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## PGMS Partners In Professionalism

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As you all know, these are extraordinary times for all of us as grounds managers. We’re all rapidly becoming acquainted with the difficult situation that we as PGMS members are facing during this COVID-19 outbreak. This situation is requiring us during these difficult times to activate our leadership skills, specifically empathy, compassion, and courage, which are critical in helping us to lead our staff during uncertain times. As many of us adapt to this new normal, we encourage all PGMS members to share how they are acclimating and responding to this emergency. Many members work for institutions that are operating with limited staff and resources and yet they are essential to the operation of their institutions.

Personally, I am keeping up to date with the latest news concerning the virus and how we should combat the threat. Like many other grounds managers and directors, we are reviewing the possibility of shift work; keeping a social distance from each other; we don’t shake hands; we wash our hands thoroughly; keep our coffee pot areas sanitized; and above all, we keep our staff informed of the latest news from the university in terms of what we should do as essential personnel. In addition, I’ve asked each supervisor to monitor the health and well-being of each employee. If one appears to be sick with cold-like symptoms, we are telling the employee to go home. Right now, we encourage each employee to remember and to practice each one of the latest health guidelines. I’m sure as we monitor what others are doing now, we encourage each employee to remember and to practice each one of the latest health guidelines. I’m sure as we monitor what others are doing now.

PGMS® understands the impacts that COVID-19 has not only on our professional lives, but our personal lives. PGMS® asks that members willing to share how they are combatting operational disruptions to contact info@pgms.org.

The Society will continue to gather resources to assist grounds professionals during this global pandemic. You can see some of these resources on page 21 and additional resources can be found at https://pgms.org/2020/03/19/pgms-covid-19-information/.
2019 PGMS SCHOLARSHIP RECIPIENTS

PGMS member Reuben Cole wanted to continue education for horticulture students. He did that by leaving funds to PGMS for a scholarship program. Each year the PGMS scholarship committee awards monetary scholarships to students in horticulture or related fields. Applicants must be at least in their first year of college or may be recently graduated from high school. The top recipient will also have the opportunity to attend the School of Grounds Management Annual Conference & GIE+EXPO in Louisville in the fall. PGMS will pay for the scholarship recipient’s conference registration and a travel allowance.

“The scholarship recognizes excellent student work in the classroom and in the field. This year the winners were able to distinguish themselves in an extremely strong pool of candidates. These are the potential future leaders in our industry and it is an honor and privilege for PGMS to be able to financially assist them in their educational pursuits,” said Scholarship Committee Chairperson Jimmy Hogan, CGM. PGMS wishes the recipients well in the future and hopes the scholarship will open doors to additional opportunities in their pursuit of being a green industry professional.

ERIKA STUHLSATZ
Horticulture
$3,000

ERIKA STUHLSATZ
Horticulture major at Kansas State University. Her career goal is to design and make recommendations for landscapes while promoting sustainable landscapes.

EMMA WILLIAMS
Landscape Horticulture
$3,000

EMMA WILLIAMS
Landscape Horticulture major at Kansas State University. Her goal is to become a Horticulture Extension Agent.

ALEX BACH
Horticulture/ Turfgrass Management
$2,000

ALEX BACH
A Turfgrass Science/ Horticulture major at Kansas State University. His career goal is to educate and improve methods of water sustainability.

ZACHARY ROSENKRANS
Horticulture
$1,000

ZACHARY ROSENKRANS
Zachary attends Kansas State University where he is a Horticulture major. He plans to become a Landscape Designer.

EMMA MORRIS
Environmental Horticulture
$1,000

EMMA MORRIS
Emma attends University of Maryland College Park where she is studying Environmental Horticulture and plans to become a Horticulturalist.

PGMS® School of Grounds Management 2020 Summer Conference
July 14 - 15
Registration Opening Spring 2020
Mount Vernon | U.S. Botanic Gardens
American University
Smithsonian Garden Tour | U.S. Capitol Grounds
Thursday, July 16 – Optional DC Branch Field Day (separate registration)

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2019 Green Star Awards® Grand Winner

UNIVERSITY OF NEVADA - RENO UNIVERSITY & COLLEGE GROUNDS - MID-SIZE

The University of Nevada, Reno was founded in 1874 as Nevada’s first institution of higher education. Today, the University delivers on its land-grant mission of access to education and knowledge by investing in the academics, facilities, engagement, support and vibrant campus life that promote our diverse students’ cognitive growth and academic achievement – all while remaining one of the best values in American higher education.

Through generous funding from Nevada Donor Network, this wellness garden was created to commemorate organ donors who gave the ultimate gift. Once a hidden enclave of overgrown shrubs between a rock retaining wall and the Pennington Medical Education building, is now transformed into a functional sitting and viewing area complete with curvilinear concrete aggregate seating and 3-tiered water feature. Complementing the theme of wellness and healing, this area is situated in the medical center of campus, most of the plant materials where selected for their traditional healing and medicinal properties. Plants such as yarrow used for treating external wounds on the skin and relieving toothaches when chewed, and Lemon Balm that improves symptoms of Alzheimer's Disease, has anti-diabetic effects, and can be used to naturally treat eczema, acne and minor wounds.

Georgiana “George” Trexler served 42 years as one of the University of Nevada, Reno’s most respected administrative assistants. She was known through the campus for her calm and friendly manner, and her ability to mentor other, less experienced colleagues. As a tribute to her love for impeccable, bright clothing, especially pinks and purples, this garden contains Weeping Cherry Trees, flowering Pink Almond, Mexican primrose, Salwa, pink hyacinth, purple Allium and pink mountain rock.

A week before spring commencement, the Orr ditch company fills a segment of ditch along the south end of campus which supplies the water for Lake Manzanita. Grounds workers clean out any debris, leaves, fallen limbs, and trash in preparation to receive water. As the water begins to flow, debris upstream flows through this segment of the ditch requiring our services to clear the grates and allow the water to flow downstream to the next users. The water flows for 120 days but is managed and cleaned regularly throughout the year. Tents, mattresses, and even shopping carts make their way down stream from homeless camps upstream. A backhoe and dump truck are required to lift the heavy objects while a working crew of four uses shovels and rakes to keep the drain grate cleared.

AT WORK

From March until October staff is increased with student workers to assist with the mowing operations and other maintenance care through the growing season. It takes up to 3 days to mow, edge, trim and blow the lawns.

SUSTAINABILITY

Electric tools and equipment are becoming a big deal in the landscape industry. No combustible fossil fuels or oils are required to operate them and the potential for hazardous spills is eliminated. In addition, they can provide quieter noise output. In an effort to protect the environment, the grounds department has made great changes towards purchasing electric equipment and tools such as push mowers, edgers, trimmers, chainsaws, blowers and carts. In the past, the older gas equipment would be upgraded to the 32 volt battery equipment. Now, with advancements in technology, the upgrades are available in 60 volt battery operated equipment giving us greater output and increased battery-life in the commercial industry. It is the desire that our next electrical equipment purchase will be a zero-turn mower to add to our current collection.

MARTY SILLITO, MLA, ASLA, ISA
Grounds & Landscape Manager
OKLAHOMA STATE UNIVERSITY UNIVERSITY & COLLEGE GROUNDS - LARGE

Oklahoma State University is known for its world class education, cowboy family, Neo-Georgian Architecture (student union as an example), beautiful campus grounds, and America’s brightest orange. Founded on Dec. 25, 1890 as Oklahoma Agricultural and Mechanical College, OSU’s land-grant mission is to make a college education more accessible.

An aerial perspective in the heart of campus shows the beautifully manicured grand lawn in association to the library, formal gardens and student union. OSU is home to over 23,000 students.

The Price Family Garden honors moms and is located outside the Student Union Atherton Hotel. In addition to a raised planter bed and fountain, you can find organically grown herbs and vegetables harvested and used in the Rancher’s Club steakhouse.

The 2019 Green Star Awards® Grand Winner

Our urban forester, forestry intern and maintenance staff coordinate a tree planting celebration with the University President Burns Hargis for Arbor Day and Tree Campus USA.

One of the most compelling displays on the grand lawn was 6,900 flags placed on Veteran’s Day representing military service members who gave their life for our Nation’s defense. Landscape Services coordinates mowing and irrigation scheduling around the exhibition.

Some 80,000 alumni and fans attend America’s Greatest homecoming celebration on the OSU campus each fall. We are thrilled to show off our beautiful campus grounds. None-the-less, additional budgets have been implemented to cover costs of litter cleanup, and any turf or seasonal color damage repairs.

Some 800 plus cubic yards of grounds and greenhouse waste are composted each year. Dissolvable cornstarch bags are used for leaf collection. Compost is then reused in new landscape plantings and as mulch.

Staff taking the topiaries in for the winter where the topiaries will be nice and warm in our greenhouses. They won’t return to the landscape until early May.

Steve Dobbs
Facilities Management Landscape Services Director

2019 Green Star Awards® Grand Winner

Steve Dobbs
Facilities Management Landscape Services Director
PGMS® New Members

New Members since January 1, 2020

Jason Allen
City of La Vista
Alex Bach
Kansas State University
Nicole Bagdadlian
Oregon State University
T. J. Brewer
Paul Brown Stadium
Jeff Calentine
City of La Vista
Andrew Carlisle
Fay School
Matt Daggett
Penn State Hershey Medical Center
Christopher Anthony Dietz
University of Pittsburgh
Dustin Driver
University of North Carolina School of the Arts
Taylor Duke
Bartlett Tree Experts
Mark Davidson Elingburg
Kiawah Island Golf Resort
Tyler Ettinger
Pokagon Band of Potawatomi
Carles W. Farley
University of Texas at Austin
Lyle Feilmeier
Bartlett Tree Experts
Andy Fiegel
University of Texas at Austin
Rob George
City of La Vista
Claudia Giacone
Kansas State University
Matt Golson
Paul Brown Stadium
Glenn Griffin
University of Texas at Austin

Dusty Hafer
The Biltmore Estate
Eric Harshman
Berea College
Travis Hohlebin
Paul Brown Stadium
Jason Holloway
Pokagon Band of Potawatomi
Tyler Horn
Gloucester County Public Schools
Kevin Huff
University of North Carolina School of the Arts
Allan Jolicoeur
Concord Hospital
Mike Kerton
Landscape Concepts, Inc.
Michael Koeritzer
Ohio State University
Johnny Lee
University of Texas at Austin
Maria Lopez
Rice University
Sterling Malcolmson
Bartlett Tree Experts
Tracie McClain
Huntsville International Airport
Carson Melton
Josh Meyer
Tudor Place
Emma Morris
University of Maryland College Park
Erin Morris
University of Texas at Austin
Jason Mull
The Biltmore Estate
Thomas F Paul II
University of Pittsburgh
Brett Robinson
Kansas State University
Jordan Robinson
Kansas State University
Zachary Rosenkrans
Kansas State University
Collision Stewart
Paul Brown Stadium
Erika Stuhlsatz
Kansas State University
Stephen Tews
Spider Mower USA
Keith A Thompson
Innsbrook Corporation
Jeff Thornburg
City of La Vista
Ryan Travis
Tudor Place
Michael Welsh
University of Delaware
Jared Whitaker
Planet Turf
Emma Williams
Kansas State University
Peter Williams
The F. A. Bartlett Tree Expert Co.

CONGRATULATIONS TO OUR NEW CERTIFIED GROUNDS MANAGERS

The Professional Grounds Management Society (PGMS) has announced that William Douglas, CGM has become the 182nd grounds management professional to successfully complete its Certified Grounds Manager (CGM®) program. Douglas currently works at the City of Alexandria Parks and Recreation in Alexandria, VA. Also joining the ranks of Certified Grounds Managers is Eric Andrews, CGM #183. Andrews is the Grounds Supervisor for Bucks County Community College in Newtown, PA.

William Douglas
CGM #182

Douglas shared why he wanted to become a CGM, “Professional growth and being able to network with others within PGMS were my main reasons for wanting to become a CGM. Being recognized as the 182th CGM adds value to my career within the greens industry.”

Read the full interview with Douglas at https://pgms.org/2020/02/13/pgms-announces-william-douglas-as-cgm-182/.

Eric Andrews
CGM #183

Andrews shared this advice for aspiring CGMs, “Just take the time to do it. What you are able to learn from the process will make you a better professional and Grounds Manager. The skills and practices that you review will make your knowledge and understanding of the Green Industry become clear and benefit you throughout your professional career.”

Read the full interview with Andrews at https://pgms.org/2020/02/13/pgms-announces-eric-andrews-as-cgm-183/.

CONGRATULATIONS TO OUR NEW CERTIFIED GROUNDS TECHNICIANS

Gregory Meyer
CGT 195
Masonic Homes Kentucky
Louisville, Kentucky

Jacob M. Cody
CGT 196
Hawasli Cherokee Casino and Resort
Whittier, North Carolina

R. Michael Tinkham
CGT 197
Hawasli Cherokee Casino and Resort
Whittier, North Carolina

Stephen Moore
CGT 198
Hawasli Cherokee Casino and Resort
Whittier, North Carolina
Summer Conference Tours

American University
Host to the 2020 PGMS® School of Grounds Management Summer Conference, attendees will be treated to multiple tours of campus, featuring behind-the-scenes insights with landscape architects, arboretum manager, and landscape managers. Located in Washington, D.C., this private research university spans 90 acres and has been recognized with multiple awards, including the PGMS® Green Star Grand Award, the Perennial Plant Association award, and was ranked #2 greenest school by the Sierra Club 2014.

Capitol Grounds
Explore Fredrick Law Olmsted’s landscape design for the nation’s capital. Led by experts from the Architect of the Capitol’s Capitol Grounds and Arboretum, the tour will include highlights of the historic landscape and infrastructure across Capitol Hill, including more than 4,000 trees that comprise the campus’ urban forest. Learn about the historic and modern horticultural approaches to managing the culturally significant landscape while walking the perimeter of the U.S. Capitol Building. Explore the fifty-eight acres of Capitol Square, including more than one-hundred varieties of trees and shrubs many with historic, memorial, or commemorative associations.

Smithsonian Botanic Gardens
Established in 1820, the United States Botanic Garden (USBG) is the oldest continuously operating public Garden in the United States. The Garden educates visitors about the importance and diversity of plants and their aesthetic, cultural, economic, therapeutic, and ecological significance. As part of its mission to demonstrate and promote sustainable practices, the USBG recently redesigned the gardens around Bartholdi Fountain and the new landscape received SITES Gold certification. The USBG includes approximately seven acres of outdoor gardens and a 35,000 sq. ft. Conservatory southwest of the U.S. Capitol, and is accredited by the American Alliance of Museums and Botanic Gardens Conservation International.

Smithsonian Grounds/Gardens
Smithsonian Gardens enriches the Smithsonian experience through exceptional gardens, horticultural exhibits, collections and education. Established in 1972 to maintain the museum grounds, Smithsonian Gardens extends the museum experience in a public garden setting, inspiring visitors with innovative displays and educating them about horticulture, plants, the natural environment and artistic design. In addition to maintaining more than 160 acres of gardens, landscapes and grounds, Smithsonian Gardens operates a 64,000-square-foot off-site greenhouse facility where thousands of annual and perennial plants for the Smithsonian gardens are grown. The many gardens that surround the Smithsonian museums along the National Mall are outdoor museums designed to complement the museums they border and to enhance the overall museum experience of learning, appreciation and enjoyment.

Mount Vernon
Dean Norton, the Director of Horticulture and his staff will provide a personalized tour and discuss the details of what goes into maintaining the historic gardens and landscape at Mt. Vernon. You will have an opportunity to view George and Martha Washington’s four (4) distinct gardens: Upper, Lower, Fruit and Nursery, and Botanical. The tour will also highlight the East porch of Washington’s Mansion, which provides a panoramic view of the Potomac River. I am sure you will be as inspired as George Washington while you stroll the gardens and let your imagination take you back in history.
Robotic Lawn Mowers: First ANSI/OPEI Standard Officially Publishes on Jan. 31

Alexandria, Va. – Manufacturers and start-ups will now be able to design robotic, battery-powered and electrical lawn mowers to the industry standard, with the publication today of the first-ever standard for this equipment by the American National Standards Institute (ANSI) and Outdoor Power Equipment Institute (OPEI).

Publication of the robotic lawn mower standard has been highly anticipated by the outdoor power equipment industry. The global market for robotic lawn mowers is predicted to grow by nearly 22% by 2025 and the market is estimated to be worth $1,400.62 million by 2025, according to a study last year by Grand View Research.

“Artificial intelligence, connected technologies and other innovations are changing all industries – including the outdoor power equipment industry. Consumers and commercial users are getting more comfortable with the idea of using tech, such as robotic mowers,” said Kris Kiser, President and CEO of OPEI. “Consumers today still want beautiful and useful yards they can enjoy and spend time in, but they also want to have smart yard maintenance that can be easily managed with an app.”

Kiser added, “What is available now for homeowners and commercial users should expand dramatically over the next few years, thanks to the publication of the standard. We expect to see more competition in this product category as manufacturers design equipment to meet the industry standard. It’s an exciting time to be in the outdoor power equipment industry.”

The ANSI/OPEI robotic mower standard is “ANSI/OPEI 60335-2-107-2020 (Standard) for Outdoor Power Equipment - Household and similar electrical appliances - Safety - Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers (national adoption with modifications of IEC 60335-2-107).” The standard was approved on September 5, 2019 and will be sold through the ANSI website at: webstore.ansi.org.

The standard was developed through a public input process that brings together consumers, manufacturers and commercial equipment users. OPEI is a recognized Standards Development Organization for the American National Standards Institute (ANSI) and active internationally through the International Organization for Standardization (ISO), and the International Electrotechnical Commission (IEC). ANSI is the primary organization for fostering the development of technology standards in the United States. ANSI works with industry groups and is the U.S. member of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

About OPEI
The Outdoor Power Equipment Institute (OPEI) is an international trade association representing power equipment, small engine, utility vehicle, golf car and personal transportation vehicle manufacturers and suppliers. OPEI is the advocacy voice of the industry, and a recognized Standards Development Organization for the American National Standards Institute (ANSI) and active internationally through the International Organization for Standardization (ISO), and the International Electrotechnical Commission (IEC) in the development of safety and performance standards.

Me? Obsessed with trees? Yes. Yes, I am.

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The Pawpaw tree, Asmina triloba, has a long tradition as being a part of the natural as well as cultivated landscape. It has a hardiness for zones 5 to 9 and is a native plant found in Ohio, most of the Eastern United States below the New England states, and into Florida. As early as 1806 it was recorded "the Lewis and Clark expedition was 150 miles from settlements. The expedition had "run entirely out of provisions and trade goods, it had no manufactured goods... There were plenty of ripe plums, which the men called 'pawpaw's'. Gathering a few bushels was the work of a few minutes only. The men told the captains they could 'live very well on the pawpaw's.'" (Ohio Pawpaw Growers Association, 2002).

Over the last 10-12 years I have had the pleasure to observe the success or failure of Pawpaw installations in three different venues; a rain garden, a bio swale, and a traditional landscape understory planting. I am advocate of the use of the Pawpaw as a landscape plant in situations consistent with its growth characteristics and recommend it to grounds managers as an underutilized plant. Ten years ago, I had the opportunity to install a "rain garden" for a client in which I included Pawpaw trees. Reference an article I authored in April 2010 in the Arboiris News, International Society of Arboriculture, and a similar article in May 2010, in The Buckeye, Ohio Nursery and Landscape Association - Rain Gardens, The Green Wave. The preparation for the planting bed was prescribed for rain garden/wet meadow plants. Technically, it was not the best soil conditioning recommended for the Pawpaw installation and I admit to varying from the architect's specs to include the Pawpaw. The Pawpaw's on this site were transplanted into the rain garden as a single stem landscape tree. Single stem, trained to one trunk, being the usual form for ornamental or horticultural use. Pawpaw's requirements of deep, fertile, well-drained soil, on a sloping site with air drainage and shade during establishment did not qualify with the micro climate/ soil specifications for this rain garden. As a general observation rain gardens take approximately three years to become established this rain garden soil was comprised of high PH subsoil clay, and most likely contained saline conditions from parking lot run off as well as automobile pollutants (i.e. motor oil, grease, anti-freeze, etc.) since it was adjacent to a large parking lot area.

The planting included various plants with grasses, perennials, forbs, etc. I have been able to observe over the last ten years that this same rain garden flourished, admittedly it did have proper landscape management techniques in its maintenance. The rain garden plants have been cut down periodically to renovate the area. This could simulate a natural burn down by fire to rejuvenate the plant material, which in some locations could be a viable alternative to weed eating. Some of the Pawpaw trees were injured in the process and formed root suckers which is their natural form. Pawpaw's tend to grow in thickets in the wild and over time, in this planting, some of the plants have reverted to that form.

In a separate area designed as a bio swale a diversity of plant material primarily designed for a wet site were installed. This included shrubs such as viburnum, shrub dogwood, and a variety of sedges. I did not do the original installation but came in later as a maintenance contractor, at which time I added Pawpaw's as a trial to replace several trees that did not do well. This area was also subject to deer pressure. Again, the Pawpaw are holding up well but not as vigorously as in the rain garden; perhaps due to less vegetation at the base of the plant to shade and protect the roots. Used in a landscape application I was able to observe the Pawpaw's in a third micro-climate. The Papaws were installed as a group planting to be an understory layer beneath a canopy of Maples on a gentle south facing slope. At installation the tree baskets were removed, to allow root development and Pawpaw's were planted with the root flare/collar exposed. Shredded bark mulch was used as a temporary ground cover. This installation is as close as we get to a text-book planting. All the trees had minimal losses, and great fruit production Please note that the fruit are sought after by wildlife and you are lucky if you get to the fruit first. There is no chance for a mess from fallen fruit.

The Pawpaw is an unusual plant reproductively. It is considered triocious, meaning they have staminate, pistillate, and hermaphrodite flowers on different plants. The flowers are also protogynous, signifying that the pollen ripening along with the receptiveness of the flower, are not in harmony. This being said, on the negative side Pawpaw's are a challenge to pollinate. The plants have both sexes on the same plant, but the timing causes them to not be able to pollinate themselves. Furthermore, bees do not assist in pollination because the flowers are pollinated by beetles and flies. The plants are fetid, denoting that they stink like rotting flesh to attract pollinators. Although my experience hand pollination works tremendously well. I have even had success in fruit production from hand pollinating plants from trees in the same patch on my property in Wayne County, Ohio.

The Pawpaw fruit generally ripens mid-September to October. Historically in the month of September, the moon has long been recognized as the "Moon of the Pawpaw's" (Blue Jacket- Warrior of the Shawnees by John Sugden, p115).

The native Pawpaw tree is much more versatile than has been thought in the past as far as adaptability to different microclimates. It is a great plant to use in a sustainable landscape situation, group planting in the landscape and as a great addition to the edible landscapes that have become more popular in recent years. It is also a tree that adapts well to the more difficult moist landscape micro-climates. The conclusion is that the Native Pawpaw tree is very adaptable to different microclimates and is a great plant to try as a landscape specimen, group planting, or in the sustainable edible landscape.
A few things you may have missed going on in the grounds management industry.

**Industry News**

**THE ARBOR DAY FOUNDATION RECOGNIZES INAUGURAL CLASS OF TREE CAMPUSS HEALTHCARE FACILITIES**

Sixteen hospitals across the country are recognized for their leadership in wellness and community engagement through trees.

Lincoln, Neb. (March 2, 2020) – The Arbor Day Foundation today recognized sixteen hospitals across the United States as the first-ever Tree Campus Healthcare facilities. The healthcare institutions earned this recognition by demonstrating a commitment to improving community wellness through tree planting, education, and community engagement.

“We applaud these facilities who are leading the way in improving the health and wellness of their communities through trees,” said Dan Lambe, president, the Arbor Day Foundation. “We’re grateful to our collaborators like Practice Greenhealth and our professional partner The Davey Tree Expert Company for sharing our vision of raising awareness of the role of trees in the global future of health and supporting the growth of the program.”

Recognized healthcare facilities demonstrated a profound understanding of the intersection of nature and human health through activities like distributing free trees to community members and using trees to create therapeutic landscapes on campus. Each facility met five program standards throughout the year: the formation of an advisory committee, development of a tree care plan, participation in a community forestry project, sponsorship of a celebration event or education campaign, and a suggested commitment to financial investment in tree projects, education events, and/or community outreach.

“Participating in the Tree Campus Healthcare program is an integral part of our strategy to invest in the health and well-being of the population we serve,” said Jon Utech, Senior Director, Office for a Healthy Environment at UAB Hospital (AL), Masonic Homes Kentucky (KY), UK Healthcare (KY), Perry Point Veterans Affairs Medical Center (MD), Spectrum Health Blodgett Hospital (MI), Atrium Health Mercy (NC), Parkland Medical Center (NH), Cleveland Clinic (OH), The Ohio State University Wexner Medical Center (OH), Coatesville Veterans Affairs Medical Center (PA), Penn State Health Milton S. Hershey Medical Center (PA), The Medical University of South Carolina (SC), CHRISTUS Mother Frances Hospital – Tyler (TX), Seattle Children’s Hospital (WA), Amery Hospital and Clinic (WI), and Westfids Hospital and Clinic (WI).

Research shows that patient interaction with green space, gardens, parks, and natural areas helps the human condition. Trees specifically can improve respiratory health, lower urban temperatures, improve mental health, and provide restorative properties.

For more information, please visit www.treecampushealthcare.org. This program is made possible through financial support from professional partner The Davey Tree Expert Company and the collaboration of the Professional Grounds Management Society, Practice Greenhealth and the USDA Forest Service. Interested inpatient healthcare facilities may apply for 2020 recognition this fall.

About the Arbor Day Foundation

Founded in 1972, the Arbor Day Foundation has grown to become the largest nonprofit membership organization dedicated to planting trees, with more than one million members, supporters, and valued partners. Their vision is to help others understand and use trees as a solution to many of the global issues we face today, including air quality, water quality, climate change, deforestation, poverty and hunger.

As one of the world’s largest operating conservation foundations, the Arbor Day Foundation educates and engages stakeholders and communities across the globe to involve themselves in its mission of planting, nurturing and celebrating trees. More information is available at arborday.org.

PGMS® understands the difficult situation our members are facing during the COVID-19 outbreak. The Society has developed a resource document, providing key considerations, recommendations, what members around the country are doing, and other resources. You can access the page at https://pgms.org/2020/03/19/pgms-covid-19-information/.

Additional information will be updated on the webpage as it becomes available. PGMS® encourages members to use the “COVID-19” thread in the “Ask A Professional” section of their member portal to share what their institutions are doing and to post questions.

To the right are some useful links.

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**COVID-19 RESOURCES**

Center for Disease Control and Prevention
https://www.cdc.gov/coronavirus/

Occupational Safety and Health Administration (OSHA)
https://www.osha.gov/SLTC/covid-19/

National Institutes of Health (NIH)
https://www.nih.gov/health-information/coronavirus

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**LEGISLATION MANDATING PRESSURE REGULATION FOR SPRAYS IS COMING**

NO PROBLEM. We’ve got your back.

FROM CALIFORNIA TO VERMONT, state and local agencies are increasingly mandating the use of pressure-regulated devices to save water. At Hunter, water conservation is part of who we are. Our innovative Pro-Spray® PRS30 and PRS40 spray bodies save up to 30% more water compared to systems without pressure regulation. Look for their easily identifiable brown and gray caps to comply with new requirements. Learn more at hunter.direct/prospray.

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**RESIDENTIAL & COMMERCIAL IRRIGATION**

Built on Innovation®
NORTH CAROLINA BRANCH  ODD FELLOWS
CEMETERY OUTREACH

The PGMS North Carolina Branch are hosts to an annual outreach project at the Odd Fellows Cemetery, a landmark in Winston-Salem, N.C. that has fallen into disrepair. PGMS is taking a systematic approach to brush removal and prevention to bring the cemetery back to a manageable state. This year the volunteers were able to move a substantial amount of debris that went beyond the capacity of the debris container. Thank you to all of those who were able to attend and provide support for the event as well as those who supported the event and were not able to make it in person!
The Green Star Awards salutes the grounds manager responsible for maintaining a well-manicured landscape year round. Grand, Honor, and Merit Awards are offered in 15 categories, covering all types of private, public, commercial, and industrial landscapes. To qualify for entry, a landscape must be at least two years old and under your continuous maintenance for at least two (2) years.

The 2020 Green Star Awards Application will be released Monday, March 23, 2020 and is available through Friday, July 17.

For more information, including eligibility, FAQs, and how to enter, please visit: pgms.org/green-star-awards/.
NEW TORO® E-DINGO™ ELECTRIC COMPACT UTILITY LOADER

NO GAS, JUST GREEN
ZERO EXHAUST EMISSIONS
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500+ LB RATED OPERATING CAPACITY

BUILT FOR INDOORS, STRONG ENOUGH FOR OUTDOORS

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ROBOTIC PAINTER AT DUKE UNIVERSITY

Submitted by: Roger Conner, CGM

At Duke University, working on sport turf has led to many challenges. These are challenges felt by many sport turf professionals year after year. The athletic teams across the country expect the playing and practice fields to be painted and pristine for use at a moment’s notice. This is often difficult with the many demands on field maintenance and various sports practicing at the same time.

The old adage “Do More with Less” holds true. We decided to give a robot paint machine a try. We want to give our sports teams the best fields we can. The goal was to give our athletes consistent field lines with the most accuracy possible.

The paint machine has achieved this goal with the added byproduct of less manpower needed to achieve the end result of a precisely marked field. No longer do we spend hours prior to each season measuring layouts or have to employ two workers to pull strings. The robot working through satellite communication locates fields and dials in accurate measurements for predesigned fields for the desired sport. It used to take 3 employees approximately 9 hours each (27 man hours) to paint the practice football field. With the robot, one employee can paint the field the same complex in 8 hours. The user has the ability to move a field a few feet to reduce constant wear in areas of high use.

Some additional pros and cons of the machine:

PROS
• Need ½ as much paint
• Straighter lines
• Less man hours to paint
• Easily adjust field to prevent wear

CONS
• Trees and Buildings can block satellite signal
• Machine measure to center of line not outside edge

No sport is too complex, from football to lacrosse, to Quidditch, the robot can do it. The savings in manpower can be immense, allowing workers to detail other jobs and increase productivity. The use of GPS robots continue to grow. Accuracy, reliability, and uses will continue over time. For us the emerging technology has been very successful in allowing us to do more with the same workforce.
Just like you, we hold perennials to an extremely high standard. Perennials should be durable, no-fuss plants we can count on to fill our landscapes with gorgeous, reliable beauty year after year. They should return bigger and better without the hassle of needing replacements or constant upkeep. That’s exactly what you’ll get with Proven Winners perennials – trialed and selected for unbeatable garden performance.

**PROVEN PERENNIALS YOU CAN COUNT ON**

- **DECADENCE® 'Lemon Meringue' Baptisia**
- **SHADOWLAND® 'Coast to Coast' Hosta**
- **'Midnight Masquerade' Penstemon**
- **ROCK ‘N GROW® 'Pride and Joy' Sedum**
- **PRAIRIE WINDS® 'Cheyenne Sky' Panicum**

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**CALENDAR OF EVENTS**

Submit your events to us at info@pgms.org.

**JULY 14 - 15**

PGMS® School of Grounds Management Summer Conference
Washington, D.C.

**OCT 20 - 23**

PGMS® School of Grounds Management Annual Conference & GIE+EXPO
Louisville, KY

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**Groundskeeper**
University of Puget Sound

Responsible for all duties associated with landscape maintenance program on the university’s 97-acre urban campus. Responsible for keeping the campus in safe condition during snow or stormy weather. Applies pesticides under the direction of the grounds supervisor, operates small and large sized power equipment as needed, and may be responsible to oversee student staff when they are working on particular tasks. Required to perform the job safely. For complete job description and application instructions, visit: https://aptrkr.com/1836203.

**Director of Landscape Services**
Duke University Facilities Management

The Director is responsible for providing leadership and oversight for the comprehensive maintenance of over 400 acres including over 15,000 trees of campus landscape and approximately 75 staff, for Duke University. The Director is responsible for the daily operations of all landscape services staff including managing an on-site staff of Superintendents, Planners, Supervisors, Horticulturists, Landscape Specialists, Tree Crew and Equipment Operators.

**Supervisor of Turf and Irrigation**
University of Michigan Grounds Services

As stewards for the outdoor properties of the U-M’s Ann Arbor Campus, Grounds Services provides horticultural and grounds keeping maintenance. Our specialized crews are dedicated professionals who pride themselves in caring for the university’s natural areas. To apply visit: https://careers.umich.edu/job_detail/184695/turf_and_irrigation_supervisor_intermediate.

**Laborer**
College of the Holy Cross

The Facilities department is a service organization dedicated to support the College’s Mission and its various constituents in a proactive manner. We provide a wide range of services to efficiently operate, maintain and protect our facilities, grounds and infrastructure, in such a way as to create and sustain a clean, safe, functional and aesthetic environment conducive to quality learning, living and working, while preserving our College’s physical heritage for future generations. Please formally apply here: https://holycross.interiewexchange.com/jobofferdetails.jsp?JOBID=121177.

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**Classifieds**

Find up-to-date job listings on our website at www.pgms.org and click on Career Center.

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Exceptional Plant Growth. Average Watering Cycle = 2x per Week. 50% Reduction in Labor, Maintenance & Water Usage.

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**Groundskeeper**

Pomona College is seeking a Groundskeeper to perform a variety of duties related to the maintenance of courtyards, entryways, walkways, patios, parking lots, streets, signs, irrigation systems, tennis courts, volleyball courts, and athletic facilities for the college. The Groundskeeper establishes and maintains a variety of plant life; maintains and uses all related equipment; and maintains grounds to ensure clean, orderly, and safe conditions. This position reports to the Manager of Landscaping and Grounds. To apply visit: https://theclaremontcolleges.wd1.myworkdayjobs.com/POM_Careers/job/Claremont/Groundskeeper-REQ-2422.

**Lawn Care Technician**

Acra Landscaping & Grounds Mgmt.

We have an excellent opportunity for a Grounds Maintenance professional to join our organization! The purpose of this position is to maintain the appearance of the grounds throughout all of our properties; additionally this position is responsible for snow removal at our facilities during the off season.

**Plant Health Care Specialist**

Carmine Labriola Contracting Corp.

Long-standing loyal landscape contractor in White Plains, NY servicing large estates and corporate properties is seeking experienced, knowledgeable and hard-working Plant Health Care Specialist licensed in NY and CT. Specialist would plan work, prepare work orders, schedule, account for job costs, mix and perform applications of organic and chemical products. Hourly wages based upon experience including health insurance and 401K plan. Send resume and salary requirements to Cindy.Maricic@clcc.com.

**Horticulturist**

Carmine Labriola Contracting Corp.

Hands-on Horticulturist would work with designers, select plants, account for job costs, prepare soil install the plants and provide weekly care. Ideal candidate should have strong perennial and annual flower background. Hourly wages based upon experience including health insurance and 401K plan. Send resume and salary requirements to Cindy.Maricic@clcc.com.

**Groundskeeper**

Arizona State University - Tempe Campus

Facilities Management, Grounds Services, Tempe campus, seeks Groundskeepers to maintain grounds and participate in all types of grounds maintenance activities. To apply please go to www.asu.edu/asujobs/see Req Id# 599148R.

**Grounds Maintenance**

WaterOne

The purpose of this position is to maintain the appearance of the grounds throughout WaterOne; additionally this position is responsible for painting of WaterOne facilities during the off season. Apply Here: http://www.Click2Apply.net/c64bmo87fc2i1wqwn4.

**Arboriculture Intern**

Winterthur Museum, Garden & Library - Winterthur, Delaware

The Arboriculture Intern will learn and apply fundamental arboricultural concepts and skills through active participation with Winterthurs arborists in various aspects of tree care throughout the Winterthur property, including pruning, climbing, and proper equipment usage. Application Deadline: April 1, 2020.

**Arborist University Internship**

Oklahoma State University - Stillwater, Oklahoma

The Intern will work under the leadership of the Landscape Services University Arborist. The candidate selected will receive extensive training and work on many projects both collaboratively and independently including AV/Video GPS/GIS tree inventory, identification, protection, design, installation and maintenance. Application deadline March 31, 2020.

**Horticulture Internship**

Chevy Chase Club - Chevy Chase, Maryland

Horticulture interns work alongside staff to complete various tasks that enhance and maintain the landscape and gardens. The areas of emphasis include an herb and vegetable garden, rose garden, native woodland gardens, herbaceous perennial borders, two acres of turf and an extensive collection of trees, shrubs, annuals and tropical plants. Application Deadline: April 3, 2020.

**Horticulture Internship**

Smithsonian Gardens - Washington, D.C.

Internships with Grounds Management Operations are designed for students who seek work-related experience in a public garden with a diverse workforce. Internships involve manual labor; exposure to adverse weather conditions (particularly heat and humidity); and exposure to dust and dirt. Application Deadlines: Fall – July 1, 2020 | Winter/ Spring - December 1, 2020.

**Horticulture Intern (4 positions)**

Winterthur Museum, Garden & Library - Winterthur, Delaware

The Horticulture Intern will learn and apply excellent horticultural techniques while working one-on-one with horticulture staff and independently at times in order to preserve and maintain the historic design intent of the Winterthur Garden and Estate. Application Deadline: April 1, 2020.
The Professional Grounds Management Society (PGMS) is an individual membership society of grounds professionals advancing the grounds management profession through education and professional development.

**Key membership benefits include:** Annual conference and Green Industry Expo, bi-monthly newsletter, membership certificate, certification programs (Certified Grounds Manager and Certified Grounds Technician), free educational manuals, local branch meetings, “Who’s Who in Grounds Management” membership directory, site awards, free industry magazine subscriptions, etc.

The Society believes that there are four (4) essentials to remaining a professional in the industry:

1. Being a member of the appropriate membership organization or organizations.
2. Attending educational conferences in the field.
3. Reading industry publications.
4. Becoming certified at the level you wish to operate.

**Other Key facts About PGMS:**

- It is the only membership organization for institutional grounds managers.
- It is the only membership organization serving the breadth of the service arm of the Green Industry which professionals can join as individuals.
- It is the oldest individual membership organization for grounds professionals.
- For membership categories and to sign up as a member please visit [https://pgms.org/join-pgms/categories/](https://pgms.org/join-pgms/categories/).

We offer Green Industry Suppliers the opportunity to meet their marketing needs by becoming a **PGMS Partner in Professionalism**. For more information visit [www.pgms.org/partnersinprofessionalism/](http://www.pgms.org/partnersinprofessionalism/).