PHYSICAL FACILITIES UPDATE

September 24, 2014

Michael B. Cline, P.E., PTOE
Vice President for Physical Facilities
## PHYSICAL FACILITIES UPDATE

### OUR ORGANIZATION

#### The Numbers
- A team of approximately 900 professionals
- Provide a range of services to customers on a campus of more than 380 buildings
- FY14 Operating Budget: $106M

#### Units
- Buildings and Grounds
- Communications
- Energy and Construction

#### Collaborative Partners
- Fiscal Affairs
- Human Resources
OUR ORGANIZATION

Michael B. Cline
Vice President
Physical Facilities

Amy Boyle
Associate Director
Human Resources

John Higgins
Fiscal Director
Physical Facilities

Meghan Leiseberg
Managing Director of Communications

Adrian Allen
Director of Facilities Contracting

Kevin Green
Assistant Director of Capital Planning

John Collier
Director of Campus Master Planning

Bob Olson
University Engineer

Terry Ashlock
Senior Director of Buildings & Grounds
PHYSICAL FACILITIES UPDATE

RECENTLY COMPLETED PROJECTS

Krach Leadership Center
- Is a critical element of the student success corridor
- Creates a bridge between residential and academic life
- Houses resources including academic advising, leadership development programs and student organization meeting
- Located at the corner of North Martin Jischke Drive and Third Street

Third Street Suites
- Is a 304-bed residence hall designed to support student learning and retention
- Includes mixed-use retail space on the first floor
- Located near the corner of North Martin Jischke Drive and Third Street
PHYSICAL FACILITIES UPDATE

RECENTLY COMPLETED PROJECTS

Drug Discovery Facility
- Houses biochemistry research space and area for innovative research and training in the discovery, design and development of new drugs
- Located in the Life and Health Sciences Park, northwest of Lyles-Porter Hall

Lyles-Porter Hall
- Houses the Department of Speech, Language and Hearing Sciences, the Indiana University School of Medicine – Lafayette, and other health programs
- Located on the northwest corner of South University Street and Harrison Street in the Life and Health Sciences Park
PHYSICAL FACILITIES UPDATE

RECENTLY COMPLETED PROJECTS

Harrison Street Parking Garage
• Is an 850 vehicle parking garage attached to the west side of Lyles-Porter Hall

Ralph and Bettye Bailey Hall
• Houses Purdue Musical Organizations (PMO) and features rehearsal space, offices, a music library and a student lounge and study area
• Located on the southeast corner of Grant Street and Northwestern Avenue
PHYSICAL FACILITIES UPDATE

ONGOING PROJECTS

COLLEGE OF ENGINEERING STRATEGIC GROWTH RENOVATIONS – PHASE 1 (GRISsom HALL)

• Board of Trustees Approved Funding: $70M /
  • Phase 1 funding: $15M
• Demolition: 95% complete
• Construction: 1% complete
• Occupancy: 08/03/15

ACTIVE LEARNING CENTER

• Board of Trustees Approved Funding: $79M
• Design: 50% complete
• Utility make ready: 80% complete
• Demolition: 30% complete
• Occupancy: 05/01/17
PHYSICAL FACILITIES UPDATE

ONGOING PROJECTS

SOFTBALL

- Board of Trustees Approved Funding: $13M
- Design: 100% complete
- Construction: 65% complete
- Occupancy: 03/02/15

HONORS COLLEGE AND RESIDENCES

- GMP to Board of Trustees: 09/26/14
- Occupancy: 08/16

Future site
WANG HALL TENANT IMPROVEMENTS

- Current Project Estimate: $11.5M
- Design: 100% complete
- Construction: 75% complete
- Occupancy: Phased from 04/29/14 to 02/20/15
PHYSICAL FACILITIES UPDATE

METERING INITIATIVE

- Implementation began in 2013
- Substantial completion is expected in Fall 2015
- To date, over 530 total meters have been installed on chilled water, domestic water, steam condensate and electrical systems
- Currently metering data is being used in a variety of ways:
  - Create energy baselines for each building
  - Identify potential energy savings opportunities (i.e. simultaneous heating and cooling)
  - Controls upgrades based on metering data
  - For significant reductions in the quantity of “manual reads” in metering program via centralized electronic data collection
  - For real-time performance management and predictive analytics
PHYSICAL FACILITIES UPDATE

METERING INITIATIVE

Scope of Campus Metering

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Total Campus Gross Square Feet</td>
<td>18,927,606</td>
</tr>
<tr>
<td>Total Gross Square Feet to be Metered</td>
<td>16,703,424</td>
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<tr>
<td>Metering Complete To Date</td>
<td>8,677,014</td>
</tr>
<tr>
<td>Total Percent of Campus to be Metered</td>
<td>88%</td>
</tr>
<tr>
<td>Total Percent of Metering Complete to Date</td>
<td>52%</td>
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</table>

Metering by Building Category

<table>
<thead>
<tr>
<th>Category</th>
<th>Buildings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Facilities</td>
<td>106</td>
</tr>
<tr>
<td>Housing and Food Services</td>
<td>33</td>
</tr>
<tr>
<td>Athletics</td>
<td>5</td>
</tr>
<tr>
<td>Recreational Sports</td>
<td>3</td>
</tr>
<tr>
<td>Total Number of Buildings</td>
<td>147</td>
</tr>
</tbody>
</table>

Diagram: Pie chart showing metering by building category with physical facilities (PF) in orange, housing and food services (HFS) in gray, athletics (ATHL) in light blue, and recreational sports (REC) in black.
PHYSICAL FACILITIES UPDATE

CAMPUS SAFETY ENHANCEMENTS

• Based on recommendations of security feedback panel
• Pilot program – 27 large classrooms
  ○ Emergency alert beacons
    – Activated when a Purdue ALERT is issued
  ○ Door locks
  ○ Evaluation of pilot program in the summer of 2015
• Desktop “pop-up alerts” on the majority of classroom computers and in university computer labs
• Integration of Purdue Emergency Twitter account (@purdueemergency) with Purdue ALERT text message system
• Enhancements to Campus Safety Status webpage (http://www.purdue.edu/emergency/)
• All-hazards awareness training sessions
• Ongoing collaborative work to identify additional potential safety/security enhancements
THANK YOU