Wednesday, September 20th, 4:00 pm

309 ACES Library

**Water/Stormwater SWATeam Meeting**

Present: John Berens, Rabin Bhattarai, Keith Erickson, Lauren Excell, Arthur Schmidt, Colleen Williams

I. Review of Dates/Deadlines

A. Campus Sustainability Celebration on October 25th, 4-6 pm at Alice Campbell Alumni Center

B. Mid-November: first iWG meeting- aim to have ideas together before then

C. Water/Stormwater and ALUFS would like to meet around mid-October

II. Review of 2016 iCAP Presentation

A. Objective I: Granular Water Use Data, including water quantity and quality

1. Idea to link Water consumption data to Energy Dashboard

a. Mike Marquissee keeps the Energy Dashboard

b. The university takes water in at five points, all of whose water flow,

pressure, pH, and chlorine are measured- would be useful information on the

Energy Dashboard

c. The water data would refer to the whole campus, while the Energy

Dashboard reports usage for buildings specifically

2. Business Instructional Facility

a. Received funding for meter to record potential for the building to use greywater

b. State requirements to treat water for reuse provide limitation to begin

actual reuse of water

3. Action Items

a. Update current graphs with FY16, including pages 2-5 of presentation:

“Water Consumption,” “Illinois Gallons per capita,” “Illinois Gallons per sq ft”

i. requires water use data and campus human population

b. Recommend a greywater plumbing system to be built into the future

additions of the Hydrosystems Laboratory and Mechanical Engineering

Building if not already planned

B. Objective II: Improve Efficiency of Cooling Towers

1. Five chilled water plants on campus

2. Acid treatment of chilled water is considered high-risk, can damage piping

3. Action Items

a. Update information on water usage

C. Objective III: Perform Water Audit

1. Rabin Bhattarai has a student looking at buildings this semester, working with

Morgan White to find suitable locations- ex. The Disabilities center on Oak Street

a. Suggestion to add NSRC as possible part of study

D. Objective IV: Inventory and Benchmark Campus’ Existing landscape Performance

1. A landscape architecture student, Scott Douglas, studied rainwater catchments on

parts of the campus, but the whole

2. It was suggested to the CEE398 class that the students record needed data

3. Question on what skills are needed to complete data gathering- one would need to

work with GIS; Arthur Schmidt has a student working with GIS but needs resources

from campus for the project

4. Capstone projects for the Sustainability minor are not related specifically to campus

sustainability

E. Objective V: Four Pilot Projects to Showcase the Potential of Water Reuse

1. State plumbing code still a barrier to implement reuse plans; water is relatively

inexpensive in Illinois

a. Ex. Emory University’s (in Atlanta) greywater system

2. F&S has hired a consultant to look at using greywater as process water

F: Objective VI: Investigate Water Quality Impacts of Stormwater Runoff, Potential Reduction

1. Need data to make any plans to reduce discharge

2. In 2016, students studied permeable pavement heat island effects, not water runoff

(no statistical significance)

3. A proposal for students to measure pollutant runoff was not approved for funding in

2016-17

i. Action Item: Have Keith Erickson email the rest of the team the information

about the proposal

III. 2017-18 Charge

A. Prepare for annual evaluation for October 25th

B. EPA Rainwater Challenge for campuses to propose projects to reduce water runoff; this

team could make suggestions toward this, talk more next meeting

Next meeting: Wednesday, September 27, location TBA