

## Minutes

November 16, 2015, 10:30 – 12:00  
Administrative Services Building III, Room 301

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### Attendees

Attendees: Traci Rider, Carla Davis, Rebekah Dunstan, Walt Robinson, Lani St. Hill, Meghan Lobsinger, Lindsay Batchelor, Tracy Dixon, Paul McConocha, Sean Fokes, Bill Winner, Mike Harwood, Austin Bowman, Claudia Powell, Keith Smith, Nate Pedder, Debbie Currie, Antony Wambui, Dick Bernhardt, Jeff Hightower, Jack Colby

### Welcome – Bill Winner

Final fall meeting of the CEST, Introductions

### Meet a student leader – Austin Bowman, Student Sustainability Resource Coalition

Focus of study is on sustainability in design. Headed up the creation of the Student Sustainability Resource Coalition (SSRC), modeled after University of California – Berkeley. Experienced Berkeley's program while on the EcoVillage SPUDS (Sustainable Planning and Urban Design Sightseers) trip over spring break. SSRC is a student group to coordinate sustainability student organizations on campus or any student group that has a stake in sustainability. This will be a coordinated effort with programming that creates face time with administration. Started group with Andrew Harrell from Eco Village, and include a diverse leadership including engineers, Park Scholars, Caldwell Scholars, and the sustainability co-chair for student government. The chair will rotate each semester. SSR tried to survey all 600 student clubs but hit some challenges with survey distribution. Got good interest. Considering a speaker series to lessen perceived distance between students and faculty.  
Walt: suggested planning a family event on weekend as a way to encourage faculty to come to speaker events  
Bill: fireside talks are an informal way for Environmental Science faculty to talk with students

### Present remaining year 5 [tactics](#) updates

Academics & Research – Bill Winner

1. Scholarship for students
  - Planning team for Environmental Science First Year (ESFY) Program. First year programs already exist for Engineering and Life Sciences. For these two programs if students meet the requirements they are guaranteed entrance into those degrees. The ESFY program will help students take core courses and then decide which specific discipline in which they will major. The target date for starting the program is Fall 2017. The planning process is still early with lots of questions in process.
  - Inaugural Semester at CMAST this spring will host 19 students at CMAST, co-located at Carteret Community College. Students will take classes and interface with researchers. The Duke Marine Lab is used for housing and dining.
  - New Environmental Science course, ES 150 Water and the Environment, starting this spring. This is the only course on this topic and will include physical, life and social sciences. It is a GEP course, global knowledge.
2. Campus as a Living Lab
  - Tracking internships in Environmental Sciences program and Pack Link as a resource
3. Research
  - Energy Council will have a searchable web site for energy expert. Pursing the Sustainability Consortium through the Academic Sustainability Leaders and the Business Sustainability Collaborative

### Sustainability Council Update – Jack Colby

Populating the steering team. Will begin having meetings. Working on job descriptions for steering committee and working groups. First task is to work on updating the Sustainability Strategic Plan (SSP). Building a road map for what we want to use for SSP. Thinking through campus input and how to do that. Aim is to create content during the spring 2016 semester, write during summer, have full draft in fall 2016 to vet with final product in spring 2017.

## **Waste Characterization**

Bill: Analis had a sick family member and is unable to make this meeting. We will reschedule this part of the agenda for a future meeting. The waste data being utilized by Drs. Barlaz and Decarolis to develop waste management strategies with students. Having the waste characterization results is good timing given the SSP and thinking about what the next 5 year goal should be. Great instructional value of this project.

Jack: Example of Harrelson Hall being deconstructed and how to recycle as much as possible, potentially 90% of non-hazardous waste, time lapse photos/video to be used.

## **Annual Report Major Accomplishments – Carla Davis**

See presentation

Academics and Research: LEED Lab, Facilities had 20 real world connections, a lot of sustainability research, new partnership with Office of Faculty Development

Community and Culture: Farm Feast, 63% of students said sustainability was part of decision to attend NC State, Sustainability Fund: \$117,000 in grants awarded, 15 sustainable workplaces and 33 events certified

Energy and Water: Recommissioning saved \$200,000, solar, residence hall updates, energy dashboard, summer energy savings

Green Development: CVM garden and bee hives, Wolf Ridge and Cates LEED Certified, 650 sustainability standard projects, Stewards created plant walks

Purchasing and Waste Reduction: big belly solar, plastic bag work, 50% diversion rate, Talley composting, WE Recycle, pizza box composting, 27% local food purchases

Transportation: bike lanes on Varsity Drive, alternative fleet, 3 million Wolfine riders  
Awards and Honors

## **Discussion of opportunities for sustainable buildings – Jack Colby**

Engineering Building Oval and Plant Sciences - collaboration of funding from bond referendum. How can we be more aggressive in terms of these buildings' sustainability? Might be ready to challenge the norms/LEED Silver. Examples: Lab systems/air exchange, building controls have associated with HVAC but not lighting, fire alarms and controls are a separate system and need to integrate all these systems. Smart grid at Centennial is to be a model and learn to control electrical demand. Will have to challenge state construction policies. Also have to convince COE and CALS that we can do these items within budget. Have to get the bond passed. Everyone vote. Have 1 million in 2016 and 1 million in 2017 for planning for EB Oval, not too early to begin thinking and strategizing on these projects.

Walt: low student turn out for these type of elections - big opportunity. Question about alternative energy generation and storage capabilities.

Jack: Opportunities through smart grid, thermal storage tank at Cates Plant, also co-generation as a part of smart grid

Bill: Is there a stretch goal to get off the grid? How many co-generation facilities would it take to be off the grid?

Jack: No, but our focus is on creating resiliency through smart grid. Would take a lot more cogeneration to get off the grid.

## **CEST logistics – Tracy Dixon**

- Confirm continuation of meeting time for spring
- Cancelling Dec. 14th meeting and January
- Asking for volunteers to help plan an end of 5 year celebration to potentially align with the Green Brick Awards

## **Around the table - Jack Colby**

Meghan: current student housing choices and new students applying

Sean: Tri Towers energy competition and LEED Lab course

[sustainability.ncsu.edu/team](http://sustainability.ncsu.edu/team)

Lani: Composting in Carter Finley volunteers needed

Claudia: Strategic Energy and Water report published and available

Nate: Sustainability Fund RFP is open today and deadline is February, graduating and moving into wind energy in Charlottesville

Jack: Funding a position for engineer to bring enterprise automation information to be coordinated. Holiday setback is approaching but don't need to wait for holiday to do this. Can implement setbacks at Thanksgiving too. Aiming for 3 million total savings over life of program.

Transportation: Expanding Wolfline Centennial bus to 10 pm. Pullen will cross Western and bring it to Centennial Campus and will be a complete street. Opportunities to advance alternative transportation.

Traci: LEED Lab. Towards Sustainability course in spring is an interdisciplinary offering.

Rebekah: Food Recovery Network chapter established. Two recoveries this semester and weekly next semester.

Stewards to Chancellor Liaison meeting about plastic bags and working on a phase out program.

Keith: Hoop houses are almost complete at the Agroecology Farm

### **Information Items**

- Today is NC State's America Recycles Day. Come see the Stewards from noon–3 pm at Talley
- Planning for Earth Month 2016 has started with chair, Lada Kochtcheeva. The theme will be wellness of people and the planet. University Dining/Campus Enterprises is sponsoring the 2016 Earth Month.
- Congratulations to Bowen Hall for winning the October Tri-Towers energy & water challenge by reducing energy by 33% & water by 16%. The estimated cost avoided is \$8100.
- The Winter Holiday Energy Saving Initiative is from Dec. 24 – Jan. 3
- All sustainability-related events can be found here: <http://sustainability.ncsu.edu/get-involved/events/>

**Next meeting:** January TBD

(Standing meetings are 3<sup>rd</sup> Monday of the month from 10:30-12:00)

**Adjourn**