

October Minutes

General Updates:

SEAC Week successful

Students to speak in front of Office of Administration + Public Affairs Board of Trustee Committee

- The student co-chairs will have the opportunity to present our efforts

Please review website and make suggestions

- <http://www.marquette.edu/administration/dept/>

Various presentations around campus to build awareness

LED lights on campus

- Parking lot RR (behind Straz Tower)
- Outdoor light (right in-between the Al McGuire Center and the bus stop on Wisconsin and 12th St)
- Blue Light – will update on location
- Office of the Vice President of Administration – half LED

Natural Resources and Utilities: Tuesday October 28, 2008

Members: Mr. Ronald Ripley, Ms. Jackie Gast, Ms. Melissa Lind, Mr. Peter Dombrowski, Dr. Jon Koch, Prof. Alan Madry, Ms. Joan Sommer, Mr. Mike Whittow, Mr. Andrew Seifert

- Mr. Dombrowski mentioned exploring the possibilities of **geothermal** heat on campus
 - Is used as a source of energy for the Aldo Leopold Legacy Center
 - Approximately 225 feet into the earth
 - Cost varies and will depend on size of system and local labor force
 - Mr. Ripley said that the law school will require 12,000 tons of refrigeration
 - The Leopold Center at 12,000 square feet has 19 wells; Eckstein Hall may be up to 200,000 square feet.
- General information about current energy usage on campus
 - Generally look at a cost vs. consumption standpoint
 - Not using competitive measures, just billing the different departments
 - Marquette pays less for primary energy (supplied on campus) than it does for secondary (WE Energies)
 - We are currently unable to measure distribution of chilled water to individual buildings
 - Older buildings are less energy efficient in their HVAC systems
 - Heating is not as bad since radiators directly supply heat to each room (steam heat)
 - Expensive fix
- Measurement
 - Could look at energy usage per square foot
 - Will vary because buildings operate on different schedules
 - Some buildings have their own chillers
 - Will look to measure a small group of buildings in order to set benchmark, best practices
 - Will need to calculate **R-value**

- Operations – look at temperatures
 - This becomes a personal decision and must be looked at closely
 - An individual may prefer temperature A while another may prefer temperature B
 - Look at ways to change behavioral problems with incentives (i.e. gas price and consumption)
 - Technological hurdles – supply more comfort at lower cost
 - We must initiate behavioral change throughout campus
- Advocacy
 - Nothing happens without an advocate
 - Could use working groups, student groups, etc.
 - Develop campus competitions – [Dorm Competition](#)
 - Must find method to measure and benchmark different buildings or departments
 - Could also use for recycling – [Recyclamania](#)
 - University as a sponsor will show our dedication and provide transparency for community (PR opportunity)
 - Must look towards student involvement and initiatives
 - Bring advocacy to students in various forms
 - Funding
 - Get them to want to perform
 - Show positive actions – generate recognition, awards, publications
 - Identifying inexpensive projects that save money
 - Walk the Walk rather than Talk the Talk
 - Library staff have been teaching others how to switch computer to sleep mode (typical desktop will only use 1-6 watts in sleep mode)
 - Some professors have students do homework and quizzes on the back of scratch paper
 - Professors who recommend/allow double sided printing
 - We must look at measurement of buildings but must also address the behavioral side
 - Find student groups/organizations willing to spearhead these movements

Supplier/Vendor: Wednesday October 29, 2008

Members: Mr. Todd Vicker, Mr. Oliver Vranjkovic, Ms. Ali Myszewski, Ms. Mary Jo Goodwin, Dr. Keith Bauer, Mr. Jay Kirk, Dr. John Schmitt, Ms. Jenny Alexander, Mr. Craig Meyer, Mr. Mike Whittow, Mr. Andrew Seifert

- Green terms
 - See attachment – Wikipedia-Green terms
 - Do people have the ability to track these efficiently?
- On Campus
 - Will spend time looking at dining services as well as purchasing practices
 - Members will generate a list of possible ideas that could be implemented on campus – if anyone else would like to supply a list please feel free to do so
- Source Materials – See Wikipedia – Green terms1 attachment

- Surveys – [National Wildlife Federation](#), [Sustainable Endowments Institute](#), [Princeton Review](#)
- [AASHE](#) – Association for the Advancement of Sustainability in Higher Education
- GENERATE WRITTEN LIST OF BEST PRACTICES – Will follow shortly

Recycling: Wednesday October 29, 2008

Members: Mr. Jerry Kohn, Mr. Casey Lembke, Mr. Don Kynaston, Mr. Michael Cosgrove, Ms. Patricia Berge, Dr. Robert Griffin, Dr. Jane Peterson, Mr. Mike Whittow, Mr. Andrew Seifert

- Discussion of outdoor recycling
 - Need more
 - There were several outdoor recycling containers in the past but now only one left (outside Bus Ad)
 - Larger recycling bin models may stand out more
 - Should be attractive and permanent
 - Location suggestions – please feel free to suggest possible locations
 - Outside Union
 - Quadrangle – Lalumiere, Raynor, Wehr Chemistry
 - Have not been successful in past at special events
 - Possible pilot study – perfect opportunity for student involvement (market study?)
 - Education
 - Mr. Lembke said some students believe we don't recycle
 - Could add additional signs in Residence Halls
 - Need to have students perceive these efforts as the social norm
 - People must have a sense of the impact of trashing vs. recycling
 - Film documentary project – SEAC
 - Work on social aspects – could be another student project
 - Cross focus groups for incoming class – have book focus on sustainability
 - Possible recycled section in Spirit Shop – they currently support the Worker Rights Consortium - [WRC](#)

New Buildings: Thursday October 30, 2008

Members: Mr. Michael Jahner, Ms. Sadie Tuescher, Ms. Katharine Sanford, Mr. William O'Brien, Ms. Carol Dufek, Fr. Michael Class, Dr. Janet Krejci, Dr. Christopher Stockdale, Mr. Mike Whittow, Mr. Andrew Seifert

- [LEED Certification](#)
 - Seeking LEED Certification vs. building to LEED standards
 - There is a cost associated with LEED Certification - USGBC
 - Some groups reallocate this cost into making the building more sustainable – [Urban Ecology Center](#)

- Is a “HOT” subject among students who are choosing universities
 - LEED is more visible than building to standards
 - Is often published locally and nationally (AASHE)
 - A LEED Plaque is also given
 - Will create a general summary of LEED so that everyone can understand its implications
- Materials for Buildings
 - Currently only reviewing concrete suppliers for the new buildings
 - In the future will research interior materials
 - Fire codes dictate what can and cannot be used – must look into all provisions before determining end materials
 - Rapidly renewable materials – trees, bamboo, cork, etc.
 - Not always best choice because life cycle is shorter and thus needs to be replaced 3 to 4 times more often than other materials
 - May still work in some applications – must be looked at carefully
 - Determine materials that pay for themselves during the life of the buildings
 - May have higher initial cost but will save more in the long run
- Building additions
 - Wind turbines – some examples [Marquiss Turbine](#), [Aeritecture Turbine](#)
 - Must account for possibility of falling
 - Creates vacuum behind blades that may harm certain species – i.e. bats
 - More evident with commercial grade turbines
 - Most efficient at higher elevations - [optimal efficiency](#) - see also <http://firstlook.3tiergroup.com/>
 - [Green Roofs](#)
 - More expensive than traditional roofs
 - Potential problem with weight load on certain roofs
 - Possibility of generating mold
 - Diminishes [Heat Island](#) effect
 - Soaks up rain water which may otherwise create pollution or overflows
 - Can be created to support many different forms of wildlife (even trees)
 - Allows for greater biodiversity in an urban setting
 - UWM is currently building one on [Sandburg Hall](#)
 - Geothermal
 - Not necessarily a renewable resource in that it soaks up underground heat in the winter which may be needed to sustain that particular habitat
 - Vice versa in summer
- [LED](#) lighting discussion – See above locations
 - Test project will be conducted in Parking Structure 2 – bottom level
 - Future locations could include more visible areas such as the AMU
 - High initial cost – as the technology advances we will see this price decrease
 - Must check to see if they are applicable
 - Fr. Class mentioned that they can cause migraines for certain people – intense white light, projects different part of the color spectrum
 - LED lights do have a significantly longer lifecycle than CFLs and they are mercury-free

Common theme among all groups is that we need to address behavioral issues and educate or change perceptions. This applies to all facets of the universities. We also see many opportunities for students to get more involved.