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Stewart Receives 2014 President's Award for Environmental Stewardship

Provided by the GCSAA



Roger Stewart, certified golf course superintendent (CGCS) at TPC Twin Cities in St. Paul, Minn., received the 2014 President's Award for Environmental Stewardship by the board of directors of the Golf Course Superintendents Association of America (GCSAA) on Wednesday, Feb. 5, during the Opening Session at the 2014 Golf Industry Show in Orlando (Feb. 1-6).

A 38-year member of GCSAA, Stewart has accumulated an impressive array of environmental accomplishments at each stop along a nearly four-decade career as a golf course superintendent. Since joining the TPC network of courses in 1996, he has served as a leader and a resource on environmental matters across all 33 TPC courses, and has been equally involved in issues on the local level through leadership in

numerous superintendent chapters.

“GCSAA members such as Roger Stewart set a shining example for all superintendents through the positive environmental stewardship he has displayed during his career,” says GCSAA President Patrick R. Finlen, CGCS. “His openness and willingness to share what he has learned with others has been a benefit to our entire industry, and we’re pleased to honor him for his many accomplishments.”

Stewart’s first stop in the TPC system was as the grow-in super-

intendent at TPC Jasna Polana in Princeton, N.J. He worked diligently throughout the construction process to protect the water sources and native wildlife habitat that surround the environmentally sensitive site. Under his direction, Jasna Polana was certified as both an Audubon Cooperative Sanctuary by Audubon International and a River Friendly Golf Course through the Stony Brook Millstone Watershed Association.

After moving to TPC Twin Cities in 2008, Stewart continued his stewardship efforts. He recertified the property as an Audubon Coop-



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erative Sanctuary. He oversaw work on surface water areas that included stream bank stabilization, the enhancement of wildlife habitat areas and a naturalized planting project. Stewart also focused on the expansion of low-maintenance areas, and the reduction of irrigation water use, and TPC Twin Cities has regularly ranked among the leaders in low energy use among golf courses in the greater Minneapolis area.

The GCSAA President's Award for Environmental Stewardship was established in 1991 to recognize "an exceptional environmental contribution to the game of golf; a contribution that further exemplifies the golf course superintendent's image as a steward of the land." For a full list of past winners, visit www.gcsaa.org/community/awards.

Right: Roger Stewart CGCS and winner of the GCSAA President's Award for Environmental Stewardship



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At the Northern Green Expo
January 14, 2014***

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Season's Greetings

A Look Back: 2014 Horticulture

Anoka Technical College Horticulture has had an exciting year with several highlights...

January saw the Northern Green Expo. Students helped install our Anoka Tech booth. They laid a 10 X 20 foot paver patio, Strauss wall column (thanks, Borgert!) with a granite column cap/ fire rock, and a fire on water fountain that wowed the crowds! Many of the students donated their time for experience of practicing the innovative techniques.

Early spring found the Horticulture Club teaching Horticulture to 5th grade students at Franklin Elementary in Anoka. The weather was cold outside but the students were thrilled to plant herbs to take home! The Horticulture Club also followed up with Twin Rivers Nursing Home in Anoka and planted some annuals into the raised beds they had donated in December.

Internships sent everyone out for the spring and summer. Once again, the turf students were coast to coast (Vermont to California). For the first time in many years, the Horticulture department sold plants that the student's raised. Although it was small, nearly \$500 was raised. Shortly after the plant sale we graduation. The department had 6 AAS in Golf Course Grounds Management and 4 AAS in Landscape Technology graduate in May.

This summer brought the news that the 60/120 waiver was approved. Our program was one of the last to be reviewed. The approval means that we do not have to decrease any content delivered to our students. Other good news over the summer was the approval of the articulation agreement with University of Wisconsin- River Falls. The articulation gives transferring students about a years worth of credit plus electives.

This fall saw a small change in the structure of the program. We started all Golf Course students October 6 (not including the fall internship). Landscape students started the week before Labor Day but did have a late start in both Plant Pest I and Woody Plants I. It was very quiet until the return of the Golf Course students! Currently we have 18/3/1 Golf Course students (AAS/Diploma/Certificate) and 11/12/7 Landscape students plus 2 full time PSEO students.



This fall has generated a crazy amount of energy and excitement.

Parade: Horticulture faculty and students participated in producing the ATC float displaying 2 1376 pound pumpkins (squash).

Horticulture Club participated in the Stillwater Harvest Fest by assisting the St. Croix Growers Association with the weighing of the big pumpkins.

Coursework at ATC:

Marlin and his students have scalped the green outside, top dressed it and cut a cup. Equipment that has not been run in 5 years is working and getting used along with the new greens mower that Toro donated last year. The indoor green is replanted and the new lights are showing promise for sustaining growth.

The second phase to the courtyard is underway. Students have installed two more patios and some seating within the walls. Edging, mulch and plant material will also be installed.

Irrigation class has installed irrigation just outside the department so plants can finally grow through the summer without dying.

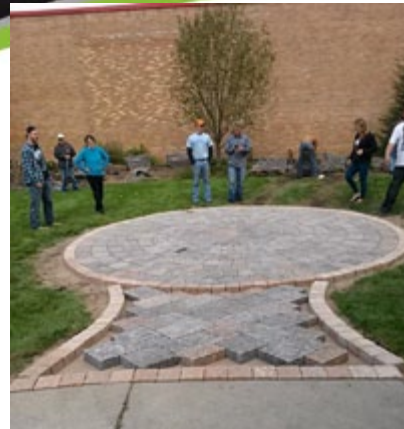
All of the students have commented on how beneficial the hands on learning has been!

Horticulture Club installed a landscape for the Conexus Energy Solar Garden in Ramsey as a way to promote good will because they are strong supporters of ATC through the Foundation.

The day after Advisory Board, ATC Hort will host an Industry Day in the Department with seminars, job fair, and lunch by the Hort Club. We are looking forward to this new launch of internship/ SOE.

We are also looking forward to many students volunteering at the Northern Green Expo in paid positions from MNLA.

And that wraps up a year in the life of ATC Hort...



2014 Advanced Agriculture Median Golf and



Agonomic Forum and Country Club



Member Driven Research: Using growing degree days to schedule paclobutrazol applications on Kentucky bluegrass fairways

Sam Bauer, Matt Cavanaugh, Mario Gagliardi, and Dr. Brian Horgan
University of Minnesota

Plant growth regulator (PGR) use on golf courses has increased dramatically over the last two decades. In that time, turfgrass managers and researchers have constantly been striving to increase both the efficiency of PGR uptake and consistency of turfgrass response. Previously, calendar-based PGR applications have been the standard in the industry due to convenience and ease of scheduling. As we begin to learn more about PGR uptake and metabolism, it has become apparent that calendar-based application scheduling results in inconsistent turfgrass responses because air temperatures impact metabolism of PGRs. Superintendents noticing a lack of PGR effectiveness in the summer months can attribute this to a more rapid breakdown of PGR compounds within the plant.

Research at the University of Illinois demonstrated the increase in PGR metabolism under high temperatures by analyzing trinexapac-ethyl (TE) and paclobutrazol (PAC) residues in both creeping bentgrass and Kentucky bluegrass at different times of the year. Metabolism of TE increased almost two-fold in both species when comparing temperatures of 64 degrees F to 86 degrees Fahrenheit. Applications of PAC resulted