SUSTAINABLE UCA
A Proactive Approach to a Greener University

Kevin Carter
The purpose of this presentation is to inform the UCA community about what the Physical Plant is doing to develop and sustain a greener university. This is achieved through a comprehensive recycling program, energy conservation practices, and the use of environmentally friendly chemicals.
LEED CERTIFIED BUILDINGS

Bear Hall
Completed 2012
LEED Silver

HPER Center Expansion
Completion Date October 2014
WHAT IS LEED CERTIFICATION?

LEED, or Leadership in Energy & Environmental Design, is a green building certification program that recognizes best-in-class building strategies and practices. To receive LEED certification, building projects satisfy prerequisites and earn points to achieve different levels of certification.
Low Flow Heads

Low flow sprinkler heads decrease the water flow preventing water run-off.

Rainfall Sensors

Rainfall Sensors shut off irrigation when it is raining to prevent water from being wasted.
VOC, or Volatile Organic Compound, are organic chemicals that have a high vapor pressure at ordinary room temperature.

Low VOC paints contain reduced levels of volatile organic compounds (VOCs), which emit smog-producing pollutants into the air.

UCA is committed to using only Sherwin Williams Harmony paint for interior walls, which contains no VOCs and low odor.

As technology in the painting world advances, UCA will continue to pursue using paints that are environmentally friendly as well as safer for occupants and painters.
An occupancy sensor is a lighting control device that detects occupancy of a space by people and turns the lights on or off automatically, using infrared or ultrasonic technology.

The use of occupancy sensors on the UCA campus help to reduce energy consumption.
What is Green Seal Certification?
- Green Seal Certification is a process that ensures that a product meets rigorous performance, health, and environmental criteria.

4 of the everyday cleaning chemicals that the UCA custodial staff uses are Green Seal Certified.
Low Impact Development (LID) is an approach to land development that works with nature to manage storm water as close to its source as possible.

UCA has created a Low Impact Development just south of Bear Hall which incorporates bioswales with drought tolerant vegetation to absorb water before reaching the storm drains.
LOW IMPACT DEVELOPMENT
UCA participates in the recycling of many different materials. Items recycled include:

- Scrap metal
- Fluorescent light bulbs
- Batteries
- Used oil from university vehicles
- Cardboard
- Paper
- Plastic
- Aluminum
SCRAP METAL

- UCA generates a large amount of scrap metal annually, making recycling it very important.

- Scrap metal is placed in a roll-off dumpster south of the Physical Plant, where it is picked up by a vendor and sold to a scrap yard.

- Scrap metal at UCA usually consists of: broken metal shelving and furniture, empty refrigerant tanks, and metal edging.

- Scrap metal recycling generates roughly $300- $600 a month in revenue.
**SCRAP METAL**

**AUTHORIZED SCRAP METAL ONLY**

Do Not Dump Unauthorized Material in this Unit

Call: 501-205-9467 or 501-733-3495

FOR AUTHORIZATION

**SCRAP METAL**

Materials Not Acceptable

- Tables, Desks, Chairs, Shelves etc.
- That are not composed of all metal
- Televisions, Microwaves, or Computer Monitors
- Trash, Wood, Plastic, Rubber, Concrete, Tire
- Wires, Rope, Cores, Guy Wire, Linen not to a 3 Foot Length
- Materials containing Oily, PCB Containing, or Asbestos
- Grease Stains, Oil, Freon Filled Cylinders, and equipment with Un-spayed Fluids
- Wire, Baggage, Glass, Sheet, UD, and Preparo

Contact Physical Plant Grounds Dept. for Complete List of Non-Acceptable Materials
**FLUORESCENT LIGHT BULBS**

- Fluorescent light bulbs contain mercury, and can be very harmful to the environment if not disposed of properly.
- The Physical Plant boxes up burned out bulbs and ships them to an off site recycling center.
Used Motor Oil

- Motor pool at the Physical Plant recycles all used oil from university vehicles.
- UCA recycles approximately 1000 gallons of motor oil a year.
- Used oil is stored in a large 500 gallon tank and picked up twice a year by a recycling specialist.
Cardboard is collected at the Student Center as well as Christian Cafeteria due to the high volume of boxes shipped in daily.

Cardboard is picked up 3 times a week at these locations and brought to the Physical Plant where it is bailed in a hydraulic bailer.

UCA recycles 2200 pounds of cardboard a week on average.

Cardboard bails are sold to a vendor who recycles them.
UCA’s recycling program is comingled as opposed to being source separated.

Comingled means paper, plastic, and aluminum can be mixed together in the same container.

Conway Sanitation picks up our recyclables and segregates them at their recycling facility.

Recycling bins can be found campus wide indoors and outdoors. Look for containers with the green bags.
UCA participates annually in a nationwide recycling competition called RecycleMania.

RecycleMania is a friendly competition and benchmarking tool for college and university recycling programs to promote waste reduction activities to their campus communities. Over an 8-week period each spring, colleges across the United States and Canada report the amount of recycling and trash collected each week and are in turn ranked in various categories based on who recycles the most on a per capita basis, as well as which schools have the best recycling rate as a percentage of total waste and which schools generate the least amount of combined trash and recycling. With each week’s updated ranking, participating schools follow their performance against other colleges and use the results to rally their campus to reduce and recycle more.
CONTACT INFORMATION

- For questions regarding recycling or custodial chemicals, contact Adam Hensley at 514-4302.
- For questions regarding lighting and energy consumption, contact Michelle Ellington at 450-3610.
- For questions regarding hazardous waste disposal, contact Tim Decker at 852-2323.