



### Getting to the “core” of the problem

The Toro Co. will showcase its new Toro ProCore Processor, among other items. Designed for large turf areas, the ProCore sweeps, processes and disperses aeration cores in one operation. Hitch the ProCore Processor directly behind a three-point aerator, and one pass will take care of both aeration and processing, the company says. With a 70-inch processing width, it will handle the full-width dispersion of processed material. The aeration cores will break into fine particles through the power of a 35-horsepower Briggs Vanguard engine for even and thorough distribution on the playing surface, according to Toro.

Visitors to Toro's booth will also notice that new features and accessories have been added to the Reelmaster 5010 Series, Sand Pro 3040 & 5040, Groundsmaster 7200/7210 Mow and Snow Workman e2065.

### Mower upgrade

John Deere will introduce the 2653B Trim and Surrounds Mower. The 2653B offers improved traction, operator comfort and serviceability, according to Deere.

The redesigned operator station offers 4 more inches of legroom, provides easier access to operator controls and better access on and off the machine. The 2653B includes the patented WhiteBox electrical controller with standard on-board diagnostics and SOS.

The SOS (sit-on-seat) diagnostics provide increased efficiency on and off the course by allowing operators and technicians to quickly troubleshoot the electrical system without external hand-held components.

### New in irrigation ▶

Rain Bird will showcase some new products, including the EAGLE 351B Rotor Series and the EAGLE 705/755 Wind Tolerant Rotor.

The EAGLE 351B Rotor Series is used to achieve greater short-throw coverage for tee boxes and other small turf areas. It is designed to provide superior water distribution and promote irrigation efficiency. The EAGLE 351B is powered with rugged gear drives and a unique nozzle design for controlled and uniform precipitation from 18 feet to 55 feet, Rain Bird says.

The EAGLE 705/755 Wind Tolerant Rotor is designed to deliver head-to-head water distribution in persistently windy areas; it was created to sustain its range in windy conditions without significantly reducing the distance of throw.

### New surfactant technology

Aquatrols will introduce Dispatch Sprayable, a surfactant technology that focuses on better control of water and more efficient use of fertilizers and applied chemicals. Dispatch Sprayable is an affordable solution for managing water

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across large turf areas for those who cannot or do not inject, according to the company. Dispatch Sprayable offers all the advantages of the original Dispatch chemistry, with the added convenience of an easy-to-spray formulation.

With Dispatch Sprayable superintendents can reduce water use even at reduced ET replacement rates, as well as enhance penetration and uniform movement of other turf management products, Aquatrols says.

◀ **Money, it's a hit**

BASF Professional Turf & Ornamentals is giving away \$6,000 bucks as part of its Win Bucks with BASF Giveaway. All you need to do to win is wear a sticker that says "Better Turf."

More than 100 superintendents will win a share of the money. All they have to do is stop by the BASF booth (2200) to pick up a "Better Turf" sticker to wear throughout the show. The BASF prize patrol will randomly award more than 100 \$50 Visa gift cards to super-

intendents who are spotted wearing their stickers at the show Thursday through Saturday.

Also, all show attendees who visit the BASF booth will get the chance to play BASF Plinko and win a variety of prizes including "Better Turf" Rubik's Cubes, DVDs, MP3 players and disease-identification glasses.

Competitive Rubik's Cube solver Tyson Mao will showcase his skills at the BASF booth throughout the show. Mao, 22, can solve a puzzle in 20 seconds.

**"Wall of Devotion"**

Syngenta Professional Products' booth will pay tribute to golf course superintendents throughout the country. Syngenta will feature 2,000 names of notable superintendents on its "Wall of Devotion,"

Margaret McLean, Syngenta's senior marketing communications manager, said the company wants to shine the spotlight on superintendents at the show.

"We want to recognize their achievements



on behalf of the sport," she says, stressing that superintendents create golf course conditions that are "worthy of devotion" and keep golfers coming back to play.

In addition to a few product announcements, the booth also will feature a replica clubhouse, which McLean says symbolizes the cooperation between superintendents, managers, pros, owners and others in the business.

### "Hyperactive" fungicide

A new fungicide on the block is Disarm from Arysta LifeScience North America. Arysta bills Disarm, a fluoxastrobin-based product, as the "hyperactive" fungicide.

A strobilurin class of chemistry, Disarm offers systemic and protectant properties to provide strong activity on turfgrass patch and blight diseases. The company said 2005 university trial results indicate fluoxastrobin, alone or in combination, provides excellent control of brown patch, summer patch, snow mold, target spot and southern blight.

### Shake and 'Quake

Redexim Charterhouse will introduce a heavy-duty model of its Verti-Quake rotary decompactors — the 3822. The Verti-Quake is a rotary aerator that decompacts the soil using a set of rotating steel blades. As these blades cut cleanly through the soil, they create a wave action that shatters compacted areas and opens up the subsoil. It can work at depths up to 15 feet with little or no surface disruption.



### On the range

Standard Golf will display its new compact Magnum Scrub Pro Range Ball Washer. With its dimple brush design of scattered trim bristles, the Magnum Scrub Pro cleans the dimples in the balls efficiently. The Magnum Scrub Pro is designed to clean 15,000 balls an hour, and it's manufactured of polyethylene material encased in a tubular steel powder-coated frame. In addition, the brushes are reversible for longer use.



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◀ Whack a few bugs

If you want to test your receptiveness, stop by Nufarm Turf and Specialty's booth to play a mallet game. Of course, the game is in promotion of Nufarm's new Mallet 2F insecticide, a systemic product that provides residual protection of turfgrass from grubs and other turf pests. Nufarm says long-term curative and preventive action can be had from just one application per year.

time and money," according to Bayer, and TopChoice Plus Fertilizer allows them to do so.

Merit Tree Injection is another new product from Bayer. The latest addition to the Merit insecticide family contains more active ingredient than other injectable products on the market, the company says. Applicators can inject a higher concentration of imidacloprid with less volume into a tree. The product is translocated throughout the tree to provide systemic protection. It's the fastest way to get Merit into the tree and to the pest, according to Bayer.



◀ In Bayer's bag ...

Bayer Environmental Science will display several new products at the show, including TopChoice Plus Fertilizer. Bayer sought and received registration for use of TopChoice — its insecticide for fire ant control across Southern states — on fertilizer, which saves an application step.

"As fuel costs fluctuate and operating expenses rise, turf managers are looking to save

Watch out worms

DuPont will launch Provaunt, an insecticide that offers broad-spectrum control for black cutworm, fall armyworm, sod webworm and other caterpillar or worm pests. Provaunt contains the active ingredient indoxacarb, which received a reduced-risk classification from the Environmental Protection Agency. Provaunt is rainfast in two hours and fits well in integrated pest man-

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agement programs because of its low application rates. It is also a significant benefit for resistance management, according to DuPont.

DuPont also will showcase its Advion ant bait arena, designed to target a complete spectrum of ants, including the tough-to-control Pharaoh ant, Argentine ant, odorous house ant, big-headed ant and ghost ant.



◀ **Enhanced E-Walk**

Jacobsen will have its improved E-Walk electric walking greens mower at the show. According to Jacobsen, three enhancements improved the functionality of the machine, its durability and ease-of-use for operators:

- A redesigned electronic control unit simplifies the functionality options on the E-Walk. Operators can adjust the settings for reel speeds and mow speeds on the fly by selecting menu options on a LCD screen.
- A new D-handle design specific to the

Jacobsen In-Command control system has also been added.

- Within the base unit, the motors that power the reels and drive the traction system were redesigned for durability. Each features enhanced weather sealing and more efficient heat dissipation, allowing the mower to work harder and longer without sacrificing performance.

**Cool tool**

Par Aide will showcase its new Green-Saver Ball Mark Repair Tool, which features an eight-prong design. A simple press of the handle sends the first set of four prongs into action. These prongs move from the outside of the ball mark to the inside, closing the hole.

Then the second set of four prongs enters the turf at an angle and lifts the turf slightly around the ball mark. The base of the tool works similar to a tamp to flatten the newly repaired area, leaving a smooth putting surface, Par Aide says.

— *Compiled by Larry Aylward*

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## Turf M.D.

■ THE DOCTOR IS IN THE HOUSE

*"We never know the worth of water till the well is dry."*

— Dr. Thomas Fuller, *Gnomologia*, 1732

**T**he most valuable natural resource in the world is water. In a global sense, water is highly conserved, and the total amount of water found on Earth is about the same as when the Earth first formed. The vast majority of water — 97 percent — is seawater. Of the remaining 3 percent, 2 percent is locked up in the ice caps, which leaves only 1 percent of the world's water available for human consumption.

Turfgrasses contain about 80 percent to 90 percent water by weight. Only a small percentage (1 percent to 3 percent) of this water is used for metabolic processes. The greatest amount of plant water is used in transpiration, which is the cooling process in which energy dissipates through water changing from a liquid to a vapor form.

It's estimated that water evaporated from a leaf surface will remain in the atmosphere for about 10 days, before moving to another area to condense. The transformation of water from a liquid to a vapor and then back again in the form of precipitation is all part of the water cycle. However, water deposited from either rain or irrigation to the turf is often lost from the site through transpiration. It is for this reason that golf course water use is always under the environmental microscope.

In this country, the issue of water availability is most evident in the West and Southwest. Rapid population growth and the associated amenities of growth have taxed the availability of fresh water. With myriad demands for water, public and private sectors are under scrutiny to justify water use and protect what they have. In areas of the Southwest, effluent water use has been legislated or priced to make use on golf courses desirable.

The use of effluent water by golf courses continues to be a means of handling a "waste" source environmentally. The benefit to golf courses was a steady supply of relatively cheap

# Keeping a Keen Eye on Effluent

BY KARL DANNEBERGER



LONG-TERM USE  
OF EFFLUENT  
CAN RAISE  
ENVIRONMENTAL  
CONCERNS

water. However, with continual use of effluent water, the associated initial benefits must be monitored closely.

In some areas of the Southwest, the cost of effluent water is on the rise and approaching that of potable water in some municipalities. Also, during peak irrigation periods during the summer, shortage in effluent water supplies can occur, which can lead to potential water restrictions.

Effluent water use does come with its own environmental and agronomic concerns. Strict human health guidelines exist for effluent. However, the targeted delivery of effluent water to golf courses might not deliver agronomically desirable water. The levels of nitrate, salt and sodium often found in effluent water can vary among treatment facilities.

Additionally, long-term use of effluent can raise environmental concerns on the golf course. Although acceptable turf quality was achieved with using wastewater in a recent study from Texas (Thomas et al., 2006), nitrate levels tended to increase along with salt and sodium levels.

Delivering high-quality turf using wastewater over the long term will require continual monitoring by analyzing water test reports received from the waste-water treatment facility, soil tests, and also monitoring water quality in irrigation ponds where effluent is stored. Fertility programs will need to be adjusted to account for higher nutrient levels (primarily nitrate and phosphorus, but others too) as well as increased salt levels.

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*Karl Danneberger, Ph.D., Golfdom's science editor and a turfgrass professor from The Ohio State University, can be reached at danneberger.1@osu.edu.*





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