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EDUCATION NEVER ENDS

Fifteen years ago I left my newspaper job in Tulsa, OK, moved to Ohio and began my career in the turf and landscape industry. Before I had a chance to unpack, the publisher, Art Edwards, handed me a plane ticket and sent me to a conference at Purdue University in Indiana. All he said was, "Attend every session you can, talk to showgoers and make sure you visit each exhibitor and learn about his products."

Today, I'll bet I know at least 100 golf course superintendents and sports turf managers who started their education at Purdue's Midwest Turf Conference. For each state or regional conference I've attended the past decade-and-a-half, I've met hundreds more student-professionals and learned that education never ends. From Massachusetts to Mississippi, from Florida to Nebraska, from New Hampshire to Arizona, from New Jersey to Missouri, from California to Texas, the education process continues throughout their working lives (and even into retirement) for dedicated turf and landscape managers.

The important thing to remember is that it wasn't always this way. Golf course superintendents in the '30s rarely left their courses. The only time they got together, even on a local level, was when early teachers such as O.J. Noer, Burton Musser, Fred Grau and Tom Mascaro put together traveling seminars with distributors in cities across the country. If the superintendent couldn't travel, then these pioneers decided they would travel to him.

I wish that I could have attended one of the old-time traveling seminars by Noer and his team. Fred Grau says there were frequently just six or eight superintendents sitting around a table at a local restaurant. For two or three hours they would listen to Noer, Musser, and the others pour out their knowledge. Superintendents would ask specific questions and get answers on the spot.

I sense that many athletic field managers today feel like golf course superintendents did in the 1930s. They are more concerned about missing something at work than gaining something away from work. They are unable to travel more than a few miles or take more than a few hours to attend education seminars and product exhibits. They are concerned that their management won't support travel outside of their city or state for the advancement of grounds or athletic field management at their facility.

Continuing education is never a waste of money for the individual or his facility. Newly acquired knowledge enriches everyone as it spreads from the turf manager to his staff. A few choice pieces of information gathered in one or two days away from the office can save days or weeks of time in the future.

People you meet at conferences provide an entirely new perspective into common problems. Suddenly puzzles that made no sense to you before can be solved with the help of new information on products and techniques.

I never got to see Noer and Musser in action, but I have benefited greatly from the educational process they initiated. In each issue of sportsTurf I try to pass on some of the important techniques and products learned from meetings held each year across the country. But believe me, if you attend these meetings yourself you will never miss another. They are too important to you, to your staff and to your facility to miss.

Something tells me that astute managers of sports facilities know this, and will support your involvement in continuing education—if you just ask.

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FROM THE EXECUTIVE DIRECTOR

In the past several weeks I have had the opportunity to attend three outdoor industry trade shows. The first was the Midwest Sports Turf Institute (STMA) at the College of DuPage. The second was held at the College of Holy Cross (STMA and PGMS) and the third at Harper College (Midwest Park Executives).

At two of the three educational sessions held in conjunction with the event there were well-attended but the traffic through the commercial exhibits was extremely disappointing. Many exhibitors complained about the lack of interest and the small number of people visiting their areas. Several commercial firms talked about not returning next year.

What a shame! If many of these companies don’t return there won’t be an event. That definitely is a crisis looming on the horizon.

In analyzing this dilemma it appears that there is a lack of concrete effort, support, and commitment on the part of the conferees who don’t take their job or profession seriously. Once lunch is served at these events, many people jump in their cars and leave. Some consider the day free time and actually go home early at their employer’s expense. They’re not only cheating their employer, but also themselves by not sticking around to learn something.

How sad and unprofessional they are. The sports turf industry has the potential to be the largest and most prominent in the green industry. The sports turf segment of the industry has the potential to be the largest and most prominent in the green industry. The sports turf segment of the industry is struggling to be recognized on the same status as allied groups, such as golf and lawn care. True, these groups have existed longer and are settled on stronger foundations, but they were once where sports turf is today.

Could it be that these people are more interested in upgrading themselves and their profession, or are they more conscious of education and its benefits? Possibly, but I would doubt this is true in the majority of cases.

Perhaps the wrong people are attending these meetings and trade shows. Perhaps the ones who make the purchasing decisions are not the ones who are being sent by their employers. Perhaps the supervisory personnel are sending all the workers and laborers without attending themselves.

Whatever the reason, this lack of commitment, attendance, and enthusiasm is causing the support from our commercial colleagues to dwindle rapidly. I know from personal experience when I was working for a commercial supplier, that calling on schools was both difficult and confusing because each district had someone different in charge of athletic facilities. Many times the person responsible for the care and maintenance of the athletic fields was not in charge of purchasing. In some instances, the person in charge was the coach, athletic director, business manager, principal, assistant superintendent, or custodian. Rarely was he the grounds manager (sports turf manager).

Many districts purchase their equipment, materials and supplies from a local hardware store or garden center because the school is expected to support local proprietors. The price in most cases is higher than the commercial supplier and there is no follow-up service by a professionally-trained turf specialist. Technical representatives are an integral part of the sports turf industry, essential in solving problems and assisting each of us in growing better and safer sports turf.

Commercial companies and their representatives are the life blood and foundation of every industry association and organization. It is fact that no group can survive and operate solely on membership dues. In order for an association to meet expenses for salaries, utilities, postage, rent and day-to-day operations, it must raise funds from the commercial segment of the industry. It is the money support from the sale of trade show booths, advertising, and donations for drawings, lunches and hospitality rooms that bring in the funds to continue the operation of your association.

What can you do? Begin to show a serious interest in the products, equipment or materials that these vendors took the time, effort and trouble to bring to the trade show. Talk with them about your operation as they may have a product or suggestion which will make your job easier or better. Show them your appreciation and thank them for supporting your industry and organization. A few kind words or a positive attitude will go a long way towards a solidified industry. Remember, these individuals must also make a living. Don’t take them for granted.

If you are not the person who makes the purchasing decision or who schedules the maintenance at your school, park or sports facility, encourage your supervisor or purchasing agent to accompany you to the next conference and trade show. Get these people involved in your industry and in your job because it’s the only way you will get recognition and possibly that new mower or product you want.

Do it now! Don’t wait! We currently have a crisis looming on the horizon and a identity problem that won’t go away. We can’t afford not to get involved. Let’s show your support and professionalism to our commercial companies and vendors and make them feel just as vital and important as you are to our industry. For without them, there is no industry.

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The temperature hovered around 100 degrees one late July afternoon in Eastwood, KY, a suburb of Louisville. It hadn’t rained a drop in a record-setting 32 days.

Superintendent Jon Scott and six members of his crew at Valhalla Golf Club were stalking the course with soil probes checking moisture levels anywhere the bentgrass tees, greens and fairways were slightly off color. If the soil core was dry, the spot was hosed down every two hours with a combination of water and wetting agent.

Scott, his assistant Ted Willard and the crew had been putting in more than 70 hours per week for over a month. A sense of hopelessness was setting in. “As you watch the turf grow weaker,” Scott recalls, “a part of yourself also gets weaker, and it becomes very hard to get up and come to work in the morning. Yet, you do, trying to control the things you can — and ignoring those you can’t.”

Their persistence paid off, however, and in retrospect Scott looks back on his first year at Valhalla with a sense of accomplishment. “We will be feeling the effects of the drought for months to come, but the course escaped most of the severe damage other courses in the Ohio Valley suffered this summer.”

The private “golf-only” club had only been open two seasons after years of planning by the Gahm family, owners of Kitchen Kompact, a cabinet manufacturer in Louisville. They had spared no expense, in the words of Dwight Gahm, “To create a golfing enjoyable and offer variety to every golfer, no matter what his level of skill or strength. My aim primarily is to test a golfer’s accuracy by providing the richest possible mix of shot values — varied tests of precision.”

Scott had been hired by the Gahms last September to make sure their dream would be protected. The Gahms were aware that maintaining bentgrass in the transition zone was a challenge. That is why they asked Ed Etchells at Golf Turf Inc., the agronomic arm of Jack Nicklaus Golf Services, to recommend a superintendent for the course.

Allan McCurrach, the regional agronomist for Golf Turf, had worked with Scott at another Nicklaus Signature course, “The Bear” at Grand Traverse Resort in Michigan. Both Valhalla and the Bear were built by the same crew from Wadsworth Golf Course Construction.

Scott understood what Nicklaus expected for courses that carried his name. He also knew that he couldn’t let the Gahms down,
regardless of weather.

Although Scott had spent four years managing the "grow-in" at Grand Traverse, he had extensive experience with both cool- and warm-season turfgrasses. Assignments at golf courses in Florida, South Carolina, Virginia and Michigan over 16 years had taught him how heat and humidity could destroy turf.

"This past summer made me feel like I was working in the desert," he remarks. "Temperatures hung in the 90s and the humidity dropped down to 20 percent for weeks. But then, we had three inches of rain and the humidity jumped up to 90 percent. We still aren't sure what the long-term effects are going to be. I'll never forget this summer."

Scott learned golf course maintenance the hard way, by working his way up the ladder after graduating from Michigan State University with a degree in park administration. "When I graduated in 1972, there just weren't many park jobs open," he recalls. Fortunately, he had done a summer internship with the Dade County, FL, Parks Department. They were building Key Biscayne Golf Club and had an opening for a superintendent.

"I didn't know beans about golf, but by working closely with the architects (R. B. Von Hagge and Bruce Devlin), County Superintendent Maurie Ceascoigne, the irrigation contractor and the maintenance crew, I received a crash course. It was then I realized that experienced superintendents, extension turf specialists and suppliers are a great source of knowledge when you have a problem. The answers are out there if you just ask."

Scott quickly discovered that managing turf was more complicated than administering budgets or managing people. Country Club Aventura north of Miami was building a second 18 and needed an assistant superintendent with construction experience. It was a break for Scott. "Bob Ulrey, the director of maintenance, was a great agronomist and patient teacher. He, and Superintendent Freddy Michaels, helped me with turf management while I helped them supervise the crew. I can't imagine anyone getting a better education in warm-season turfgrasses than they gave me," Scott reflects.

After Aventura was completed, Scott moved up the coast to Montclair Country Club in Dumfries, VA, to help rebuild nine holes that had been wiped out in a hurricane. "It was a whole new ballgame in the transition zone," states Scott. "The greens were bentgrass and the irrigation systems were electric instead of hydraulic. Systemic fungicides for *Pythium* hadn't been developed yet either. It was back to school again." Shortly after he moved to Montclair, it became Club Corporation of America's first eastern venture. "CCA taught me the business of golf course management. Jim Faubion, CCA's top agronomist was a major force in my maturation as a golf course superintendent."

After three years with Club Corporation, Scott moved over to one of the biggest management systems in the world, the U.S. Air Force, as golf course superintendent at Andrews Air Force Base outside of Washington, DC. "My first summer there I faced the worst drought the area had seen in years," Scott adds. He came very close to losing the course when water supplies started running out. "We had to stop watering the ryegrass fairways in August. We had just cut off the tees and had only a week's supply of water for the greens when the rains finally came."

After two years of dealing with the Air Force's complex procurement system and five years of managing turf in the transition zone, Scott returned to deep South, this time at Sea Pines in Hilton Head, SC. While there, Scott heard about Golf Turf Inc. and got to know Ed Etchells who was overseeing construction and maintenance of Kiawah Island Golf Resort in Charleston, a course designed by Nicklaus. Little did he realize then that Etchells would later play a major role in his career.

All of Scott's experiences have taught him one basic thing, you can build the best golf course in the world, but if you don't make an equal commitment to maintenance after construction, a lot of that money is wasted. "The Gahms are firm believers in the game of golf and fine golf courses," says Scott. "When the drought hit, they gave Ted and me everything we needed to maintain optimum playing conditions."

Those conditions at Valhalla include highly groomed bentgrass fairways, greens and...
Valhalla

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tees placed strategically in between a wind-
ing tributary of the Ohio River and native
forest. Nicklaus incorporated mounded
roughs, elevated and undulating greens,
island fairways and waterfalls into the 7,114
yard course (from the Pro tees). The front
nine traverses a flood plain and the back
nine meanders through a rolling, wooded
ridge.
The mounds are distributed throughout
the stadium-style course to serve the gallery
of a future PGA Tour event. "We haven't
received a slope rating yet," says Scott, "but
were told the course is the toughest in
Louisville."

Three different levels of rough frame the
contoured fairways of the front nine. A mix-
ture of Kentucky bluegrass, perennial
ryegrass and fine fescue, the roughs range
from 1½ inch to 16 inches tall. The effect
of the tall rough is to simulate a Scottish
look, frame the hole and create a color con-
trast between the short rough and the bent
fairways. "The tall rough is mowed with a
Bushhog once in the spring and again in
the fall," says Scott. "It definitely helps save
manhours, fertilizer and pesticide appli-
cations."
The fairways and greens are surrounded
by an intermediate rough cut at 1½ inch
inside a 20-yard-wide strip of two-inch-tall
rough. The golfer who hits the fairway is
rewarded with dense bentgrass mowed at
7/16 inch and a clear shot at the green.
Members hitting from the pro tee on the
spectacular seventh hole must not only drive
over the river, they also have a 300-yard-
long rock quarry to contend with.
The back nine winds through woods on
a rolling mountain ridge. Instead of tall rough,
the fairways are lined with mature shagbark
hickory, sycamore, oaks, maples and cedar.
Valhalla's finishing hole is a dramatic end-
ing for a challenging round of golf. Golfers
tee off from a hillside nearly 50 feet above
the fairway which is bordered on one side
by a series of mounds and by a stair-step
waterfall on the right. The final target is a
three-tiered green above the waterfall.

The Gahms and Nicklaus made a deci-
sion to plant bentgrass on greens, tees, and
fairways, something not previously success-
ful in the Louisville area. Penncross was
selected for the greens and tees. At the time
there was a severe shortage of certified
Penncross so the fairways were sown with
Pennway. A policy of not allowing carts on
the fairways was established and a caddy
program was initiated. Lightweight mowing
with triplex greensmowers with grass-
catchers rounded out the program for reduc-
ing stress on the bent.

When Scott arrived last fall, the course
had already gone through one drought and
the young bentgrass was struggling. For-
tunately a mild fall and winter gave Scott
time to get the turf back on track.

He did this largely by launching a grow-
type nutritional program on the greens
and tees using regular applications of IBDU
supplemented with alternating foliar sprays
of Plant Marvel's 28-8-18 and 13-0-44 and
Peters' 9-45-15. Scott had used the 9-45-
15 with monoammonium phosphate at
Grand Traverse to stimulate root growth in
greens suffering from black layer. Dr. Paul
Reike at Michigan State had told Scott that
phosphorus is frequently deficient in sand
greens and needs to be replaced. A recom-
mendation by Tom Lubin, professor of
chemistry at Cypress College in Cypress,
CA, to apply .25 pounds of phosphorus per
application on a 14-day schedule produced
new roots within days at both courses.

Between September 15 and December
15 the Valhalla crew applied almost five
pounds of nitrogen, four pounds of phos-
phorus and four pounds of potassium. "By
balancing the N, P and K," says Scott, "the
greens gained density without producing
a great deal of thatch, and still hardened
off for the winter."
The fairways received almost as much
with three pounds of nitrogen, two pounds
of phosphorus and five pounds of potas-
sium furnished primarily by Par-Ex blends
using IBDU and potassium nitrate. By the
end of the growing season the turf had reco-
vered almost completely.

"I think that during the drought and the
severe temperatures this summer the fertilization plan has been a major factor in maintaining quality turf," boasts Scott. "The IBDU has been breaking down slowly due to the hardness of the irrigation water and lack of rain, allowing us to keep color without producing excessive growth. Urea would have broken down much faster with the excessive microbiological activity caused by high temperatures. High potassium fertilization has also made the bent more drought and temperature tolerant while giving it good resistance to disease."

The fertilization program is flexible based upon factors such as color, clipping yield, root growth and temperature. Scott skipped one of three fertilizer applications this summer. The greens and tees also receive at least six ounces of iron (Ferromec) per month during the growing season for color and hardness.

The crew spent the winter thinning trees and clearing underbrush to improve air circulation around some of the holes. "There is no doubt in my mind," says Scott, "that the biggest single problem with bentgrass greens is air circulation, and it becomes very critical in the South where heat and humidity gang up on poorly ventilated turf."

When the trees leafed out in the spring, another problem became apparent. Some of the mature trees were dying. "You expect to lose some trees from construction injury the first four to five years, but we have lost more than the average new course," said Scott. "Many trees won't make it without natural rainfall and we have had little of that since March." The Valhalla crew has been watering as many trees as possible with a 300 gallon trailer tank and a root injector.

The bentgrass also required special treatment this past summer. "Irrigation systems in this part of the country are designed to supplement rainfall, not replace it," Scott points out. "Some older courses were losing a lot of turf, especially Poa annua, because their irrigation systems couldn't put enough water down quickly to cool the turf. Since Valhalla is new and we have an excellent irrigation system, we've been able to guard the bent from too much heat stress.
Valhalla
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states. "Blaming the weather for turf damage after the fact just wasn't acceptable." To have more control Scott wanted enough people to baby the turf through the rough period. That meant more crew members and lots of overtime. The Gahms gave Scott the go-ahead.

"After pushing the bentgrass to get it established, it had built up a layer of thatch," remarked Scott. The thatch, heavy clay and elevation changes in the fairways led to the development of dry spots.

Scott didn't want to overirrigate the fairways to correct the problem since he was trying to keep leaf wetness to a minimum. He chose instead to treat the dry spots by drenching them with water and wetting agent. From 1 p.m. to 6 p.m. a crew hosed down dry spots every two hours until core samples showed the soil was wet. On the end of the hoses he attached Niad drenchers. Water flowing through the drenchers dissolves tablets of wetting agent in a proportioner thus reducing the surface tension of the water and encouraging infiltrability. "It's such a low rate of wetting agent you can re-treat spots without danger."

Near the end of the drought the reservoir contained only enough water for two more weeks of irrigation and they could no longer pump water out of the stream running through the course. Drawing city water caused a pressure drop in the surrounding area limiting withdrawals to between midnight and 6 a.m. By using the evapotranspiration budgeting feature on the Maxi, Scott had already leaned back the system to 350,000 gallons per day. Even at this rate, had the rains not come when they did, it would have cost more than $8,000 per month to buy the water.

Valhalla also follows a preventative fungicide program for diseases. "Pat Sanders (turfgrass pathologist at Pennsylvania State University) recommended tank mixing three fungicides instead of switching from one fungicide to another to suppress Pythium fungal pathogens in samples of turf. If the levels are low, a treatment can be skipped. When they jump, the superintendent can treat quickly.

Scott believes the drought actually reduced his insect and early weed problems. The bensulide he applied for crabgrass to the greens, tees and fairways lasted nearly three months, as did the Oftanol he used for grub control. However, August brought out the pests in force and this called for repeat applications.

He split the bensulide (Pre-San) application in the spring for the greens and tees, two treatments with five ounces, and a five ounce repeat in August. The fairways received a ten ounce rate in the spring and another five ounces in August. He treated the roughs with Team.

Nutsedge has him worried as the course ages, Scott admits. "Cool-season grasses are injured by nutsedge controls. We need because of the drought," he concludes. "The demands of dealing with sophisticated irrigation systems, highly structured pesticide applications requiring almost apothecary accuracy, increasingly complex personnel problems, and the goal of near-perfect turf quality are consuming more and more energy from the superintendent."

Scott believes more responsibility and higher salaries need to be given to assistant superintendents to help lighten the load. He also has a high regard for the agronomic support from Golf Turf Inc. "They work with me, not against me," he adds. "You can't do it alone. You have to use every available resource to stay current. And, of course you have to have the support of the club management and a budget that allows you to keep equipment and chemicals up-to-date. With the right tools and support, we can handle droughts or any other problem in the golf industry. That's our job."