**Minutes**October 15, 10:30 – 12:00

Administrative Services III, Room 301

**C**ampus   
**E**nvironmental   
**S**ustainability   
**T**eam

**Attendance**Danesha Seth Carley, Lisa Maune, Matt Baker, Ryan Kilgore, Carrie Rogers, Liz Bowen, Analis Fulghum, Walt Robinson, Robert Bradley, Paul McConocha, Tracy Dixon, Bill Winner, Traci Rose Rider, Claudia Powell, Dick Bernhard, Rebekah Dunstan, Scott Jennings, Sharon Loosman, Jeff Hightower, Mike Kapp, Kurt Saenger-Heyl, Mike Harwood, Jack Colby, Carla Davis, Jason Endries, Brian Iezzi

**Introductions**Around the table introductions

**Sustainability in the College of Agriculture and Life Sciences - Dr. Danesha Seth Carley**Received PhD from NC State

Joint faculty in horticulture and crop science

Took on new role of coordinator of CALS sustainability programs two years ago

Accomplishments over last 2 years:

1. Executive education course – workshops on agricultural sustainability for industry. Work with CEOs and major corporations .
2. Sustainable Urban Greenspace Initiative – ongoing education at the Lonnie Poole Golf Course. Only second course in country to receive Audubon certified status.
3. Pollinator Health Initiative – held one educational event, worked with Sustainability Office to get additional hives on campus, work with youth for education
4. Sharing information about CALS and what the program does:
   1. List of 350 faculty in CALS and who is working in what in sustainability terms
   2. Various educational brochures and resources online
   3. Partner with student groups
      1. Sponsored Shack A Thon group – sustainability shack. Will be displayed at NC Museum of Art on temporary exhibit
      2. Sending students to sustainable agriculture conference
      3. Partner with other campus sustainability offices and coordinators

**The benefits of LEED investment – Liz Bowen (see presentation)**

Asked each person to write down what he/she thinks are some benefits of LEED

Looked at hard costs (equipment) and soft costs (contract data, administrative pieces) above and beyond programmatic baseline

Soft costs go down over time

Hard costs average 1% of construction cost (based on 3 complete projects)

More details on and additional percent cost for 4H Conference Center, Sullivan Shops III, Student Health Center Addition, Cates Utility Plant, Hunt Library, Poole Clubhouse, Yarbrough Steam Plant, Wolf Ridge, Talley Student Center

Simple payback (back of the envelope) for energy and water savings

Benefits from the CEST, reinforced by Liz

* Indoor air quality (greater productivity – cites specific gains, lower asthma rates)
* Accountability for energy and water savings, meet SB668 (slide about projected energy and water savings for 4H, Student Health, Sullivan Shops, Hunt)
* Using the infrastructure to teach (learning tool/living lab)
* Admissions (current and perspective students have an expectation of sustainability)
* Overall accountability (value of third party input and review)

Used projected energy and water savings from energy modeling for graphs shown. Currently looking at actual data (measurement and verification, M&V) and designing a process by which to review this data.

Questions/comments

* Understanding limitations of energy models and how that translates to the M&V process
* History of maintainability of LEED projects in resource constrained environments? Don’t have adequate maintenance budget for buildings but if going to build, build those facilities that consume less.
* Other approached than LEED that produce higher level of benefit using more simplified controls. There are multiple philosophies. For example focusing cost on building envelope and less mechanical.
* Presented to Wolf Ridge RAs about features of their building. Students took pride of their LEED building.

To get a copy of the paper accompanying this presentation, contact Liz Bowen

**NC State Stewards – Jason Endries, Ryan Kilgore and Brian Iezzi (see presentation)**

Inaugural year and conduct peer to peer student education.

Goal of awareness and behavior change.

What the Stewards have been doing:

* Events at Wolfpack Welcome Week
* Shak A Thon
* Food waste audit in Fountain Dining Hall
* Fume hood competition in Dabney (looking at how much energy savings if all sashes shut properly)
* Alternative Fuel Vehicle Showcase
* Renewable Energy Mythbusters – 30 second clips (coincide with Change Your State Energy Action Month) – test format to see if this is effective in short time frame. Will have in digital rooms of libraries.

Goals for academic year

* Reduce single use plastics
  + Now: programs for residence halls , showing films/documentaries, interactive games
  + Future: plastic bag recycling program, reusable bags to students, policy change to eliminate plastic bags

Questions/comments:

Working with other student groups? Working with Park Scholars SplashH20 on reducing plastic bottles, Purchasing on front end elimination of plastics, coordinating with Plastic Propaganda campaign

Waste Reduction and Recycling is a resource

Possibly get some of the mythbusters at the Museum of Natural Sciences Nature Research Center. Dr. Meg Lowman can be a contact.

Portland, Oregon and Outer Banks have banned plastic bags

**Conversation: campus waste reduction and composting – Analis Fulghum (see presentation)** Revamped the office because had a lot of vacant positions

Strategic plan

1. Advisory Board
   1. Creating advisory board – some members confirmed
   2. Thoughts on who should be on the board?
2. Benchmarking
   1. Looked at what peers doing across key performance indicators
   2. Are there others we should compare ourselves to?
3. Analysis of program effectiveness
   1. Key performance indicators to take to advisory board
   2. Look at existing programs and looking at how to best utilize time

New system to weigh and measure campus waste and recycling

Long term effort of getting composting facility operational on campus (includes Horticulture Field Labs, Dairy Farm, Yard Waste Facility, University Dining, Composting Council)

Comments/questions:

* How much of diversion rate is reused? Most of this is through Surplus but is estimate. Beginning to weigh and measure on a weekly basis.
* Is there a reduction in office paper (photo copiers, newspapers, etc)? Paper has gone down and waste has stayed level. Purchasing and OIT interested in starting with paperless on the front end for processes like travel, vouchers, purchase orders, etc. Trying to encourage double sided/duplex printing and centralized printing. Need support and resources for a more coordinated effort.

**Announcements**

Sharon – Purchasing expo on Nov. 13, 1-4 at McKimmon. There will be a break out session on green initiatives.

Jack – Sustainability Policy moving through to Board of Trustees. Jack and Bill will be meeting with Provost Arden and Vice Chancellor Leffler on behalf of the CEST. There should be an opportunity to move ahead with the Standard Operating Procedures while pursing policy approval.

Carla – Oct. 23 at 6 pm free screening of Chasing Ice.

Bill – Eco Village’s inaugural year going well and thriving.

**Next meeting: November 19, 2013**

Standing meetings are Tuesdays at 10:30 every 4-6 weeks