: Nebraska STMA will be holding their annual chili feed on December 14 in Hastings. For information on the Chapter or upcoming events, contact Loren Humphrey at 402/461-2324 or by e-mail at lhumphrey@cityofhastings.org.

Sports Field Managers Association of New Jersey: For information on the New Jersey Chapter or upcoming events call SFMANJ at 908/730-7770, e-mail HQ@sfmanj.org or visit the Chapter website at www.sfmanj.org.

Ohio Sports Turf Managers Association (OSTMA): Mark your calendars now for the 39th Annual Ohio Turfgrass Conference & Show December 6-8, 2005 at the Greater Columbus

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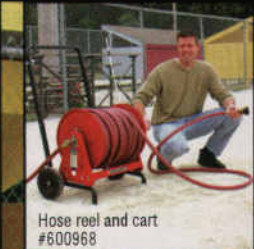
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chapter news

Convention Center in Columbus. OSTMA will hold its annual meeting and lunch on Thursday, December 8, 2005, in conjunction with the Conference. There will be a silent auction at the meeting to help raise funds for the OSTMA Educational Scholarship fund. For more information, contact OSTMA headquarters at 614/354-1196 or Ostma@aol.com. You can also visit our new website at www.ostma.org. The new OSTMA address is PO Box 3426 Dublin, OH 43016.

Pacific Northwest Sports Turf Managers Association: For information on the Chapter or upcoming events, contact Matt Johns at 253/445-4538 or mjohns@puyallup.wsu.edu.

Southern California Chapter: For information on the Southern California Chapter or pending activities, call the Chapter Hotline at 888/578-STMA (578-7862) toll free in Southern California or 760/226-8873 or Michael Tarantino at 858/679-2526 or by e-mail at MTarantino@powayusd.com.

South Carolina Chapter of STMA: For information on the South Carolina Chapter or upcoming events contact Trent Hale, Ph.D. at 843/662-3526 ext. 206 or by e-mail at tchale@clmson.edu for more information or visit our website at www.scstma.org.

Texas Sports Turf Managers Association: The chapter hosted the Annual Scholarship Golf Tournament on October 19 at Tangle Ridge Golf Course in Grand Prairie. It was preceded by a morning educational session and lunch. Money raised goes to support two scholarships offered by the chapter - one for a college student pursuing a degree in sports turf management and one for a professional member who is using an accredited turf program for continuing education. The Annual Business Meeting and Board Elections will be held during the TTA Winter Conference December 12-14 in San Antonio. For more information on the chapter contact T. J. Thompson, President-Elect at txturfmanager@1scom.net or 972/670-2138 (m).

Tennessee Valley Sports Turf Managers Association (TVSTMA): For information on the Chapter or upcoming events, call Chapter President, Chris Pearl at 615/242-4371.

Virginia Sports Turf Managers Association: The VSTMA will participate in and support the Virginia Turfgrass Council Sports Turf Short Course, December 5-8, in Blacksburg, VA. Speakers include Dr. Mike Goatley and Dr. Dave Minner. For information on the Virginia Chapter or upcoming events, please contact

VSTMA President Bob Studholme of the Fairfax County Park Authority at 703/324-8590 or robert.studholme@fairfaxcounty.gov.

Wisconsin Sports Turf Managers Association: For information on the Wisconsin Chapter or other pending events, contact Chris Brindley at 715/346-3622 or cbrindle@uwsp.edu.

Forming Chapters:

North Florida STMA Chapter: For information on the newly forming North Florida Chapter, contact Mark Clay at 904/633-6116 or Jay McCord at 904/448-2583.

New York Sports Turf Managers Association: Contact - Mike Albino by phone at 315/468-6225 or (c) 315/427-1214 or email him at mikealbino@earthlink.net.

Idaho STMA: For information, contact Greg Liggett, at 208/496-2421 or email him at liggett@byu.i.edu.

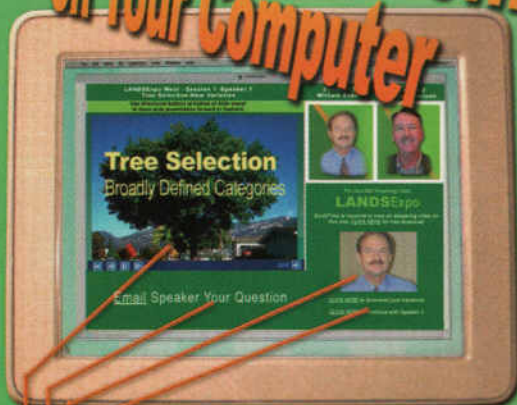
Nevada STMA Chapter: For information, contact Corey Angelo at 702/433-3113 or by e-mail at sls654ASCM@lesco.com.

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