Message from the VP

In July our Strategic Initiative Report was sent out to all of FMD and also to our colleagues across campus. The report highlights some of our accomplishments in 2014 and gives a status update on the goals and priorities we have set for ourselves. If you did not get a copy or don’t have access to our website (fmd.duke.edu), please contact Sarah Burdick for a copy.

While our Strategic Initiatives never change, the priorities we set to reach them do. Our current priorities were established in January of 2013. Our new EAM system, the new method for ordering and storing tools and supplies, the reorganization of Facilities Operations, the improved safety training compliance in Housekeeping, and the Electrical Safety Program roll-out are all examples of the priorities we set for ourselves in early 2013.

Currently we are seeking input from University administrators and new priorities will be developed by senior staff in early October. If you have an idea about what the Department should focus on in order to be the best at what we do when it comes to communication, customer service, employees, information systems, cost management, planning, processes, reliability, safety, and sustainability, please contact Sarah Burdick.

John J. Noonan
Vice President for Facilities

BALDWIN AUDITORIUM AWARD COUNT GROWS

Baldwin Auditorium has recently won two awards for lighting: a Lumen Award of Merit and an Illuminating Engineering Society award of Merit.

Before the restoration, the circular opening in the dome (called an oculus) was covered up with black paint. Now the oculus and dome glow and pendants hang from the ceiling to provide lighting for the balcony.

As of August 1st, Baldwin has received the following awards:

- LEED Silver Certification
- BD+C Reconstruction Silver Award
- 2014 Lumen Award of Merit
- 2014 Illuminating Engineering Society Illumination Merit Award
- 2014 Associated Builders & Contractors Excellence in Construction Award
- 2013 Associated Builders & Contractors Excellence in Construction Award for Renovation, North Carolina

EAST CAMPUS HOME OF FIRST NCAA STADIUM WITH LED LIGHTING

Williams Field on East Campus will soon be the first NCAA Division One outdoor college sports venue to be lit with LED lighting. The field was built in 1996 and renovated in 2011.

The LED lights, which come from Durham’s own Cree Inc., will replace the 1500 watt metal halide fixtures. The lights will have wireless controls and are designed to provide light output for 25 years. Even though the number of fixtures is being reduced by more than one-third, the LED lights will increase the amount of light on the field and are projected to use 70% less energy. The High Voltage shop is assisting in the project.

Williams Field on East Campus will host the 2014 ACC Field Hockey Championships in November.
SUMMER INTERNS STAY BUSY

FMD has hired to following students to push projects along this summer:

**Rema Abu-Zayed** is a rising senior at East Carolina University studying Mechanical Engineering. She works at West Campus Chiller Plant #2, developing MS Office training modules for Operators and Supervisors. She has also collected and entered data into EAM, created standard Transmitter Calibration and Construction Field reports, and created Steam and Chiller plant brochures to share information about our plants. Rema has also drawn piping and instrumentation diagrams to contribute to the systems training modules being given to all utility operators and mechanics.

**Deborah Brown** is a rising senior at the National Technical Institute for the Deaf (NTID) in Rochester, New York, majoring in Computer-aided Drafting Technology with Associate in Occupational Studies (AOS). This summer she worked performing both GIS and CAD as-built documentation work related to the upkeep and maintenance of both systems.

**Eli Frazier** is a rising senior at North Carolina State University majoring in Environmental Technology and Management, and is working as an Urban Forestry and GIS Technician. She is taking an inventory of the trees on campus, as well as working with that data on ArcGIS to create utility maps such as watering maps for the irrigation of newly planted trees. She is also creating a tour of the Duke University Memorial Trees.

**Jeff Farr** is a 3rd year Master of Landscape Architecture Candidate at the NC State School of Design and his work this summer includes designing a few small spaces on Duke’s campus, reformatting and consolidating the Landscape and Grounds Management Design Guidelines, as well as updating the Office of the University Architect’s Webpage.

**Amanda Pfeiffer** is a rising senior at the University of North Carolina at Charlotte with a degree in Marketing and has been working under Tommy Davis and Joe Stewart in Business Services. Over the summer she has worked with both EAM and SAP software as well as helped redesign our alert notices.

**Matt Racher** is a rising senior at UNC Charlotte, majoring in Construction Management. This summer, he has been helping document the light fixtures around West Campus and the Marine Lab. This data will be used to develop the new pedestrian/lighting plan.

**Abbey Sweet** is a graduate student at East Carolina University studying Occupational Safety and will be entering her second semester in the fall. This summer she has worked with Mike Snyder and helped with the development and modification of safety programs that are tailored to FMD.

**Patrick Tolan** is a rising senior at NC State University majoring in Environmental Technology and Management (minoring in Plant Biology). He is working in Grounds as a Urban Forestry and GIS Technician. He is taking inventory of the trees on campus and working on creating a specimen tree tour. This project entails picking trees that are great examples of that species or have a unique quality, compiling a list of information/“blurbs” for each tree, and making sure that the trees are located throughout the campus so that the tour isn’t just a tree tour, but a tour that also shows you what Duke has to offer.

**Peyton Daly** is a rising junior at North Carolina State University majoring in Environmental Technology and Management, and is working as an Urban Forestry and GIS Technician. She is taking an inventory of the trees on campus, as well as working with that data on ArcGIS to create utility maps such as watering maps for the irrigation of newly planted trees. She is also creating a tour of the Duke University Memorial Trees.

**Patrick Tolan** is a rising senior at NC State University majoring in Environmental Technology and Management (minoring in Plant Biology). He is working in Grounds as a Urban Forestry and GIS Technician. He is taking inventory of the trees on campus and working on creating a specimen tree tour. This project entails picking trees that are great examples of that species or have a unique quality, compiling a list of information/“blurbs” for each tree, and making sure that the trees are located throughout the campus so that the tour isn’t just a tree tour, but a tour that also shows you what Duke has to offer.

**Fun Fact:**

Representatives from Universal Studios came to tour chiller plant #2 in July. They hope to improve control of their plant and heard that Duke had one of the most efficient chilled water plants in the country. They wanted to understand the updated Siemens control strategies that we implemented and see the results first hand.

**LED LIGHTS ENLIVEN WEST CAMPUS STEAM PLANT**

The smoke-stacks at the West Campus Steam Plant were removed during the conversion and restoration project. One base was removed, and a cap was added to the remaining base which is equipped LED lights in primary colors. This means that the cap can emit any color in the rainbow, except, of course, Carolina Blue. The lights are computer controlled and will be changed for holidays or events. Look for it to glow pink during Breast Cancer Awareness Month.
HANDS FREE PARKING GATES NEW TO DUKE

Alphonso Alonzo, Project Manager, is overseeing a campus wide upgrade of the gated parking lots across campus. Duke is installing a new radio-frequency identification (RFID) technology system that will cut down on lines at entries and exits and offer customers a hands-free mode of parking. With an RFID tag, a parking gate will raise up without the need to reach out and swipe a permit. This new technology will also allow Duke to analyze usage data to consider short-term and occasional-use parking options, among other programs.

A main change for users is that they will be required to use their RFID tag to exit their lot through an automatic gate. Parking permits and DukeCards will also operate the gates, but drivers are encouraged to make the RFID their primary credential to cut down on lines at exits.

This new system will prevent unauthorized use of parking lots with another individual’s credential. Once a customer has entered a parking lot, he or she will not be able to use the RFID tag or other credential to enter that lot. Customers must exit before they can re-enter the lot. Access credentials also will not provide entry to multiple vehicles simultaneously.

HOUSEKEEPING USES CLEANER MADE ON SITE

The Housekeeping staff at the Pratt School of Engineering is testing cutting edge technology with the new Orbio OS3 machine. Like the machine at Fuqua, it makes a cleaning solution out of tap water, salt, and electricity, but it also uses the left-over water from that process to make a disinfectant. Not one single drop of water is wasted. Making the cleaning solution and disinfectant on site means less emissions from delivery trucks, and less waste in the landfill since there is no packaging. This is just one more example of how Facilities Management bleeds blue and lives green.

CUSTOMER THANKS CUSTOMER SERVICE STAFF

Charles Beck, Facilities and Logistics Supervisor for Perkins Library retired in July. He submitted work orders on behalf of the library on a daily basis. On his last day of work he visited FMD to say goodbye to the Customer Service staff and gave them flowers to thank them for their customer service.

CONGRATULATIONS TO THE JULY EMPLOYEES OF THE MONTH

Ron Djuren, Project Manager & Staff Architect, 31 years of service. Ron has worked on the Perkins renovation since its first phase 15 years ago. The final phase is a complete renovation one of the oldest buildings on campus. When complete next summer, it will be a state of the art research facility. He managed every Fuqua addition and also the original Thomas Center in 1989. He is now in charge of the addition and renovation scheduled to start this spring.

Mike Golden, General Maintenance Mechanic, Marine Lab, 23 years of service. After Hurricane Arthur passed over the Marine Lab on July 3rd, Mike was at the Marine lab at 7:00 AM to being cleaning up. He worked a 9 hour day on his scheduled holiday to repair the damage. Mike received several letters of thanks from our customers at the Marine Lab.

BJ Janney, HVACR specialist, Preventive Maintenance Shop, 7 years of service. BJ takes care of east campus HVAC equipment during the day and in addition has taken on the role of coordinating the overtime schedule and ordering supplies in time to ensure the parts arrive just in time for the after-hours work. He’s also embraced the new iPad and offers assistance to others. He is always positive, upbeat and ready to take on more.

Sandra Watkins, Housekeeper, 5 years experience. Sandra recently returned to a lab because she smelled something unusual. She discovered a fire in a trash can in French Science and was able to extinguish it. Her focus on safety and quick thinking saved the University a lot of trouble and money and prompted thanks from customers.

Tom Young, Control Systems Engineering Analyst, 5 years of service. Tom works on the system that controls our buildings and chilled water plants. Over the last year he has trained our Utility Plant Operators on operation of the system. Recently Tom teamed with Facility Operations on updating the control sequences for the piano storage room at Baldwin. This assures that the pianos will stay in tune.
FALL PROTECTION DEMONSTRATION

It took about three years to get him here, but finally, with the assistance of Tiffany Jelovich from Grainger, we were able to arrange for Keith Delias, the Miller Fall Protection representative, to bring his traveling fall protection demonstration truck to Duke University. We’d tried to get Keith to come to previous safety fairs we hosted, but his schedule just didn’t work out to allow that. Three training and demonstration sessions were held on July 15th, at Smith Warehouse and at the West Campus Steam Plant. The reaction and feedback has been 100% positive: our employees like and appreciate this kind of hands-on and visual type of training. Look for more of this kind of training in the future.

SAFETY STRATEGIC GOAL INITIATIVES UPDATE

Now that the Electrical Safety Program has been rolled out and Housekeeping employees have met the 95% compliance goal for safety training, two of the strategic initiatives are complete. The third goal, to reduce the sprains and strains injuries our employees were incurring on-the-job, has proved to be a not-so-surprising challenge.

Although the percentage of strains/sprains suffered on-the-job that resulted in days away or restricted time (DART) rate was down slightly to 62.5% from the 2009-13 rate of 73.7%, the effort still needs our focused attention.

We are continuing to work towards a reduction of sprains and strains through education from Duke’s Live for Life group, as well as through stretching programs currently taking place in our High Voltage, Utilities, and West 3 Housekeeping areas. Each employee is responsible for their own health and well-being. If you see a need for a better or safety work practice or equipment that will make a task safer, by all means let your supervisor know. The right way is the safe way.

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