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For information, circle 056 or see www.oners.ims.ca/2086-056



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GeneralSports Turf Systems completed installation of their GameDay Grass MP in less than 6 days for Martin Luther King High School in Detroit. It was the team's first home game in three seasons because the old field was condemned. "We were confident we could meet the tight requirements," said Jon Pritchett, president of GeneralSports Turf.

GeneralSports Turf/248-601-2200

For information, circle 064 or see www.oners.ims.ca/2086-064

MERCER GROUP

Mercer Group is a regional athletic field contractor specializing in high school and college facilities serving the Richmond IN, Columbus, Cincinnati, and Dayton, OH areas.

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Circle 119 on card or www.oners.ims.ca/2086-119

SAVING A WORLD CUP PITCH

When officials look back on the situation, it could have been a tremendous national embarrassment. South Korea's prestigious Daegu Stadium was the site for the FIFA World Cup soccer games and the first match was scheduled for June 6, 2002. However, just months before the match, the turf started falling apart during practice exhibitions.

"The South Korean press started to get wind of the situation and it was a potential public relations nightmare for the stadium, the city and South Korea," recalls Jeong Nam Choe, South Korea sales manager for Novozymes Biologicals, one of the resources called in to help fix the turf. "However, a cooperative effort quickly helped turn the situation around before the start of the World Cup."

Daegu Stadium is Korea's largest, with room for 65,000 fans. Construction of the new stadium was completed on May 20, 2001. It was a coup in itself for the stadium and South Korea to host the World Cup games and city officials had great expectations for the matches.

When the stadium was constructed, the field's pitch was initially established with sod but it did not take root. During an exhibition game in the fall of 2001, the newly hired head coach of the South Korean team noticed the turf was uprooted and the players were sliding on the field. He complained to the mayor of Daegu City, who personally came to inspect the turf.

Recognizing that he had a



Daegu Stadium is a pride of South Korea.

EVEN DAEGU'S MAYOR DEMANDED THE GROUNDS MANAGER TAKE ACTION

serious problem on his hands, the mayor ordered the grounds manager, Soung Yong Tak, to find an immediate solution.

"The grounds manager immediately consulted with the Korean Turf Research Institute (KTRI), which was called in to help," Choe says.

A microbial solution

In the case of Daegu Stadium, KTRI recommended the use of TurfVigor to correct the root quality problem. TurfVigor contains a formulation of beneficial microbes and a blend of nutrients and biostimulants to provide turf with the compounds it needs for growth, health, and stress tolerance. For the Daegu turf, the product helped establish the turf by promoting healthier roots and more efficient water uptake. "I remember that the groundskeeper was doubtful that the product would work at the time, but he had no

choice. He went with KTRI's recommendation," recalls Choe.

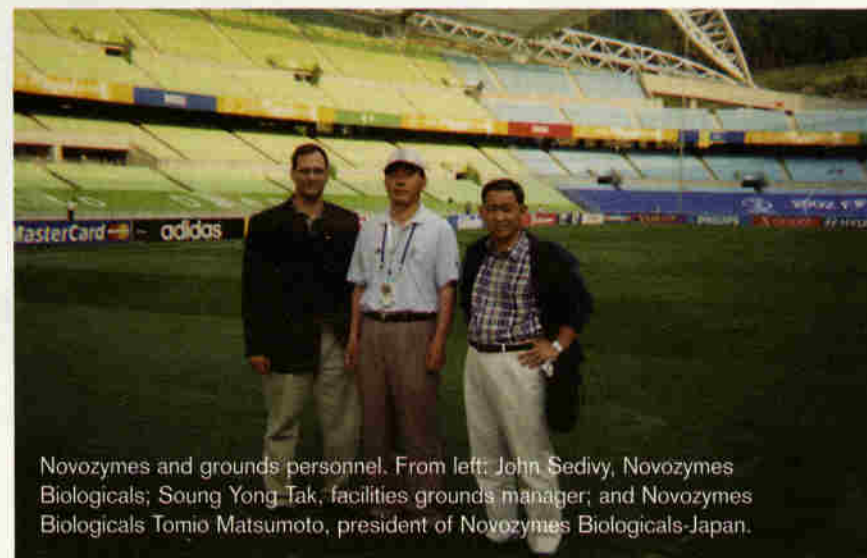
TurfVigor was applied according to the product label starting in October 2001. After timely watering and a month of waiting, the turf managers noticed that the rooting depth increased to 10 centimeters or more and the entire turf condition, including color and growth, soon started to improve. It wasn't long before the stadium had the best pitch of all the Korean football stadiums (there are 10). Once the roots were established, exhibition games were resumed on the turf without incident. And in June 2002, the stadium and the city hosted three first-round matches and the third-place match on a healthy, showcase turf. As Choe recalls, there was a collective sigh of relief.

ST

This story was provided by Novozymes Biologicals, a worldwide leader in the research, development, and manufacture of applied microbiology for commercial use.



The turf at Daegu Stadium looked spectacular during the FIFA World Cup Games in 2002.



Novozymes and grounds personnel. From left: John Sedivy, Novozymes Biologicals; Soung Yong Tak, facilities grounds manager; and Novozymes Biologicals Tomio Matsumoto, president of Novozymes Biologicals-Japan.

STMA AWARDS PROGRAM



The Sports Turf Managers Association (STMA) recognizes that you make personal and professional contributions to our industry and the organization you serve. Both members and non-members are encouraged to participate in the STMA Awards Program.

If you are currently not a member of STMA, please join us.

This year, the following awards will be bestowed at the STMA Annual Awards Banquet, Friday, January 21, 2004, in San Diego, California.

STMA Baseball Field of the Year Award
STMA Softball Field of the Year Award
STMA Football Field of the Year Award
STMA Soccer Field of the Year Award
STMA Complex of the Year Award
STMA Founders Awards: The Dick Ericson Award,
The George Toma Golden Rake Award, The Dr. William H.
Daniel Award, and the Harry C. Gill Memorial Award

Sponsorship of the Awards Program brings the following benefits to the designated individual of each facility achieving the Field of the Year Award:

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Each Award Winning Field is featured in an issue of SPORTSTURF Magazine

All Award recipients will be selected by an Awards Committee made up of five highly-regarded STMA professionals.

AWARDS Sponsors



PLANNING FOR NEW FIELD CONSTRUCTION

BY RAYMOND L. RUDOLPH, JR., PE, AND EDWARD J. O'HARA, RLA



"If you don't know where you're going, you could end up someplace else." Yogi Berra

Imagine you're enjoying a transatlantic flight. The intercom comes on and the pilot says, "Ladies and gentleman, we're almost there. We're still over water, but I expect to see land any time now." After a pause he continues, "Once we do, we'll probably start looking around for a big city, they almost always have airports."

PRESERVE CAMPUS AESTHETICS; PROTECT FUTURE OPTIONS; UNCOVER NOVEL FUNDING OPTIONS.



You need to plan to succeed. Over the years, we have had the opportunity to guide more than 50 collegiate playing fields to completion. All have become high quality facilities, but a few remain "hidden gems" whose potential as a campus showpiece has never been fully realized. A turf field can be a work of art, both functional and beautiful. Unfortunately, without a long-term plan to guide construction, many new fields get tucked away, or placed out of context in a way that does not do justice to the field or the campus as a whole.

The answer lies in starting out with an athletic facilities master plan. Generally speaking, a master plan is simply a "blueprint" that guides construction in a coherent and unified way. Commonly applied for long-term campus development as a whole, it also works beautifully on a smaller scale for athletic facilities. Given the way campus greens are disappearing, it is tempting to say an athletic facilities master plan is a must have for anyone who wants to preserve the traditional look of their campus. Proceeding without one will get you the facilities you needed, but you may lose the traditional "campus" look along the way, which is more important than it sounds. The aesthetics of the physical environment impact a school's ability to attract talented athlete/scholars.

A master plan can determine a school's present and future program needs, the available land, future property acquisitions, and the sequence of construction. This is especially important for schools and universities located in urban areas with little room for expansion. A master plan also helps get the development ball rolling by:

- ° Building consensus among campus stakeholders
- ° Establishing the proper sequence and phasing for improvements
- ° Integrating sports improvements into overall budget
- ° Establishing momentum for future phases
- ° Serving as an excellent marketing tool at fundraising events

From an engineering and landscape architecture point of view, the visible playing surface is just the tip of the iceberg. Before construction, a master plan allows your design consultant to consider the impact that installed drainage, utility, and other underground components will have on future construction. There is some flexibility in applied design solutions. Guided by a master plan, the design consultant can usually develop a solution that avoids limiting your construction options in the future.

Beyond preserving your options, a master plan allows you to explore novel funding



options. There is a new trend in athletic facility master planning whereby joint ventures are pursued between the public and private sectors with the intention of sharing a common facility. For example, a collegiate level team and professional team can share the same sports facility venue. The arrangement is attractive to schools because it brings in additional funding through rental income, can result in a higher quality (professional level) sports facility, and distributes ongoing maintenance costs across multiple parties.

We have had some experience with this. In the course of developing an athletic facilities master plan for Hudson Valley Community College (HVCC) in upstate New York, we discovered the college's football field was under-used and out of step with the school's anticipated needs. In its place, a new baseball stadium that would be shared with the ValleyCats, a Houston Astros affiliate, was designed and installed. In return for use of the facility, the ValleyCats provides HVCC with a rental income that is used to run the stadium. In addition to renting the facility from the college, the ValleyCats donate money to the school's general fund.

Help from the ValleyCats allowed HVCC to redesign and rebuild all of their outdoor sports facilities, including six tennis courts, two football fields, a softball field, a soccer field, two clubhouses, maintenance facilities and parking areas. Between the potential for creating a showpiece facility, preserving future construction options, and uncovering novel funding opportunities, starting with an athletic facilities master plan is becoming a must for any school anticipating major investments in new sports facilities.

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Rudolph and O'Hara are principals at Clough, Harbour & Associates LLP, an engineering, surveying, planning, and landscape architecture firm in Albany, NY, www.cloughharbour.com.

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When to aerate

BY PHILIP THREADGOLD

We all know that aeration aids in solving drainage problems. But when should you aerate?

One should aerate to achieve soil de-compaction when the demand for oxygen is high, when the plant is actively growing, and soil microorganisms are respiring, but there is no straightforward answer. Generally, during spring and fall, when temperatures are near optimum for microorganisms and roots need a great deal of oxygen.

With the warm season, grasses demand for oxygen is high but the turf professional typically has to fight users because of the potential for disrupting play.

Many professionals have questioned the timing of various aeration techniques. Timing is critically important. As a general rule, turf should be aerated when it is growing most vigorously. This gives turf plants the opportunity to recover more readily, especially from rigorous practices like deep tining.

Warm season grasses are best aerated during the summer, not when they are going into or coming out of dormancy. In the case of cool season grasses, mid-summer aeration should be avoided as these

plants are already under substantial stress during hot weather.

Use patterns are another consideration. Professionals need to take into account the level of wear and tear and plan accordingly. Remember that all use is disruptive in nature; coordinating aeration during periods of rapid plant growth, if your usage schedule will permit, offsets this factor. Regardless of the aeration technique, resulting compaction relief is not permanent and professionals are well advised to continue a routine program.

Constructed in 1977 from specs provided by the school's own horticulture professors, the stadium field of New Mexico State University (NMSU) at Las Cruces certainly earns its keep. The natural turf field is used for no fewer than 57 events each year, with more events likely to be added. The story of how the school compensates for such stress on its stadium turf offers lessons for other organizations looking to combat compaction on high-use turf areas.

Pat Montoya, the university's grounds manager and a licensed landscape architect with a degree in horticulture, relies on deep-tine aeration of the field, using a Verti-Drain aerator, two or three times in the

pre-season, usually beginning in April. (He does this again during the season, as the field schedule allows, relieving compaction during the field's periods of heavy use.) Montoya supplements this with an annual hollow-core aeration, pulling cores 3-inches long in May and June.

"We cannot tolerate major disruptions in the field schedule," Montoya says. "Our experience with deep tine aerators that shatter the soil shows that they can be used effectively during periods of heavy field use with minimal disruption. What little disruption it causes is well worth the end result of growing healthier, stronger turf plants."

How frequently should aeration be done? According to Martyn Jones, frequent aeration can only help improve soil conditions. "[You] should not hesitate to aerate as frequently as possible. That said, there is enormous pressure on turf professionals to make fields available for use. The real key is in using the right equipment, equipment that won't damage the playing surface."

Philip Threadgold is executive vice president of Redexim Charterhouse, 570-602-3058.



POWER BOX RAKE

Use the Harley screener/cleaner to screen your fields and make your own topsoil. Use in conjunction with Harley Power Box Rake to remove objects from 1/2 in. to 4 in. in diameter and up to 3 in. deep, making a 3-ft. wide swath.

Glenmac, Inc/800-437-9779
For information, circle 098 or see www.oners.ims.ca/2086-098



DIAMOND GROOMER

Dirt Doctor by Newstripe can plow, pulverize, drag, roll, and broom all at one time. Four models are available to fit your tractor and budget, says Newstripe, which is offering an 18-mo. warranty on these models. Modular hitch means you can tow or 3-point hitch (or both), and lift is industrial quality jack. One person can put the wheels down for transport.

Newstripe/800-624-6706
For information, circle 095 or see www.oners.ims.ca/2086-095



DEERE COMPACT UV

Gator Compact Series utility vehicles are easy to maneuver and can be moved in a pick-up bed. Both 8- and 10-hp Kawasaki gas engine models feature standard 12v DC outlet, high-back bucket seats, and a differential lock. Polyethylene cargo box holds 400 lbs.; tailgate can be opened or removed.

John Deere/800-537-8233
For information, circle 093 or see www.oners.ims.ca/2086-093



GROUND PREP MACHINE

The Blecavator can carry out six operations in one pass. It cultivates down to a depth 6-12 in.; pulverizes the soil into a fine tilth; buries rocks overgrowth and debris levels and rakes; finish roll leaves a firm seedbed or surface for sodding/hydroseeding; and sow seed with optional hopper.

BLEC/864-225-3666
For information, circle 092 or see www.oners.ims.ca/2086-092



POLARIS UV

Sporting an 18-hp V-twin, air-cooled 4-cycle engine, heavy duty transmission and lower gearing, the new Polaris Professional Series UTV 1500 can carry a payload of up to 1250 lbs. and tow 1000 lbs. Foot-activated, 4-wheel hydraulic disc brakes enable quick stopping, even under a heavy load. Polaris Industries/800-765-2747 For information, circle 101 or see www.oners.ims.ca/2086-101



TORO & VIKINGS CONTRIBUTE

Toro volunteer Steve LaNasa shares a laugh with Vikings running back Moe Williams as they help to install a playground. Toro and the Vikings teamed up in late September to kick off the United Way's "Two Weeks to Make a Difference" campaign in the Twin Cities by installing a playground at St. David's Child Development and Family Services in Minnetonka, MN.



GUARANTEE VS. HYDRAULIC LEAKS

Hustler Turf Equipment has introduced a lifetime guarantee against hydraulic hoses and fittings leaks on all models of Hustler Z, Super Z, Mini Z, and Super Mini Z. High-pressure, stainless-steel hydraulic lines with Parker Seal-Lok O-ring face seal fittings provide this protection. Hustler Turf Equipment/800-395-4757 For information, circle 099 or see www.oners.ims.ca/2086-099

HIGH-PERFORMANCE GATORS

John Deere's new HP (High Performance) Series utility vehicles feature 1,300-lb. payload capacity and a hydroformed steel frame. All models have a top ground speed of 25 mph with two-range transmission for pulling applications. Other standard features include all-wheel hydraulic disk brakes; a 12V DC outlet; and hand-operated rear differential lock. Gator HPX 4 x 4 is pictured here; it features 20-hp, 4-cycle Kawasaki engine. John Deere/800-537-8233 For information, circle 094 or see www.oners.ims.ca/2086-094



ONE-HAND WAGON

The Ursa Wagon features a lightweight anodized aluminum frame, large wheels, and high ground clearance. The manufacturer says it's easy to roll up to 500 lbs., even by hand. With a strategically placed fulcrum, the rear weight of the load helps empty the contents in one effortless motion. Ursa's past-90° tilt and unidirectional waterfall-interior ribbing ensure nothing is left behind. Ursa Wagon/866-877-2744 For information, circle 102 or see www.oners.ims.ca/2086-102

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SAFE LIVE AND SILENT AUCTIONS COMBINE FUN WITH FUNDING

The Foundation for Safer Athletic Field Environments (SAFE) was created by the Sports Turf Managers Association (STMA) to provide research, educational programs and scholarships geared to sports fields.

As part of our mission, SAFE is dedicated to supporting students focused on the profession of sports turf management through our scholarship program. Now is your chance to help the future of our industry, STMA and the SAFE Foundation by helping to fund the scholarship program through your contribution of items for the SAFE Live and Silent auctions and the Raffle. These events all will take place at the STMA Conference in San Diego January 21-25, 2004.

Tom Curran, Florida STMA Chapter President, also is an award-winning auctioneer. Tom has been organizing and running this auction for SAFE and urges everyone in the sports turf industry to contribute something to these great fund-raising events. Items such as memorabilia, autographs, clothing, vacation packages, and equipment all help raise funds for this great cause. The 2004 Live Auction will be held on January 22 from 8:00-9:00 PM at the close of the trade show. The Silent Auction will take place on the trade show floor on Thursday, January 22 and Friday, January 23. Join in for the fun. Raise funds for the future of the industry.

Scholarship funds are earmarked for students of two-year programs, students in four-year undergraduate programs, and for grad students focused on a future in the sports turf industry. Information on the SAFE Scholarship program is posted on the STMA website: www.sportsturfmanager.com. Click on 'About Us,' go to the SAFE Foundation, and visit the Scholarship section for the link.

All items that you donate to SAFE are tax deductible. Items should be sent to STMA/SAFE HQ, Attn: Jaci Pettie, at 1027 S. 3rd Street, Council Bluffs, Iowa 51503-6875. Or, to save on shipping and handling, send a description of your donations, and bring them with you to the Conference.

The SAFE Foundation has much work to complete before it can supply the sports turf industry with the desired level of programs. Additional funding is needed to fulfill not only the scholarship program, but also the research and education arms of our mission. Your willingness to consider the SAFE Foundation's request for funding and item donations is truly appreciated.

If you have any questions, please don't hesitate to contact Tom via email (CTomSell@aol.com) or Steve Trusty at SAFE Headquarters by email (Steve@st.omhcoxmail.com) or by phone at 800-323-3875.

