

## Minutes

October 20, 2015, 10:30 – 12:00  
Administrative Services Building III, Room 301

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### Attendees

Analís Fulghum, Rebekah Dunstan, Tom Skolnicki, Blain Woods, Stephen Kelley, Dick Bernhard, Jack Colby, Jeff Hightower, Mark Michaelson, Carla Davis, Chris Dunham, Tracy Dixon, Lisa Maune, Nate Pedder, Paul McConocha, Claudia Powell, Cynelsa Broderick, Antony Wambui, Liz Bowen, Mike Harwood, Meghan Lobsinger, Debbie Curry, Ashley (Environmental Health & Public Safety)

### 10:30 Welcome – Jack Colby

Fifth and final year of CEST Sustainability Strategic Plan  
Introductions

### 10:35 Present year 5 tactics – Working Group Chairs

5-7 minutes per presenter

[Link](#) to tactics

- Waste Reduction – Analís Fulghum
  - Year 4 was about evaluation. Waste Reduction and Recycling commissioned a Waste characterization study and composting feasibility study, and year 5 is about developing plans. This year, we are developing a zero waste plan for each of our partners. Composting feasibility study was a good first step to exploring composting “in house” and working with Grounds Management to bring compost to campus. We need feedback from campus and the CEST. Walkway recycling bin placements continue to be on the list. There are 8-10 Solar Bellies on campus now. We want to analyze solar compactor units before expanding further, but expect that this will be the way forward. We are getting good data from trucks and look forward to reaching out to campus partners about truck data for education. We are continuing pre and post consumer recycling education efforts. There is the opportunity to use the waste characterization study to consider setting new goals, currently we are at 50 percent waste diversion, and we currently have a stretch goal of 65%.
- Transportation – Antony Wambui
  - The Wolfline contract expires in 2017, and currently the Purchasing Department is reviewing the RFP. We have been monitoring the usage of the electric vehicle (EV) charging stations, and we hope to use solar energy to power EV charging stations. We have an employee Transportation Demand Management position focusing on increasing alternative modes of transportation. The parking policies make it easier for people to park on campus. Evaluating influence of cost of parking permits and policies. A study was performed last year on the feasibility of a Park and Ride at the State Farmer’s Market. The City of Raleigh is not fully supportive of the site so there may be an alternative site considered at Dorothea Dix. This is consistent with Transportation’s mission to push parking to the campus perimeter. There is also a site on Fountain Lane off Hillsborough Street that is a source of more new parking on the periphery. This is also a way to increase Wolfline ridership. Wolfline ridership is around 3 million riders per year, which is close to the ridership of the GoRaleigh network, which is much larger geographically. NC State Transportation is required to report every month. We will likely

need to add more buses. There are challenges with integrating transportation with fleet, but we need to take a close look at fleet as well.

- Purchasing – Blain Woods
  - In Purchasing, year 4 tactics are rolling into year 5. We are increasing number of vendors on Marketplace and we rely on the vendors to highlight the sustainable items for our staff and faculty to purchase. Online/electronic procurement is the focus and boosts efficiency. At this point, we have close to 50 vendors and we try to meet with each one of them as they turn in annual reports, which are to include sustainability. We have seen a huge reduction in the amount of paper that campus is buying. We are looking for new and other ideas. We are adding language to bid documents, including vendor responsible for removing their own waste. We see cost savings benefit from paper reduction.
  
- Land Use –Tom Skolnicki
  - Strategy 1- Tactic for this year is to update Centennial Campus Development and Design guidelines and we are working on that. Strategy 7 - Tagging people to space. We are working on administrative space and then going to work on research space. We now have funding to start classroom utilization. Strategy 8 - We are contributing to the reduction of single occupancy vehicle transportation by providing bike and pedestrian projects. We are helping to improve the network of all-campus paths and connector paths on North and Central Campus precincts. Strategy 9 - Increase open space on campus. Case commons project will be connected to open space and contribute to Cates Avenue Campus Master Plan. We are ensuring that the Engineering Building Oval project (if bond referendum passes) will complete final touches of middle terrace of Oval. Strategy 10 - Tactic increases number of students living on campus through the Case Commons project. Strategy 11 - Creating storm water master plan. We have to carry this tactic forward to start storm water action plan. We started with documenting best management practice (BMP) assets, but then want to start planning. Strategy 12 - Enhances the natural area by building a bridge across Lake Raleigh. Strategy 13 - Tree Reforestation Plan for Lampe Drive and submit a tree conservation plan for Greek Village. Also, we need to develop a land management plan for Lake Raleigh Woods.
  
- Energy & Water – Paul McConocha
  - With Sustainability Office and the Office of the Registrar, this summer we worked to schedule classroom space. We currently have \$80 million in energy performance contracts. EPC#4 will bring Combined Heat and Power (CHP) to Centennial Campus. Building Maintenance & Operations retro commissioning team has had tremendous return on investment. We are pursuing the Winter Energy Savings initiative again. We are into the planning stages of LED site lighting. On the water side, a big project, the reuse water line is coming to campus, and Utilities and Engineering will be charged with metering, billing, and monitoring. Reuse water is half the cost of City of Raleigh potable water. Irrigation technologies are allowing us to water plants just when they need to be watered. Sky Spark vendor is trying to apply smart building automation systems. Energy dashboards will be sent out to interested parties. Natural gas procurement initiative allows us to purchase futures into 2019 - this is the time to buy to lock in prices. In partnership with Duke Energy Progress, we have 200 accounts with the utility that should be right rate class size for the use. The rate escalation is not projected to decrease at any time.
  
- Community & Culture – Tracy Dixon

- The Sustainability Policy and Sustainability SOP were developed, but more education is needed. Facilities was educated, but receipts supported groups need more education and outreach. We hope to get the STARS submittal out before winter break. We are working on quantifying the benefits of the Stewards project with Office of Assessment, which can help pave the way for additional financial resources in the door in the future. Also in the peer-to-peer education area, Cynelsa is looking at diversity and sustainability. This way, we can make sure we are extending sustainability and Change Your State into diversity programs on campus. A staff peer-to-peer group might take place this year, and we will support that. NC State is known for its sustainability programs, and we hope to create more Raleigh community involvement in the future. We want to make sure that large landmark events are sustainable. We plan to continue to promote Green Brick Awards as a stand alone event. And, the details are not planned, but we would like to have a celebration for CEST.
- Buildings – Lisa Maune
  - Future successes will be in working between the working groups, in synergy, which is consistent with the Sustainability Council. The sustainability vision statements are included in each project with a planning phase, and we also have a tiered sustainability project requirements which will be housed on the Sustainability website. We hope to highlight effective sustainability practices on the Capital Projects Management/Design and Construction Services/Repair and Renovation websites, based on the amount of traffic to those sites. We continue to work with Centennial Campus Development Office to integrate sustainability goals into ground lease template. We want to evaluate exceeded LEED Silver, and we are looking at higher levels of LEED. We also are trying to add shower facility to Administrative Building III to allow for bike riders to shower and we think that we should develop a standard for this. We would like to see priority given for holistic projects, and we are seeking funding for Ricks Hall so that we can finish the entire building. We would like to do a pilot project for Low Impact Development storm water capture on site. Staff is getting trained on LEED version 4. We are working with transportation to develop shower standards, personal belonging lockers, and bike lockers. In the arena of sustainable operation of buildings and grounds, the LEED Lab course is participating with new partners in Campus Life, Grounds, and others. Point out that each neighborhood would need shower facilities not every building.
- Dining – Keith Smith/Chris Dunham
  - Dining is building hoop houses. The My Roots campaign is reaching out to student groups in Dining Hall, and Waste Reduction will have more training for composting. Dining is evaluating recyclable and compostable containers. We are working with the Poole College of Management to help them to achieve some of their goals at Port City Java in Nelson Hall.
- Academics & Research – Nov. meeting

### **11:35 Energy & Water update – Claudia Powell**

- See presentation
- For the 2007 session law, NC State was required to reduce energy consumption by 30 percent and water by 20 percent. NC State achieved the water reduction target quickly and created our own goal of 50 percent reduction by 2015. The university is now at a 28 energy reduction and has met the 50 percent water reduction goal. We are keeping the momentum going. Centennial Campus reuse line will be using for cooling tower makeup water, but there are several others. 30 million gallons of reuse water will be used at half the cost of potable water. We are hiring consultant to evaluate water efficiency on North and Central campus. For the roadway LED fixtures,

we are looking at a Centennial Biomedical Campus pilot study. Summer energy savings initiative with Sustainability Office and the Registrar saw \$900 per day in cost avoidance. Proceed and expand this in future summers.

#### **11:45 Around the table – Jack Colby**

- Jack - There are discussions as part of the Energy Summit on whether we should raise the energy target to 40 percent. If this does not happen through the UNC System, we should consider this target for NC State.
- Rebekah – The Stewards received a Sustainability Fund grant and, with University Housing, installed three solar-powered umbrellas outside Tucker and Owen as a pilot.
- Analis – Again promoting pumpkin composting at the pizza box composting locations from Halloween until Thanksgiving. After receiving a Sustainability Fund grant, Rhonda Sherman hired a composting concierge intern, Garnett Bullock, to support the Lake Wheeler compost demonstration site. Lauren McKinnis left NC State and that outreach position is now posted.
- Nate – Sustainability Fund application will go live earlier than in years past, in November and will be due in February. Solar curve went up on Centennial Campus. Bio-Blitz is a wildlife inventory/ camera trap on campus. Showed the Solar Curve video.

#### **Information Items**

- Steve Kelley and Jack Colby, co-chairs for the Sustainability Council are establishing the Council appointments and drafting the Sustainability Strategic Plan process. Information will be presented to the CEST at a later date.
- Michael Wooley-Ousdahl accepted a position with Google to manage their transportation operations in Mountain View, CA. His last day at NC State was Oct. 16.
- The 2015 [Summer Energy Savings Initiative](#) avoided ~\$900/day in energy costs.
- The Annual Sustainability Report will be published this month.
- All sustainability-related events can be found here: <http://sustainability.ncsu.edu/get-involved/events/>

**Next meeting:** Nov. 16, 2015

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

**12:00 Adjourn**