From the Director’s Desk…

There is a great deal of activity across campus. Every summer, Physical Plant takes on additional work to ready the campus for another academic year. Loads of construction and major repair work are crammed into the summer so that we can take advantage of the lower occupancy and accommodating weather.

Keeping campus facilities and infrastructure operating requires a dedicated, round-the-clock effort, but in the summer our staff goes above and beyond to get more done.

Enjoy the update and please be mindful of the activity across campus.

—Jay Bieszke

PREVENTIVE MAINTENANCE

In April, Physical Plant technicians completed more than 1,800 PM activities and generated 460 follow-up repairs.

PROJECTS SUBSTANTIALLY COMPLETED—MAY 2021

Eight projects (worth $220K) reached substantial completion during the past month.

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Building</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRJ-21-002195</td>
<td>Birge Hall</td>
<td>Remodel Room</td>
<td>$113K</td>
</tr>
<tr>
<td>PRJ-21-002264</td>
<td>Birge Hall</td>
<td>Renovate Multiple Rooms</td>
<td>$21K</td>
</tr>
<tr>
<td>PRJ-21-002415</td>
<td>Van Vleck Hall</td>
<td>Install AV System</td>
<td>$11K</td>
</tr>
<tr>
<td>PRJ-21-002349</td>
<td>Computer Science</td>
<td>Update 4th Floor Hallway</td>
<td>$14K</td>
</tr>
<tr>
<td>PRJ-21-002301</td>
<td>Medical Foundation Centennial Bldg</td>
<td>Sound Mitigation</td>
<td>$14K</td>
</tr>
<tr>
<td>PRJ-21-002416</td>
<td>Van Vleck Hall</td>
<td>Install AV System</td>
<td>$10K</td>
</tr>
<tr>
<td>PRJ-21-002427</td>
<td>Hasler Limnology Building</td>
<td>Restroom Upgrade</td>
<td>$25K</td>
</tr>
<tr>
<td>PRJ-21-002361</td>
<td>Van Hise Hall</td>
<td>Install AV System</td>
<td>$12K</td>
</tr>
</tbody>
</table>

Total Value of Work (Final Amount TBD) $220K
BREAKDOWNS AND EMERGENCY CALLS

There were 120 facilities emergency calls in May 2021 and no major facilities issues.

ACTIVE FACILITIES-RELATED INSURANCE CLAIMS (LOSS EXCEEDING $25K)

Since the last report, facility repairs for the following insurance claims were completed:

- **Vandalism (July 31, 2020).** Hagenah Fountain (Library Mall); approximately $26K.
- **Water Damage (February 6, 2021).** School of Social Work; approximately $130K.
- **Burst Pipes (February 15-17, 2021).** Agricultural Engineering, Sterling Hall, and Charmany Veterinary Medicine; approximately $25K.
- **Water Damage (February 11, 2021).** Bardeen Medical Laboratory; approximately $30K.

All work to address claims incurred prior to March 24, 2021 is substantially complete, with two exceptions:

- **Wind & Hail Damage (July 27, 2020).** Peninsular Agricultural Research Station, Sturgeon Bay repairs are at 30%; expected completion delayed until July due to weather. Approximate cost: $40K.
- **Electrical Failure (August 25, 2020).** Microbial Science Substation repair is expected to continue until July 2021. Work is approximately 35% complete. Approximate cost: $600K.

After March 24, there were two wind events, one water related event, and four property-related events totaling approximately $184k. Small claims (<$25K) are not included below.

- **Wind Damage (April 11 2021).** UW Medical Foundation Centennial Building roof components blew off. Roof assembly is being redesigned for better wind resilience; construction is expected to take place in fall of 2021; approximately $115K.
- **Property Damage (May 11, 2021).** At HSLC exterior façade damage due to departmentally contracted vendor. Completion is expected in fall of 2021; approximately $25K.
HELUM PLANT OPERATIONAL UPDATE

UW-Madison’s average helium demand from January through March was 1,900 liters. This increased in April to 3,500 liters, primarily in support of two National Magnetic Resonance cool-downs at Chemistry and Biochemistry.

- The university’s cost for external purchase price of helium increased in April from $14.59 to $15.28 per liter per contract with AirGas.
- Pump upgrades are continuing at WIMR. Work slowed by contamination caused by equipment malfunction.
- Liquefier operation has been normal except for one week in April when the system was down for leak repair.

CAMPUS ENERGY – OUR COLLECTIVE DRIVE FOR EFFICIENCY

Physical Plant Utilities & Energy Management makes continuous operational improvements to achieve a more efficient use of energy and reduce overall consumption. Facility and infrastructure improvements have resulted in a 25 percent reduction in energy consumption since 2005.

On a more granular level, we track the energy consumption of many facilities, including several "energy hogs." We still have many opportunities to improve how we use and operate buildings to make further reductions.

The table at right illustrates our campus energy consumption is largely influenced by eleven of the largest consumers on campus.

Energy Use Intensity (EUI), measured in kBtu/GSF, is an industry measure used to track the comparative operational efficiency of a building while taking into consideration changes in campus size and changes in climatic conditions. While the building’s design and thermo-physical properties of the building elements have a major impact, behavior and operational demands can also have a substantial impact on building energy consumption. Even small changes in these facilities can have a great impact to the university’s budget and impact on the environment.
**SUMMER 2021 PROJECT STATUS**

**Operationally Critical Projects Underway for Summer 2021 Construction**

Summer 2021 in-house construction efforts are fully underway. This year projects were selected based on a collective effort that included representatives from SMPH, L&S, CALS, VCRGE, CoE, and DoIT. The ad-hoc team collaboratively prioritized projects and identified the ones that would have the greatest impact to the University’s mission and benefitted from reduced summertime campus occupancy.

**KEY**

*Project Milestones / Progress*

Projects generally follow a series of standard milestones as we work with the customer to clarify scope, design, and the details; and conduct detailed work planning, order materials, and execute construction.

**Milestones**

<table>
<thead>
<tr>
<th>Project ID</th>
<th>Project Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRJ-21-002280</td>
<td>Convert Instructional Lab 118 for Research</td>
<td>Construction Complete</td>
</tr>
<tr>
<td>PRJ-21-002300</td>
<td>Create Additional Entry/Egress, Rm 319C</td>
<td>Construction Complete</td>
</tr>
<tr>
<td>PRJ-21-002406</td>
<td>Renovate Research Lab &amp; Offices 5th Floor</td>
<td>Construction Complete</td>
</tr>
<tr>
<td>PRJ-21-002491</td>
<td>Renovate Lab B355 to Improve Utilization</td>
<td>Awaiting Customer Signature of CSA</td>
</tr>
<tr>
<td>PRJ-21-002461</td>
<td>Renovate Room 2109 to Create Wet Lab</td>
<td>Construction Complete (scope reduced by customer)</td>
</tr>
<tr>
<td>WO 21-071487</td>
<td>Upgrade Classroom 321</td>
<td>Construction Complete</td>
</tr>
<tr>
<td>PRJ-21-002520</td>
<td>Create 1st Floor Grad Lounge</td>
<td>Estimating</td>
</tr>
</tbody>
</table>

**Current Status Summary**

- Design: 0
- Estimating: 1
- Construction: 18
- Complete: 12
- Awaiting Commitment: 1
- Customer Withdrawn/Postponed: 2

---

Physical Plant Monthly Report—May 2021
SUMMER 2021 RENOVATION PROJECTS, CONTINUED

PRJ-21-002195  
Letters & Science  
Birge Hall  
Renovate Sample Containment Lab B244  
$114K  
Construction: 95%

PRJ-21-002204  
Letters & Science  
Integrative Biology Research Building  
Create Research Lab 124-128 for Incoming PI  
$30K  
Construction Complete

PRJ-21-002223  
Letters & Science  
Integrative Biology Research Building  
Renovate Research Lab Rm 28 for Incoming PI  
$66K  
Construction: 35%

PRJ-21-002243  
Letters & Science  
Integrative Biology Research Building  
Renovate Research Lab 116-120 for Incoming PI  
$190K  
Construction: 75%

PRJ-21-002264  
Letters & Science  
Birge Hall  
Renovate Research Lab 347-351 for Incoming PI  
$21K  
Substantially Complete: 95%

PRJ-21-002443  
Letters & Science  
Social Sciences  
Update Class Lab 5310 - ILM  
$20K  
Construction: 85%

PRJ-21-002442  
Letters & Science  
Sterling Hall  
Update Class Lab 3517- ILM  
$22K  
Construction: 45%

PRJ-21-002364  
Letters & Science  
Birge Hall  
Update Class Lab - ILM  
$117K  
Construction: 60%

PRJ-21-002146  
Letters & Science  
Computer Science  
Renovate Research Lab 1351 or 1355  
$25K  
Construction Complete

PRJ-21-002174  
Letters & Science  
Computer Science  
Renovate Conference Rooms 3310, 3410  
$27K  
Construction Complete

PRJ-21-002344  
Letters & Science  
Weeks Hall  
Renovate Lab Support Room 270 - ILM  
$197K  
Construction: 5%
### SUMMER 2021 RENOVATION PROJECTS, CONTINUED

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRJ-21-002446</td>
<td>Upgrade Classroom 1561 - ILM</td>
<td>$66K</td>
</tr>
<tr>
<td>PRJ-21-002445</td>
<td>Upgrade Classroom 1351 - ILM</td>
<td>$32K</td>
</tr>
<tr>
<td>PRJ-21-002488</td>
<td>Renovate Research Lab 4528 to Add Equipment</td>
<td>$165K</td>
</tr>
<tr>
<td>PRJ-21-002486</td>
<td>Improve Classrooms, Labs</td>
<td>$80K</td>
</tr>
<tr>
<td>PRJ-21-002354</td>
<td>Combine Rooms 564, 566 to Create Larger Classroom</td>
<td>$70K</td>
</tr>
<tr>
<td>PRJ-20-002111</td>
<td>Renovate Research Lab B1073</td>
<td>$106K</td>
</tr>
<tr>
<td>PRJ-21-002270</td>
<td>Renovate Office 5177 to Increase Occupancy</td>
<td>$8K</td>
</tr>
<tr>
<td>PRJ-21-002474</td>
<td>Relocate Research Lab 7120/A to 7162/3</td>
<td>$118K</td>
</tr>
<tr>
<td>PRJ-21-002304</td>
<td>Renovate Research Lab 7168 to Add Fume Hoods</td>
<td>$7K</td>
</tr>
<tr>
<td>PRJ-21-002355</td>
<td>Install Services 4th &amp; 5th Floors for Occupancy Increase</td>
<td>$148K</td>
</tr>
<tr>
<td>PRJ-21-002412</td>
<td>Install CO2 Sensors</td>
<td>$11K</td>
</tr>
<tr>
<td>PRJ-21-002361</td>
<td>Upgrade Classroom 215 AV - ILM</td>
<td>$13K</td>
</tr>
</tbody>
</table>
SUMMER 2021 RENOVATION PROJECTS, CONTINUED

<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRJ-21-002415</td>
<td>Upgrade Classroom B115 AV - ILM</td>
<td>$11K</td>
</tr>
<tr>
<td>PRJ-21-002416</td>
<td>Upgrade Classroom B139 AV - ILM</td>
<td>$10K</td>
</tr>
<tr>
<td>PRJ-21-002454</td>
<td>Upgrade Classrooms 1217, 1221 Lighting Systems</td>
<td>$19K</td>
</tr>
<tr>
<td>N/A</td>
<td>Renovate Research Lab 634 to Add Equipment</td>
<td></td>
</tr>
</tbody>
</table>

CONE ZONE—COMMUNICATES WEEKLY CONSTRUCTION IMPACTS

Physical Plant publishes a weekly communication about upcoming and ongoing work, called The Cone Zone. This document includes the location, type of work, and contact information for projects that might impact the campus community.

The University relies on facility managers to keep the faculty, staff, students, and others in campus buildings informed about projects that affect them. The Cone Zone provides facility managers and other key stakeholders with critical information they need and specific points of contact if they have questions or concerns.

Each Cone Zone entry includes an annotated map and other key information about the project (example at right).

Inquire with your facility manager to see the latest Cone Zone. To be added to the Cone Zone weekly distribution list, please contact Physical Plant Customer Service at 608-263-3333 or email ppcustomerservice@fpm.wisc.edu.