



Harris English prepares to hit on No. 16 at this year's Waste Management Phoenix Open. The hole, totally surrounded and enclosed by fan seating like a sports stadium, is well known as the loudest hole in golf.

TPC Scottsdale CGCS Jeff Plotts, who has been at the course for seven years, calls the environmental effort put on by the event “inspiring.”

“When you think of the amount of waste for 500,000 people coming through here, and to know that 90 percent of it is diverted away from a landfill? That’s just unreal,” he says.

The environmental effort of the Waste Management Phoenix Open goes right along with TPC Scottsdale’s origins — the course was created in 1986 in part as an environmental benefit to the area. The land the course sits on was used for years as a dumping ground. Through a partnership with the Federal Bureau of Reclamation, the PGA Tour and the

City of Scottsdale, the course was constructed as an environmentally desirable solution for reclaimed water captured from thousands of nearby acres.

“We’ve always been proactive about the environment,” Plotts says. “The entire TPC network is involved in the Audubon program, so it was great for us to have another company with that same mindset come in.”

Unique opportunity

Many know the WM Phoenix Open as a giant party that takes place around a golf tournament. No. 16, a completely enclosed par three, is one of the most unique holes on the PGA Tour, with fans treating the tournament more like an NFL game

than a Tour event. Players have embraced this shift in golf culture — some even bring souvenirs to chuck into the stands.

With this new green culture, organizers hope the tournament might take on two identities — as the biggest party on Tour, as well as the greenest event on grass.

“The Thunderbirds have a great desire to be known as the greenest professional golf tournament in the world,” Plotts says. “It’s already the largest. So if they can take the largest and also turn it into the greenest? They feel that will put them ahead of everyone by leaps and bounds, and I agree.”

Thunderbird’s Tom Altieri, tournament director for the 2013 WM Phoenix

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Open, says the partnership with Waste Management makes for a unique opportunity, with a great stage to show off the environmental process.

“We call it ‘the greenest show on grass,’ and we try to live up to that,” Altieri says. “It’s a huge part of our partnership with Waste Management. They’re one of the most environmental companies in the world.”

Plotts says since the tournament ended, all the disposable infrastructure on the golf course has been carefully sorted in order to keep it out of landfills.

“The scrim and carpeting can be used for erosion control. They can find people who can reutilize these things,” he says. “The scrim, the plywood, the wood chips... everything has to be separated and accounted for.”

Besides the lack of garbage cans and the intense sorting of materials, the

tournament also:

- ▶ Worked closely with vendors to monitor their use of water in order to increase overall conservation.

- ▶ Used greywater from the concessionaire’s kitchens in portable toilets.

- ▶ Had solar-powered compactors along the course, allowing patrons to dispose of their food waste more efficiently.

- ▶ Used compressed natural gas (CNG) trucks to transport the waste and recycled materials collected during the tournament, reducing fleet emissions.

- ▶ Featured a hospitality tent that was entirely powered by electricity generated from a portable solar power unit.

Security detail

The environmental effort at the WM Phoenix Open is indeed Herculean, but what about hosting 173,000 people on a single day? How has this tournament gotten so popular?



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“The weather helps,” laughs Altieri. “But to get over 500,000 people at a single PGA Tour event? There’s nothing like that on the PGA Tour.”

The layout of the course makes it crowd friendly, Plotts says.

“Commissioner (Deane) Beman’s vision was for a stadium course with large corridors,” Plotts says. “I don’t know if he had the vision to imagine what we have today — skyboxes and holes like 16, totally enclosed — but it was built for this. Our venue has been able to separate itself because of that.”

Plotts says the event has changed “hugely” in just his seven-year tenure at the course.

“I was in tournament golf for eight years before I came out here. I felt like it was just going to be more people, not that big of a deal,” Plotts reflects. “Until you’ve gone through one, it’s difficult to explain

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2012 Waste Management

It's on holes 17 and 18 that the crew gets its own security detail.

"Once people get that liquid courage in them, they think they want to come out and mow grass," Plotts says.

Numbers game

Plotts laughs when he thinks back to last year's Wednesday round, or lack thereof. Frozen conditions forced the cancellation of the pro-am. No golf was played. Yet 15,000 fans still came out to the course.

"Just to sit around and drink beer all day," Plotts laughs.

He wasn't always so amused by the crowd at the Waste Management, sometimes called the 'Wasted Management.' But he has since come around.

"I'd say seven years ago, my first tournament here, I wasn't interested (in the atmosphere)," Plotts says. "I'm from the South. My idea of a tourna-

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"IT'S ALREADY THE LARGEST (ATTENDED TOURNAMENT). SO IF THEY CAN TAKE THE LARGEST AND ALSO TURN IT INTO THE GREENEST?"

THEY FEEL THAT WILL PUT THEM AHEAD OF EVERYONE BY LEAPS AND BOUNDS, AND I AGREE." — JEFF PLOTTS, CGCS, TPC SCOTTSDALE

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just how big it is, how different it is."

It's not often a maintenance crew needs a police escort, but the crew at TPC Scottsdale gets one daily during the tournament. They enjoy a motorcycle police convoy to the course as well as mounted horseback police blocking the crowd at

key crossing points on the course.

Plotts tries to get the crew out by 3:30 p.m., with the hopes that the last golfers finish at 4 p.m. Early on, the crew is on holes where fans have long ago left, so there isn't much fan interaction. That changes once the crew gets near the final few holes.

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ment is the Masters.”

He now embraces the spectacle that the tournament can sometimes be considered. After all, how many tournaments can boast having a Tilted Kilt bar built alongside the 18th fairway?

“Maybe I was uptight,” Plotts says of when he first arrived at TPC Scottsdale. “I had to roll with it and understand that this is a unique event. I need to cherish being blessed enough to be involved with it. Every year I’ve learned to enjoy it more.”

However he felt about the tournament, the conditions of the course always gets rave reviews from Altieri, who plays there often.

“Jeff and his team are second to none,” Altieri says. “Every year Plotts has the course tuned up and ready for the PGA Tour players to play.”

Waste Management and the Thun-



“I don’t know if (former PGA Tour commissioner Deane Beman) had the vision to imagine what we have today — skyboxes and holes like 16, totally enclosed — but it was built for this,” Plotts says of TPC Scottsdale’s ability to handle large crowds.



derbirds hope that the tournament continues to be second to none in terms of their attendance and green effort. The plan for next year? Bigger and better, if that’s even possible.

“The Thunderbirds are a competitive group. Our 2012 tournament chair was proud to achieve the 90.7 percent diversion rate,” Altieri says. “I assure you I’ll be working hard to beat that number.” ■

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New England Turf

Good news on
bacterial wilt,
bad news on
nematodes.

By Anthony Pioppi

When Dr. Nathaniel Mitkowski came before the approximately 400 turf professionals at the 15th New England Regional Turf Foundation Conference and Show in Providence, R.I., he brought good news and no news. For many, the no news was bad news.

On the upside, according to Mitkowski, an associate professor of plant pathology at the University of Rhode Island, Syngenta's new Daconil Action ap-

pears to have preventative qualities when it comes to bacterial wilt on bentgrass.

At the opposite end of the spectrum was Mitkowski's update on the battle against nematodes. He said there are no products in the pipeline that will soon be available to combat what appears to be an ever-growing problem.

Mitkowski spoke on the second day of the four-day conference that was held Feb. 6-9 at the Rhode Island Convention Center. According to Gary Sykes, executive director of the NERTF, paid attendance was 2,656, including lawn care professionals and equipment technicians.



Show REPORT



Near left: NERTF President Christopher Cowan thanks Dave Schermerhorn of Harrell's and Fred Montgomery of Syngenta for their support of the 2012 Conference and Show.

Bottom left: The SUNY Cobleskill Team finishes second to UMass in the 2012 NERTF Turf Bowl.

"This is not a poison," Mitkowski said of Acibenzolar. "It tells the plants to turn on the defensive proteins."

J.R. James, technical manager of turf at Syngenta, said with Daconil Action, "You give the plant the chance to protect itself."

He added that Acibenzolar is used, and has been for years, to combat bacteria problems in the agriculture sector.

Mitkowski warned those who might be thinking of using Acibenzolar alone. First of all, he pointed out, it is not labeled for turf; and second, great care would have to be taken when applying it.

According to Mitkowski, even at one ounce per acre, there is the potential to harm turf. He said the Daconil formula apparently acts as a safener and prevents burning.

How effective Daconil Action is on bacterial wilt in bentgrass, specific to golf courses, is hard to say, Mitkowski said. Because research has not yet been done on that yet.

"In the greenhouses it works well at slowing it down," he said. "It will not give you complete control. This is not a fungicide. It's not bulletproof."

Still, just the fact that help might be on the way is enough to bolster the attitude of some superintendents, according to Patrick O'Brien, director of the USGA Green Section's Southeast Region. Many

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That number was up slightly from 2011, and there were 151 exhibiting companies. Sykes said two of the education sessions were expanded this year and the fourth annual Turf Bowl had 16 schools compete.

The NERTF also announced it would donate \$129,000 to three universities for 13 research projects.

It was a different mood at this year's event compared to the last few events. First, the timing of the event was much earlier than usual in response to the Golf Industry Show's late date this year. Also, the lack of snow through much of New England, Long Island and Westchester County, had superintendents wondering if mass course openings were just around the corner after a 2011 season that saw many facilities hosting golfers well into December.

Optimism about Daconil Action

In 2012, though, superintendents dealing with bacterial wilt on greens may have an effective preventative spray in Daconil Action, the Daconil Weather Stik with Acibenzolar-S-methyl added.



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East Coast

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courses in that region try to maintain bentgrass greens in hot conditions. Thus, the greens take on bacterial wilt.

“At least this year, the guys are going into the season with a little more optimism,” O’Brien said.

According to Mitkowski, heat and mowing have much to do with propagating and spreading bacterial wilt. Plants are most susceptible to the bacterium in high heat, when soil temperatures are over 90 degrees and the bentgrass roots go into decline. Mitkowski said, however, that does not always have to be the case.

Mitkowski also told his audience that the anecdotal information with regards to plant growth regulators and biostimulants and their effect on bacterial wilt is mixed.

He pointed out, though, that others have found those two inputs to only slightly exacerbate the problem, while some superintendents have said there is no change in the severity of the bacterial wilt when the PGRs and biostimulants are applied.

Slow progress on nematode front

On the other hand, the news for those inundated with nematodes is not good. Stunt counts have been at extremely high levels the past two years, partly due to the hot summers. The other factor for the increased number of courses dealing with the problem is Bayer ceasing production of Nematicur in 2007.

The threshold level for nematodes is 800 stunts per 100 cubic centimeters of soil. In the past few years Mitkowski has seen numbers regularly in the 2,000 to 3,000 range with a high of 39,000 in the scorching summer of 2010 and a peak level of 18,000 in 2011.

According to Mitkowski, the warm winters of the last two years have not impacted the nematode population increase, as some superintendents surmise. According to Mitkowski, nematodes have adapted to the colder climates. He said in the fall nematodes convert a

good portion of their liquid to carbohydrates to withstand the freeze.

Mitkowski surmised that it will be at least another five years before there is a new chemistry for the turf industry to use against nematodes. He told the Providence group that there are small trials being conducted in the South but already one of those products has proven ineffective when applied to old push-up style greens because it binds to the organic material.

Mitkowski also said he has been approached about using Dursban but that it is not labeled for nematodes and does not work on the lance variety. He also said he has been approached by superintendents looking for advice on application rates for products that are registered nematicides but not for turfgrass.

“I tell them, ‘We’re not going to have this conversation,’” he said, while reminding those in attendance that the penalty for illegally using such a product can be a year in jail and a \$10,000 fine.

The best and only way to reduce the damage inflicted by nematodes, according to Mitkowski, is through cultural practices such as raising the height of cut and miniature aeration as frequently as once a week. It’s all in an effort to encourage deeper rooting. The key, he said, is for superintendents to begin the process well before nematodes have turned greens into an all-you-can-eat buffet.

“You won’t grow roots in July. You have to think about the roots in March

and April,” he said. “Really focus on the roots. It’s the best thing you can do.”

Mitkowski said he understood that raising the height of cut at courses accustomed to very fast greens will not please members, but that it must be done to save turf.

“The quality of the golf is going to be different,” he said. “It has to be.”

Another way to combat the pest is to keep the golf course as dry as possible. Converting to firm-and-fast playing conditions will help.

“Nematodes need water,” Mitkowski said.

Mitkowski advised those in his audience who still have Nematicur to use it sparingly and to spot treat.

“Don’t hit the entire green. When it’s gone, it’s gone,” he said.

Unfortunately for superintendents who have extremely high levels of nematode activity in their greens and not a drop of Nematicur in the maintenance facility, the only way to combat the inundation may be through extreme measures.

As Mitkowski said, one course on Long Island that dates back to the late 1890s decided its only plan of action is to renovate all its greens, replacing the push-ups with those of USGA specification. While this course might be the first to implement such harsh tactics, it’s not likely to be the last. ■

Antony Pioppi is a contributing editor for Golfdom.



Hockey Hall of Famer (Boston Bruins, Colorado Avalanche) Ray Bourque signs autographs for Tom Fox (Turf Enhancement Enterprises) while others look on.