



# Shop Talk

# Facilities Management

Duke University

Creating Tomorrow's Duke Today

October 2015

## Message from the VP

The annual Years of Service luncheon, held in September, is my favorite event of the year. This year FMD celebrated over 1200 years of service to Duke. Employees with a milestone anniversary in 2015 can be found on page two.

On Monday October 5th, Durham tied the record for consecutive rain days, first set in 1887. The total amount of rain was almost 8 inches but it could have been much higher, due to the possibility of Hurricane Joaquin making an appearance. While FMD prepared for the Board of Trustees meeting, Founders Day Weekend, and a home football game, we also prepared for Joaquin as though the storm was a certainty, not just a threat. Preparation was required on many different fronts:

General Maintenance Mechanics placed sandbags in low-lying areas and checked window wells and drains to prevent flooding. Plumbers worked through the weekend to check basements for flooding. Generator and sump pumps were checked and extra supplies were brought in.

Utility Operators opened the valves controlling the water flow from the pond and lowered the water depth by two feet to prepare for the deluge.

Project Managers ensured that the tower cranes and crawler booms were positioned to withstand the storm. They also made sure that the materials at every staging area and construction site were removed or secured.

Landscape Services had equipment and staff on hand to clear downed trees. They also worked to unclog drains across campus.

Luckily, Joaquin went out to sea, Duke won the football game, and the sun came out two days later!

Thanks to everyone who helped prepare for the Trustees' meetings, Founders Day weekend, and game-day. One of my favorite quotes, attributed to Ben Franklin is, "If you fail to plan, you are planning to fail!". Although the weekend was wet, it was a success, due to the planning done by all of you. Thank you!

John J. Noonan  
Vice President for Facilities



## LANDSCAPE SERVICES WINS NATIONAL AWARD

The Professional Grounds Management Society has awarded Duke University's East Campus a 2015 Green Star Honor Award, which recognizes the country's best maintained landscapes.

## STEAM PLANT RECOGNIZED



The American Society of Heating and Air-Conditioning Engineers (ASHRAE) Regional Chapter has awarded the West Campus Steam Plant an Honorable Mention Technology Award. The award recognizes outstanding innovative building design and energy conservation.

## DUKE CROWNED ACC CHAMP IN GAME DAY RECYCLING CHALLENGE

Duke was named conference winner for waste minimization at the 2015 Game Day Recycling Challenge, a competition for colleges and universities to promote waste reduction at their football games. Duke beat out six other ACC schools. Duke also came in 12th out of 53 schools for the largest National Diversion Rate. Sanitation and Recycling are working to divert 90% of waste generated at one home game in 2015.

## HOSPITAL PARKING GARAGE (PG2) WINS AWARD

Parking Garage II, across from Duke Hospital, has won first place in the Parking Structure Renovation/Rehabilitated category from the Carolinas Parking Association. The renovation was complex in part because the parking garage remained open during construction.

## NEW DIBS SPACE IN LSRC WINS AWARDS

The Duke University Institute for Brain Sciences (DIBS) project has won the Eagle Award (the highest honor) for Excellence in Construction from the the Association of Builders and Contractors, as well as a Merit Award from Engineering-News Record Southeast. DIBS was created in the former chiller room in LSRC. (See page 4 for more details.)

## YEARS OF SERVICE HONOREES



**Five** years of service: (left to right): Boyd Pickard, Mamie Moore, Greg Loftis, Vicky Davenport, Andy Currin, Mark Crute. Not pictured: Jose Campos, Tim Cherry, George Henderson, Keon Holloway, Whitney Hughston, Kennedy Lewis, James Logan, John Lundeen, Kowaski Pittman, Levi Rice, Joey Underwood, Kenny Washington, and Divante Wright.



**Ten** years of service: (left to right) Rodolfo Rojas, Arrid Owens, Derrick Jeffries, Sharika Mack, Albert Holloway, Gwendolyn Kimble, William Earls, Velda Thornton, Mallissa Doles, Helen Brantley, Helen Smith, Nicki Dixon. Not pictured: Butch Beeks, Sandy Dockery-Moore, James Doherty, Vernon Garner, Donna Hudson, Stan Jones, Noah Langley, John Noonan, Tim Rainey, Kenny Stanley, Celestina Torres, Olivia Vaughn, Abiathar Wade, and Corey Woodley.



**Fifteen** years of service (left to right): Odilia Aguilar, Gary Atkins, Bessie Hamilton, Mark Hough, Sean Lyons, Robin Jones, Gwendolyn Ward. Not pictured: Ihsaan Azeez, Tara Garrett, Cynthia Goodwin, Edith Hester, Donald Jackson, Tabatha Riley, Cynthia Scott, Wesley Wallace, Frankie Warren and Hattie Webb.



**Twenty** years of service: Woody Cheek, Lartarsha Hall, Sandy Meadows, Andy O'Shea, and Robert Autry. Not pictured: Bonnie Davis, Paula Hunter, Rebecca Nelson, Steve Sparks, Mike Stephenson, and Eric Terry.



**Twentyfive** years of service: Steve Sanford, Donzella Winstead, Keith Guile. Not pictured: Jeff Connolly, Sharon Green, Dawn Houghton, Vincent Matthews, and Robert Mosley



**Thirty** years of service: Daryl Clayton and Elvis Holden. Not pictured: Bill Wheless



**Thirtyfive** years of service: Rodney Andrews, David Bryant, Daniel Rogers, and Cheryl Williams



## Fun Fact:

This summer the original copper roof on Duke Chapel was replaced. The black peel and stick barrier that is laid down before the copper reached 128 degrees and the lead coated copper reached 115 degrees. The contractor provided tents, first aid, and cold water at the roof level to keep the roofers safe. The work was completed ahead of schedule and the exterior scaffolding will start to come down this fall.



## ENTRY TO WEST CAMPUS FINALLY FINISHED!



Detail showing sconces in place

This summer the front gate on University Drive was upgraded and finally completed as per the original Horace Trumbauer drawings. For the last 85 years the recessed nook where the lights should have been placed has been empty. Before the work, the Duke stone walls were somewhat hidden behind several crepe myrtles.

**Ray Walker** went to the archives and determined that while the lights were part of the original design, they were never installed. He studied the lights on the Chapel and surrounding buildings to determine the proper scale and material. He drew a sketch and collaborated with a custom metal shop in downtown Durham to create the sconces.

**Mark Hough** developed the plan to upgrade the gates, including new plants and lighting to highlight the gate instead of hide it. **Aurel Selezeanu** helped bring electricity to the gates and **Andy Currin** designed the irrigation and flower beds. **Virginia Norton** served as project manager and worked closely with the contractor who did the work.

The walls were washed, LED up-lighting was added, the crepe myrtles removed, new plants and irrigation installed, the new sconces were fabri-



cated and installed. The campus entry finally looks the way that Horace Trumbauer intended.

## KEEP YOUR FAMILY COVERED

If you have a spouse or a child covered by one of Duke's four health insurance plans, you are required to show proof that those who are covered meet the eligibility requirements. Eligible dependents include your legal spouse or same-sex spousal equivalent and your dependent children (natural, stepchildren, adopted children, foster children, children for whom you are legal guardian up to the 26th birthday, or dependent children over the age of 26 with mental or physical disabilities who have met the criteria). Documentation must be turned in, either by mail or by logging into Duke@Work by November 6, 2015.

Everything you need to know to comply with this verification can be found on the HR web-page: [hr.duke.edu/benefits/medical/dependents/faq](http://hr.duke.edu/benefits/medical/dependents/faq).

## CONGRATULATIONS TO THE SEPTEMBER EMPLOYEES OF THE MONTH



**Barry Burnett**, Senior Grounds Equipment Operator, 13 years of service. For the past eight years, one of Barry's responsibilities has been the care of the lawns in Duke Gardens. His supervisor gets calls on a regular basis from our customers at the Gardens complementing Barry on his eye for detail and his love of the gardens. Barry is also a team player with outstanding attendance.



**Steve Carrow**, Project Manager, 8 years of service. Steve was the project manager on the conversion of the LSRC chiller room to the Duke Institute for Brain Studies. The underground space was perfect for the acoustically sensitive research that DIBS performs. A glass entry was added on the LSRC plaza to bring light into the space. Steve managed these complicated projects and ensured they were done on time and on budget.



**Lee Duffy**, Carpenter, 8 years of service. Lee's dedication to his work is outstanding. He makes it his point to support his fellow coworkers. Whenever they need assistance with various jobs he never hesitates to step up. He is a very talented carpenter and a great person to be around. Lee always has a positive attitude provides great customer service.



**Emmet Dullaghan**, High Voltage Electrician, 29 years of service. Emmet is self-motivated and a dedicated worker that is always willing to put forth the time and effort it takes to get the job completed on time and within the budget. The 2015 Football season is up and running due to Emmett's time and dedication to the Wallace Wade improvement project and is an example of his workmanship.



**Chad Mills**, Utility Worker, Housekeeping, 7 years of service. Chad is a hardworking employee who always volunteers to help out his colleagues with whatever comes up, including carrying their load and delivering their supplies. He is always pleasant and polite and his customers speak very highly of him.



## CENTRAL CHILLED WATER SYSTEM LEADS TO NEW COLLABORATIVE SPACE

Before Duke built its state-of-the-art chilled water distribution system, buildings on West Campus were cooled by individual chillers. These chillers were located in large mechanical rooms located in the basement of each building. This summer two new collaborative spaces opened, built in former mechanical rooms that once housed chillers.



LSRC opened in 1994 and was connected to the central chilled water system in 2009, making its four chillers obsolete. Once the chillers were removed, over 10,000 square feet of space became available. In 2012 work began to transform the basement. The space was cleaned out, a small mechanical room created and some overhead pipes rerouted. A glass cube was constructed on the LSRC patio to serve as the entrance to the space. This modern entrance also allows natural light to reach the basement space.

The Duke Institute for Brain Sciences (DIBS) moved into the former mechanical room in May 2015. It is two levels - a mezzanine consisting of offices and a conference room, and the main level below which has teaching labs, an atrium, and lots of collaborative space.

Gross Chem opened in 1968 was added to the Central Plant



System in 2001. In 2006, the Chemistry department relocated to French Science, and Gross Hall was shuttered and slated for demolition to make room for a new building. The new building never materialized

due to the economic downturn. Instead of tearing it down, the upper floors were renovated and reopened in 2012 and 2013. In September 2015, the grand opening celebration was held for "The Foundry" a 7,600 square foot space in what had been the basement mechanical room.

The Foundry offers modular and flexible workspace and dedicated design and project space. One room has a garage door and a loading bay for the Duke Electric Vehicles club. Another houses 3-D printers for the DukeMakers club. It is co-sponsored by the Pratt

School of Engineering, Duke Innovation and Entrepreneurship, the Duke Energy Initiative, the Information Initiative at Duke, the Innovation Co-lab and the Duke Department of Physics.

What used to be dark, loud, and inaccessible spaces are now full of people working together. The spaces are designed to foster innovation - and it was innovative thinking that led to the transformation of these mechanical rooms into the great spaces that they are today.

## SAFETY ZONE

October is Fire Prevention Month. Fires kill more than 4,000 Americans each year and injure 20,000 more. This month, make sure your home is protected from (and your family is prepared for) a fire. Here are 10 simple tips to help you avoid fires and reduce the risk of injury should one occur:

- 1) Install smoke alarms on every level of your home and test them monthly.
- 2) Do not overload circuits or extension cords, and do not place cords and wires under rugs or in high traffic areas.
- 3) Unplug all appliances when not in use.
- 4) Leave ample space around any portable heating unit. Keep anything that could catch fire at least three feet away from a portable heater.
- 5) Consider installing fire safety sprinklers. They can increase your home's value and lower insurance rates.
- 6) Create an escape route and practice your escape plan with your family from every room in the house. Practice staying low to the floor and checking for hot doors using the back of your hand.
- 7) Keep TV sets, kitchen and other appliances away from windows with curtains. If there is a wiring problem, curtains can spread a fire quickly.
- 8) Clean the lint filter every time you start a load of clothes to dry or after the drying cycle is complete. Make sure your exhaust duct is made of metal tubing and not plastic or foil. Clean the exhaust duct with a good quality dryer vent brush to prevent blockage & check for lint build up behind the dryer at least twice a year.
- 9) Check all of your holiday lights prior to stringing them up and dispose of anything with frayed or exposed wires. Keep them away from anything that can easily catch fire.
- 10) Check all of your electronic equipment and wiring at least once a month.



**Our Mission: To be stewards of Duke University by providing excellence in planning, design, construction, cleanliness, operations and maintenance of facilities, grounds and utilities, for the University Community in a safe, efficient and sustainable manner.**