Building Coordinators Meeting

Welcome

John Millsap– College of Engineering
College of Engineering

- COLLEGE FACTS  Fall 2009
  - 88 tenured faculty members
  - 1,411 undergraduate students
  - 354 graduate students
  - 5 Departments and 6 Disciplines
  - 120 P&S/Merit staff
  - $41 Million in Research Expenditures 07/08
College of Engineering

• BUILDING FACTS
  – C of E occupies 285,498 square feet on campus
  – SC, IIHR, NADS, ERF, IATL, CB, LACMRERS, OPL
  – First academic building: (Engineering Hall 1905)
College of Engineering

• 2008 Flood
  – Stanley Hydraulics, ERF, Wind Tunnel/ Model Annex/Machine shop were all impacted.
  – All buildings have been since reopened.
Realigning Service Levels

Dan Heater – Building and Landscape Services

Bill Ciha – Manager, Custodial Services
Addressing Reduced Funding & Staffing

Impacts to funding …..

• B&LS is funded through GEF
  - 50% of B&LS is State appropriations
  - 50% of B&LS is tuition funded

• a 10% State cut translates to 5% B&LS impact
Addressing Reduced Funding & Staffing

Impacts to staffing....

• Loss of staffing through attrition
• Early retirements
• Temporary staffing
• Opening new buildings
Anticipation and Preparation

• Building & Landscape Services Reductions Task Force
• Meeting with Deans
• Decision to focus services on:
  - Essential service unit functions
  - Proactive and preventive approach to operations and maintenance
  - Stewardship of University physical assets
Realigning Service Levels

How will services be affected?

• Cleaning for health
• Reduction of trash and recycle handling
• Preventive/corrective operations and maint.
• Responding to emergencies
Realigning Service Levels

Questions?
Comprehensive Recycling and Waste Management RFP

Dave Jackson and John Klopp
Value Stream Mapping

Costs of handling General Waste at the University of Iowa

Annual Cost: $7,000,000
$.28 per lb.
Value Stream Mapping

Costs of handling Recycling at the University of Iowa

UI Staff salaries, benefits, materials, equipment

UI Staff salaries, benefits, materials, equipment

City Carton labor, benefits, material, equipment

City Carton labor, benefits, material, equipment

City Carton labor, benefits, material, equipment

+$47.50/ton

Annual Cost: $720,000

$ .18 per lb.
Value Stream Mapping

Costs of handling **Confidential Waste** at the University of Iowa

UI Staff salaries, benefits, materials, equipment

Iron Mountain salaries, benefits, materials, equipment

Iron Mountain salaries, benefits, materials, equipment

Iron Mountain salaries, benefits, materials, equipment

**Annual Cost: $76,000**

$0.10 per lb.
Comprehensive Recycling and Waste Management RFP

Objective: Identify a single Supplier capable of providing a comprehensive recycling and waste management program for the University.

Comprehensive Recycling and Waste Management RFP

Combines current contracts which expire June 30, 2010, including:

• Recycling Contract with City Carton Co.
• On-Site Confidential Document Destruction Services with Iron Mountain
• Folds in Waste Removal / Trash Hauling Services from UI Facilities Management
Comprehensive Recycling and Waste Management RFP

Tentative Timeline for RFP

Dec. 7, 2009, Request for Proposal 13733 Issued
Dec. 14, 2009, Pre-Proposal Meeting 10AM to 12 Noon
Dec. 15, 2009, Addendum #1 – Minutes of Pre-Proposal Meeting Issued
Dec. 18, 2009, Attachment B – RFP Response and Question Form Due
Dec. 21, 2009, Addendum #2 – Issue Responses to Suppliers’ Questions
Jan. 20, 2010, Request for Proposal Responses Due From Suppliers
## Recycling and Waste Management RFP Team Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Klopp</td>
<td>UI Purchasing</td>
</tr>
<tr>
<td>Betty Moey</td>
<td>UI Purchasing</td>
</tr>
<tr>
<td>Gary Anderson,</td>
<td>General Stores</td>
</tr>
<tr>
<td>Jim Henderson</td>
<td>College of Medicine</td>
</tr>
<tr>
<td>Scott Arneson,</td>
<td>College of Dentistry</td>
</tr>
<tr>
<td>Eugene Buck,</td>
<td>College of Liberal Arts</td>
</tr>
<tr>
<td>Tom Kueny,</td>
<td>College of Business</td>
</tr>
<tr>
<td>Kelli Grey,</td>
<td>College of Public Health</td>
</tr>
<tr>
<td>Bettina Hass,</td>
<td>College of Education</td>
</tr>
<tr>
<td>Damian Simcox,</td>
<td>Athletics</td>
</tr>
<tr>
<td>Von Stange</td>
<td>UI Housing</td>
</tr>
<tr>
<td>Greg Dirks</td>
<td>UI Housing</td>
</tr>
<tr>
<td>Marty Shafer</td>
<td>UI Hospitals &amp; Clinics</td>
</tr>
<tr>
<td>Jim Pyrz</td>
<td>Env. Health &amp; Safety</td>
</tr>
<tr>
<td>Liz Christiansen</td>
<td>Office of Sustainability</td>
</tr>
<tr>
<td>Kathryn Kurth</td>
<td>UI Risk Management</td>
</tr>
<tr>
<td>Dan Heater</td>
<td>Building &amp; Landscape Svs.</td>
</tr>
<tr>
<td>Bob Brooks</td>
<td>Building &amp; Landscape Svs.</td>
</tr>
<tr>
<td>Dave Jackson</td>
<td>Facilities Management</td>
</tr>
<tr>
<td>Shelley Squier</td>
<td>Business &amp; Financial Svc.</td>
</tr>
<tr>
<td>Linda Dvorak</td>
<td>Building &amp; Landscape Svs.</td>
</tr>
<tr>
<td>Bill Ciha</td>
<td>Building &amp; Landscape Svs.</td>
</tr>
<tr>
<td>Joe Brinson</td>
<td>Facilities Management</td>
</tr>
<tr>
<td>Barb Gartner</td>
<td>Iowa Memorial Union</td>
</tr>
<tr>
<td>Joe Luntz</td>
<td>Iowa Memorial Union</td>
</tr>
<tr>
<td>Desire Christensen</td>
<td>Student Public Health</td>
</tr>
<tr>
<td>Jacob Deutmeyer</td>
<td>College of Business</td>
</tr>
<tr>
<td>Sara Snyder</td>
<td>Graduate Research Asst</td>
</tr>
</tbody>
</table>

---

 FACILITIES MANAGEMENT  
 THE UNIVERSITY OF IOWA  

Recycling and Waste Management RFP
Building Coordinator Role

Communicate with vendor and help identify:

- Space for more centrally located containers
- Schedules for pick-ups that work for the building
- Ways to reduce trash in the building
- Ways to increase recycling
Comprehensive Recycling and Waste Management RFP

Questions?
Energy Hawks

Glen Mowery and Dan Heater
Energy Hawks

- The Energy Hawks were established as a result of The University of Iowa Energy Conservation and Management Strategic Plan in February 2007.
- The plan calls for an Energy Consumption Reduction of 10% by 2010
Energy Hawk Team

The Energy Hawk Team works to reduce energy consumption by:

- Analyzing equipment components and systems
- Identifying equipment problems before failure
- Optimizing system performance
Energy Hawk Team

An Energy Hawk Team consists of people from the following skilled work areas:

• Building & Landscape Services:
  – Operations Engineer
  – Area Mechanic
  – HVAC Mechanic

• Utilities & Energy Management:
  – Energy Engineer
  – (2) Controls Engineers
General Fund Building Energy Consumption
Total MMBTU FY 08

- Electricity
- Steam
- Chilled Water

MBTU

- Bowen Science
- Medical Labs
- Pharmacy
- Chemistry
- MERF
- Biology
General Fund Building Energy Consumption
MMBTU per GSF FY 08

- **Electricity**
- **Steam**
- **Chilled Water**

<table>
<thead>
<tr>
<th>Building</th>
<th>MMBTU per GSF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>0.8</td>
</tr>
<tr>
<td>MRF</td>
<td>0.7</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>0.6</td>
</tr>
<tr>
<td>Medical labs</td>
<td>0.6</td>
</tr>
<tr>
<td>CBAR</td>
<td>0.5</td>
</tr>
<tr>
<td>Bowen</td>
<td>0.4</td>
</tr>
<tr>
<td>Science</td>
<td>0.2</td>
</tr>
</tbody>
</table>
Energy Hawk Team

- Al Culbert – Operations Engineer
  - Process:
    - Engage Building Coordinators
    - Establish building system trends
    - Review building drawings and equipment lists
    - Develop action plan
  - Results:
<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Issue</th>
<th>Issue description</th>
<th>Fixed by</th>
<th>Issue Resolution (Open/Closed)</th>
<th>Resolution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mechanical Rm</td>
<td>Outside Air Damper Not closing</td>
<td>Shawn/Carl</td>
<td>Closed</td>
<td>7/21/2009</td>
</tr>
<tr>
<td>2</td>
<td>Mechanical Rm</td>
<td>Outside Air Dampers Needs to be replaced. Pneumatic actuators could be replaced with electric to prevent air line freeze up in the future. Replacing dampers will allow more aggressive scheduling.</td>
<td>P&amp;DC</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Mechanical Rm</td>
<td>Relief and Return air dampers should be considered for replacement. Replace pneumatic actuators with electric. Replacing dampers will allow more aggressive scheduling.</td>
<td>P&amp;DC</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Mechanical Rm</td>
<td>Face and Bypass dampers out of tune.</td>
<td>Shawn/Carl</td>
<td>Closed</td>
<td>7/21/2009</td>
</tr>
<tr>
<td>5</td>
<td>Mechanical Rm</td>
<td>Change Face and Bypass pneumatic damper operators with electric.</td>
<td>P&amp;DC</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Mechanical Rm</td>
<td>Door seal on AHU down stream of chilled water coil needs removed and replaced with new. Currently can not open door with out tools to pry door open.(Sticks Closed)</td>
<td></td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Mechanical Rm</td>
<td>Pump 1 and 3 are the pumps for Re-Heat water. Pump 1 disconnect is Off! (Why?)</td>
<td></td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Mechanical Rm</td>
<td>Pump 2 is Hot water for AHU Hot water coil. Disconnect is Off (Why?)</td>
<td></td>
<td>Open</td>
<td></td>
</tr>
</tbody>
</table>
Energy Hawk Team

Questions?
Sustainability Update

Sustainability Triple Bottom Line
Sustainability Update

- 4,100 C&U’s in United States
- 20 M students and staff
- $360 B in spending each year
- $15 – 18 B in new construction each year
- $20 B in operations and energy
- 2% of United States’ carbon footprint

*National Wildlife Federation, 2009*
Sustainability Update

• Communications coordinator - Amy Myers
• Developing web site
• Power down for the holiday promotion
  - Give us your ideas for communication
  - Keep us up-to-date on your activities
  - Let us know how can we connect student research with your needs
Sustainability Update

Recent activities

- Waste sort at IREH
- 350 Day
- Living/Learning Community
- Student garden update
- OS student to Copenhagen
- Earth Month planning
- Sustainable dining efforts
Open Forum

Questions and Comments
Spring Building Coordinators Meeting

The University of Iowa Bioventures Center