



Shop Talk

Facilities Management

Duke University

Building Tomorrow's Duke Today

April 2012

Message from the VP

Our Green Devil Smackdown team was named R3: Reduce, Recycle, Restore. We could have easily added a fourth R: renovate. That's what we've focused on recently.

Renovations at the Medical Center Grounds building are now complete. A new space was created underneath an existing building at Wallace Wade Stadium for Grounds employees. The space includes lockers, a break room/meeting room, storage, and a kitchen. The original Grounds building between Wallace Wade and the Pascal Field House is now being renovated to provide more space for everyone.

The Smith Warehouse office renovations are underway. This will provide the Work Control Center with an improved layout. Project managers will switch places with the plans area on the second floor, creating a secure room to store Duke's drawings and plans.

Because of the renovations at the West Campus Steam Plant, remaining employees moved into Chiller Plant #2 last month. The total number of employees working in Chiller Plant #2 is now 30.

The search for the Senior Director of Grounds, Housekeeping and Sanitation Services is underway and the search for a new Grounds Director has also begun.

These renovations are one way FMD can make our mission a reality. We provide excellence in planning, design, construction, operations, and maintenance for Duke in a safe, customer-focused, efficient, and sustainable manner.

John Noonan
Vice President, Facilities

Facilities News

BOARD OF TRUSTEES APPROVES CAMPUS PROJECTS

The Board of Trustees approved these projects at its February meeting:

- Selection of an architect for the West Campus Union. The building will be completely renovated and serve as the "living room" for campus. Bill McGraw is the project manager for the project.
- Construction of a new building to be called Environment Hall. This building will serve as home for the Nicholas School of the Environment and will be located adjacent to LSRC. The building will be designed to obtain LEED platinum certification. Groundbreaking is planned for late April and is expected to be completed by summer 2013. Myron Taschuk will serve as project manager.
- A new façade for the Paul Gross Hall renovation (formerly Gross Chem). The second and third floor are being renovated to include new lab space and academic offices. The side of the building facing Towerview Road will be transformed when concrete panels are replaced with windows. The project manager is Myron Taschuk.
- Construction of a water reclamation pond next to Chilled Water Plant #2. The pond will provide water to the chiller plant, saving about 100 million gallons of potable water a year. The pond will also hold storm water runoff and include walking paths and an outdoor amphitheater. Steve Carrow will serve as the project manager.



Artistic rendering of future water reclamation pond.

News Across FMD:

TREE CAMPUS USA

For the fourth year in a row, Duke has been named a “Tree Campus USA” site by the Arbor Day Foundation. The award is given to campuses that promote a healthy management of campus forests. Grounds held a tree planting event April 6 to celebrate.

9/11 MEMORIAL

Our Grounds team has been updating the inventory of trees on campus and working to replace decaying trees and trees that are impacted by construction on campus. Recently, the six existing Magnolia trees and memorial plaque that were removed during the K4 construction were reinstalled in their original locations, along the McClendon Tower walkway. These trees were planted on the first anniversary of 9/11 as a memorial to the six alumni who died in the attacks.



Keohane Quad 9/11 memorial trees and plaque replanted after K4 construction

DUKE RECYCLES DONATES TO CHILDREN’S HOSPITAL

During football season, Duke Recycles collected recyclables at home games and donated the proceeds to the Duke Children’s Hospital and Health Center. This year, \$900 worth of recyclables was collected and head coach David Cutcliffe personally matched the amount. When presenting the check for \$1,800, Cutcliffe pointed to the recycling team of

Jeanette Douglas, David Bryant, Arwen Buchholz, Dorothy Dunkins, Larry Dunkins, Sarah Hall, Jessica Moore, and Mary Royster and said “This group is the only undefeated team on campus.”

DUKE RECYCLING CRUSHES THE COMPETITION

Every spring, Duke participates in the RecycleMania Tournament – a friendly competition and benchmarking tool for college and universities to see who recycles the most. Just over 600 schools participated, and Duke finished in fifth for recycling paper with a whopping 23.35 pounds per person. Even more impressive, Duke finished second for the “Gorilla Prize,” which measures the highest gross tonnage of combined paper, cardboard, bottles and cans regardless of campus population. Duke collected just over 1.3 million pounds of recycled material.

WEST CAMPUS STEAM PLANT UPDATE

The third and final boiler for the West Campus Steam Plant renovation project was delivered April 3 on a 110-foot long tractor rig with 30 wheels. A 550-ton crane was used to set it into the building.



New boiler arrives at West Campus Steam Plant



FMD Fun Fact:

Baldwin Auditorium was built between 1926 and 1930 and was designed by Horace Trumbauer and Julian Abele. Its dome is actually comprised of two domes. The smaller dome is visible from the inside and contains a skylight. The outside dome has a circumference of 245 feet. The building is undergoing a \$15 million renovation scheduled to be complete in 2013. The project manager is Ray Walker, whose high school band played concerts in the auditorium. He still remembers where he sat on stage.

FMD STEAM PLANT EMPLOYEES MOVED INTO CHILLER PLANT #2

In March, remaining employees left the West Campus Steam Plant construction site and moved to a quiet space at Chiller Plant #2. There are now 30 employees who report to work there.

One of those employees is Paul Schuler, a utility operator who started working in Facilities in 1988. Paul worked for over 20 years in the West Campus Steam Plant, a tough environment which involved a lot of physical labor. Now, Paul sits in the brand new control room with plenty of light and lots of quiet.

He credits the move with a boost in morale for all the former steam plant employees – not only due to the improved workspace but also the fact that the job has changed. Paul and his colleagues are responsible for the steam and chilled water plants, and he also keeps track of the confined space permits.

Utility workers have new work schedules - instead of having some employees work only nights, the night shift is now switched out every four months. The switch has helped with training and communication – employees now regularly see their supervisor regardless of what shift they work.

Even though Paul's new duties and environment are enjoyable, it doesn't come without challenges. Paul used to be able to walk the plant – now he is several blocks away and relies on the plant operators since he can no longer physically see the plant. There is a lot of communication between plant operators and control room operators.

Paul is also learning about the chilled water system and has responsibility for confined space permits. In the control room, Paul is able to tell which employee is in what manhole



Paul Schuler at work in the control room of Chiller Plant #2

and when they went in – vital information necessary to keep FMD employees safe.

Shatone Bailey also works in Chiller Plant #2. She said she enjoyed the company and camaraderie of her coworkers.

"I like our new location," Bailey said. "Now that I'm at Chiller Plant #2, it's more convenient to receive and complete my tasks because we're in one building. Since I'm the first person you see when you enter the office, I especially enjoy the reaction from people when they express their amazement with the new control room."



Construction is underway at Baldwin Auditorium.



**Got a
Shop Talk
Update or
Suggestion?**

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**THE RIGHT WAY IS
THE SAFE WAY!**



**Safety
Zone**

**SAFETY INCIDENT
REVIEW (SIR)
UPDATE:**

Below is a summary of the one Days Away Restricted Time (DART) injury that occurred since Jan. 1 and was reviewed during the SIR completed with the employee and supervisor (union representative attends at the employee request) after the incident.

- Employee fell off a six-foot ladder and suffered a strained shoulder after completing work that involved running wire from the outside to the inside of a building .

There were seven other injuries FMD employees incurred during the first quarter of 2012, none resulting in lost days from work or work restrictions. These ranged from strains and injured knees to abrasions and a skin rash.

After setting our highest DART rate since 2008 (see table below), we've turned the corner. We saw our first quarter DART injuries dip to just one compared to six for the first quarter of 2011. Great effort and attention to duty! Remember: SAFE, RIGHT, FAST....as you go throughout the day at home or at work.

The end result: ZERO injuries in the workplace.

You can also find this chart on either the FMD Safety web page (fmd.duke.edu/safety) or on the shared drive at: G:\Safety\OESO\DART_Other Injury Reports\Qtrly DART Rate Chart 1Apr12

MARCH SAFETY TRAINING COMPLIANCE STATUS:

- 97.7% FMD (+1.9%)**
- 100% Admin (no change)
- 100% Business Services (no change)
- 100% HR (no change)
- 100% OPM (no change)
- 100% DUML (no change)
- 98.6% Grounds (+2.1%)
- 97.5% DUES (+2.5%)
- 96.2% Maintenance Services (+2.0%)

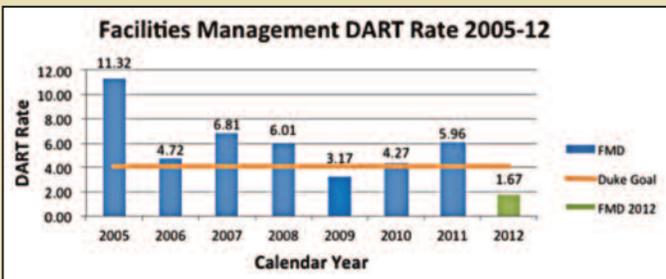
NOTE: Percentage in parenthesis indicates increase/decrease in compliance fm previous month.

**The 6th Annual
FMD/OESO
Safety Fair is**

Coming June 21

Our 6th annual Safety Fair will be held at the Washington Duke Inn in the Ambassador Ballroom from 8 a.m. to noon June 21 - the timing coincides with National Safety Awareness Month. We already have 10 vendors signed up to participate, the largest number we've ever experienced this far in advance.

If you know of a supplier or company you believe might be interested in joining, send the info to mike.snyder@duke.edu. Mark your calendars now and plan to attend. Look for more details in the next Shoptalk and through our communications bulletins.



HOW THE DART RATE IS DETERMINED

The DART rate is derived via a formula that evaluates the number of injuries that result in either days away or restricted time for all operating units with 100 or more employees and the number of hours those full time employees work.



Our Mission: To provide excellence in planning, design, construction, operation and maintenance for facilities, grounds and utilities in a customer-focused, efficient and sustainable manner.