



UNCW Sustainability Committee

www.uncw.edu/sustainability

2007-2008 Annual Report

Introduction

Sustainability initiatives formally began at UNCW in 1999. An executive order by Governor James Hunt required all state agencies to consider more sustainable practices. In the past two years, however, starting with a sustainability ad hoc committee in 2006-2007, the initiative has taken on new momentum. While still in its grassroots stage at UNCW, sustainable initiatives continue to grow and flourish, with more and more students becoming actively engaged. To understand its far reaching implications, and how it permeates so much of the UNCW community, we must remember the definition of sustainability: sustainability is the concept of meeting the needs of the present without compromising the ability of future generations to meet their needs. It is progress toward a sustainable economy, society and environment (environment, equity and economy). In order to bring UNCW into the sustainable future, a permanent UNCW Sustainability Committee was formed to promote and facilitate the cooperative efforts of faculty, students, and staff to educate, develop values, share knowledge, adopt policies and implement practices that are sustainable. This report shows UNCW's sustainable accomplishments during the 2007-2008 academic year and provides recommendations for future efforts.

The UNCW Sustainability Committee is comprised of seven subcommittees that each had a particular arena that they worked within. They are as follows:

- ✓ Academics & Culture
- ✓ Campus Dining
- ✓ Campus Environmental Stewardship
- ✓ Green Building & Energy
- ✓ Outreach & Student Initiatives
- ✓ Transportation & Grounds
- ✓ Waste Reduction & Recycling

This report summarizes the accomplishments/best practices of each of these committees, recommendations for future activities and other resources if necessary.

While not specifically included in one of the above mentioned committees, the topics of Public Service and Engagement and Diversity have strong ties to the social element of sustainability and therefore they are also included in this report.

EXECUTIVE SUMMARY & OVERALL RECOMMENDATIONS

Within the scope of the report the major accomplishments of each of the subcommittees are summarized as well as recommendations and a narrative description of other components of the work. Below is a summary of the top priorities that were identified by the committee during the course of the year as well as the preparation of this report. Their order does not imply priority.

1. Research the possibility of creating a sustainability Department with a budget, and at a minimum one sustainability coordinator position. This position will be the advocate, coordinator and resource manager for the sustainability initiative at UNCW. Position descriptions are attached. This department should be located within

the Division of Business Affairs, most likely within Business Services. At its maturity, it would include a Director, an Assistant Director for Outreach and Education and support staff. The Sustainability Committee would still be a viable and important functional component of the initiative and act as an advisory committee to this department.

2. Increase sustainability awareness on campus through education and marketing. So many departments work toward the goal of a sustainable campus and these efforts should be recognized. Much has been done this year but the addition of signs on campus is needed, along with the continuation of the website, @UNCW Sustainability Corner along and distribution of this and future annual reports to the campus community. These are just a few strategies to make the UNCW community more aware of sustainable efforts.
3. Develop a sustainability policy for UNCW. Many campuses embrace this initiative by instituting a policy that all departments must consider sustainable implications during purchasing and operational considerations. This could include a sustainability fee as well as the formation of pool of funding for departmental sustainability mini-grants.
4. Continue the conservation of woodlands on campus with the management of this area overseen by the sustainability department. These efforts should be designed to foster responsible use of the property as a living laboratory and good forest management.
5. One of the most publicly visible symbols of a sustainable culture is recycling. Expand recycling efforts on campus along with increased funding and staffing within this area is needed to meet its maximum potential. The purchase and use of recycled materials should be a primary concern and integrated with the sustainability policy.
6. Integrate sustainability awareness into the UNCW experience for students, faculty and staff. Develop a peer educator program and continue efforts such as the teach-in and sustainability pledge but expand educational opportunity to faculty and staff and include the aspects of social justice and economics.
7. Increase the engagement of sustainability in student activities to make it part of the on campus student culture.
8. Benchmark UNCW against national standards such as our carbon footprint or AASHE STAR program. This will identify major changes that UNCW can make to reduce its carbon output.
9. Develop design standards for new construction and renovation that will exceed the State Energy Office requirements and will meet LEED standards. LEED certification is optional.
10. Propose a student sustainability fee of less than \$10 per semester to fund sustainability projects and initiatives and possibly the departmental mini-grant program.

ACADEMICS & CULTURE

Committee Members: Jack Hall and Mark Lanier

This subcommittee focused on the efforts taken by the academic community and the establishment of sustainability as a component of the campus culture.

Accomplishments / Best Practices

1. Completion of survey of current courses at UNCW that have a component of sustainability in the curriculum
2. Completion of survey of current course at UNCW that use one of UNCW's natural areas for course assignments, laboratories, examples, etc.
3. Preliminary survey of course being developed that will include sustainability and/or use natural areas.

4. Development of comparison of UNCW curricula and programs with other school's academic offerings dealing with sustainability.
5. Preliminary survey of research activities that are conducted that are related to the environment or sustainability.
6. Conduct a sustainability teach-in, where faculty members were encouraged incorporate the concepts of sustainability into their curriculum for one class session (April 22, 2008)

Top Recommendations to Implement at UNCW

1. Provide incentives to faculty for course development related to sustainability.
2. Assemble comparison on curricula and programs with other schools in UNC system.
3. Provide financial support for students who complete applied learning projects dealing with sustainability.
4. Encourage more student involvement in sustainability issues, projects, and initiatives on campus, regional, state, and national levels.
5. Create "Sustainability in the Classroom" seminars to train faculty on how to incorporate sustainability into their curricula
6. Continue to foster the growth in sustainability research by actively seeking grants for the natural sciences, business and the social sciences.

Brief written summary or additional resources to review

Incentives for faculty should include course development funds specifically designated for sustainability related coursework at both the undergraduate and graduate level. Financial support for students could come from money saving (sustainability) efforts in other areas (ex. funds generated from sale of recycled materials). This could be used to provide funding needed to complete an applied learning project (supplies, equipment, travel) on a competitive basis.

Promote by e-mail, sustainability web-site, etc. activities both on and off campus related to sustainability issues. The recent films series is an example which seems to have moderate success but with more promotion could become a major student event on campus.

ACCOMPLISHMENTS:

Approximately 120 faculty and staff at UNCW are involved in teaching and research on environmental issues. Faculty members represent 17 different academic departments from the College of Arts and Sciences, Cameron School of Business, and Watson School of Education.

This is a list of current course which deal with aspects of sustainability in their curricula:

ANT 309—Enviro. Anthropology	GGY 130—Physical Geography
BIO 366—Ecology	GGY 140—Human Geography
BIO 458—Fisheries Bio.	GGY 180-181—World Regional Geography
BIO 466—Conservation Bio.	GGY 210—Economic Geography
BIO 478—Global Environ. Problems	GGY 230—Weather and Climate
CHM 211—Organic Chem. I	GGY 245—Tourism Geography
CHM 212—Organic Chem. II	GGY 270—Land Use Planning
CHM 312—Adv. Organic Chem.	GGY 317—Urban Geography
CHM 377—Enviro. Chem.	GGY 328—Introduction to GIS
CHM 475—Chem. Oceanography	GGY 333—Applied Climatology
EVS 120—Enviro. Geology	GGY 335—Geomorphology
EVS 195—Intro. To Enviro. Studies	GGY 336—Rivers and Floods
EVS 205—Global Enviro. Issues	GGY 340—Resources, Population and Environment
EVS 325—Enviro. Economics	GGY 345—Geography of Food
EVS 330—Nat. Res. Economics	GGY 422—Remote Sensing in Environmental Analysis
	GGY 424—Advanced GIS
	GGY 426—Environmental GIS
	GGY 433—Weather Analysis and Forecasting

EVS 360—Nat. Res. Management
EVS 361—Hist. Nat. Res. Man.
EVS 362—Enviro. Law
EVS 363—Enviro. Ed. And Interpretation
EVS 370—Enviro. Psych.
EVS 420—Global Climate Change
EVS 462—Adv. Enviro. Law
EVS 470—Wildland Man.
EVS 471—Nat. Res. Area Man.
EVS 485—Special Topics
EVS 495—Sem. In Enviro. Studies

GLY 120—Environmental Geology
GLY 125—Natural Disasters
GLY 150—Oceanography
GLY 220—Environmental Field Methods
GLY 226—Principles of Hydrology
GLY 420—Global Climate Change
GLY 426—Hydrogeology
GLY 458—Coastal Management

GGY 435—Environmental Geography
GGY 437—Soils in the Earth Sciences
GGY 473—Regional and Environmental
Land Use Planning
GGY 478—Historic Preservation Planning

HST 332—Amer. Enviro. Hist.
HST 456.533—Sem. Amer. Enviro. Hist.

PAR 360—Phil. Of Evolution

REC 362—Special Issues in Rec. Services
REC 366—Coastal Rec. Res. Management

SOC 215—Contemporary Social Issues

A survey of academic and organized use of UNCW forest areas indicates a very high demand for this space. From usage data gathered and given below, it is obvious that the UNCW forest areas are truly an important “Green Classroom”. These areas have as much student usage as many of our traditional classrooms with over 8,000 individual academic uses per year. With use by 12 academic departments encompassing both arts, humanities and sciences, it can not be overstated that this is an integral component of the educational experience at UNCW. Currently nearly 50 classes use forest areas as part of their curriculum with at least 12 additional classes under development or revision that anticipate additional use of this “Green Classroom”.

Loss of the “Living/Green Classroom” would result in additional expense to all the classes listed because they would have to pay for travel to a remote site for the same experience. This would increase the overall carbon footprint of the University with fuel consumption of vehicles used for the transportation of students. It would also decrease instructional time which would be used for travel to and from any remote sites. The UNCW “Green Classroom” not only provides academic opportunities for students, it also saves the University funds for travel and maintenance of vehicles.

Summary of the “academic use” of the forest in the past year:

- 12 academic departments used the forest.
- 49 classes used the forest.
- 144 class sections used the forest.
- 2,689 students used the forest for educational purposes.
- There were 8,209 individual uses of the forest.

Summary of “organized use” by UNCW clubs and organizations: 9,784 individual uses

Total Academic and Organized use: 17,993 uses per year

DEPARTMENTAL USE OF UNCW FORESTS:

BIOLOGY

BIO 105-Concepts of Modern Biology—26 section/yr with 650 students—2 labs; 1,300 uses

BIO 205-Plant Biology soon become BIO 202-Biodiversity: 18 sections/yr with 450 students—3 labs; 1,350 uses

BIO 312-Marine Botany—1 section/yr with 24 students—2 labs; 48 uses

BIO 315 Comparative Vertebrate Anatomy—1 section/yr with 24 students—2 activities; 48 uses

BIO 356-Vertebrate Natural History—1section/yr with 24 students—4 labs; 96 uses

BIO 366 Laboratory-Ecology—12 sections/yr with 300 students—6 labs, 1 section in summer with 20 students—6 labs;
1,920 uses

BIO 452-Mammalogy—1 section/yr with 24 students—4 labs; 96 uses

BIO 460-Limnology—1 section/yr with 8 students—2 labs; 16 uses

BIO 480-Field Studies—2 section/yr with 16 students—10 labs; 160 uses

BIO 495-Senior Seminar—1 section/yr with 20 students—1 activity; 20 uses; 8 uses

BIO 550-Advanced Vertebrate Biology—1section/yr with 12 students—5 labs; 60 uses

CHEMISTRY

CHM 377—Environmental Chemistry—4 sections with 60 students—3 labs; 180 uses

COMMUNICATONS

COM 380—Field Video Production 1—1 section/yr with 16 students—2 activities; 32 uses

COM 480—Field Video Production 2—1 section/yr with 12 students—2 activities; 24 uses

COM 491—Directed Individual Study-3 students in past year—3 activities; 9 uses

CREATIVE WRITING

CRW 201—Introduction to Creative Writing—1 section/yr with 25 students—2 activities; 50 uses

CRW 207—Fiction Writing—1 section/yr with 20 students—2 activities; 40 uses

CRW 208—Poetry Writing—1 section/yr with 20 students—2 activities; 40 uses

EDUCATION

EDN 336-Teaching of Science k-6—2 sections/yr with 20 students—1 activity; 20 uses

EDN 338-Teaching of Science-6-9—1 section/yr with 10 students—1 activity; 10 uses

EDN 485—Special Topics—1 section/yr with 10 students—1 activity; 10 uses

EDN 592—Independent Study—1 section/yr with 5 students—1 activity; 5 uses

ENGLISH

ENG 223-American Literature—1 section/yr with 25 students—2 activity; 50 uses

ENG 350-American Romanticism—1 section/yr with 28 students—2 activity; 56 uses; 30 uses

ENG 561-Topic in American Literature—1 section/yr with 10 students—1 activity; 10 uses

ENVIRONMENTAL STUDIES

EVS 195—Introduction to EVS laboratory—2 section/yr with 52 students—4 labs; 208 uses

EVS 370-Environmental Psychology—2 sections/yr with 17 students/section—2 labs; 68 uses

EVS 470-Adv. Nat. Res. Man.—1 section/yr with 15 students—7 labs; 105 uses

EVS 471-Management of Natural Recourse Areas—1 section/yr with 3 students—1 lab; 3 uses

EVS 472-Coastal Protected Areas Management—1 section/yr with 11 students—1 lab; 11 uses

EVS 485-Field Methods—1 section/yr with 20 students—8 labs; 160 uses

EVS 592-Special Topics—2 sections/yr with 9 students—6 labs; 54 uses

SCI 519-Environnemental Education for Teachers—1 section/yr with 5 students—1 lab; 5 uses

GEOGRAPHY

GGY 130—Introduction to Physical Geography—16 sections/yr with 360 students—2 labs; 720 uses

GGY 335—Geomorphology—2 sections/yr with 30 students—2 labs; 60 uses

GGY 437—Soils in Earth Science—1 section/yr with 20 students—4 labs; 80 uses

GGY 491—Directed Individual Study—4 students in past year; 100 uses

GEOLOGY

GLY 120—Environmental Geology—6 labs/yr with 120 students—1 lab; 120 uses

GLY 226—Principles of Hydrology—1 section/yr with 20 students—1 lab; 20 uses

GLY 312—Sedimentary Petrology—1 section/yr with 12 students—1 lab; 12 uses

GLY 426—Geohydrology—1 section/yr with 5 students—2 labs; 10 uses
GLY 599—MS thesis credit—1 student field area in past year; 50 uses
SCI 514—Geo. Ed. for Teachers—1 section/yr with 6 students—4 labs; 24 uses

HONORS

HON 110—Freshman Honors Seminar—2 sections/yr with 45 students—2 activities; 90 uses
HON 120—Honors Enrichment Seminar—3 sections/yr with 30 students-2 activities; 60 uses

PSYCHOLOGY

PSY 491—Directed Individual Study—5 students in the past year; 200 uses

UNIVERSITY STUDIES

UNI 101—Freshmen seminar—1 section/yr with 25 students—1 activity; 25 uses

ORGANIZATIONAL USES:

UNCW Cycling Club—50 uses with 10 members; 500 uses

UNCW Challenge/ropes course—1,784 participants with 8,126 hours of program use; 1,784 uses

UNCW Cross Country Team—250 daily uses with 30 team members; 7,500 uses

ENVIRONMENTAL RESEARCH

Research related to the marine sciences has long been a strength of UNCW. UNCW is recognized as a world leader in this area. Much of this research has a clear link to sustainability. Approximately 80 faculty members are involved in research that includes in excess of \$8 million dollars in research and over 200 peer reviewed journal articles Faculty and student research in areas of marine and coastal sustainability have given rise to service in areas of habitat sustainability, fisheries, mariculture, mitigation of human impacts, coastal erosion responses, and other areas of environmental interest in addition to managerial and human dimension aspects of environmental research.

CAMPUS DINING

Committee Members: Lindsey Cooper, Chris Dumas and Alex Wadsworth

This subcommittee focused on the review of best practices and strategies for future improvements. It is to assist the development of a dining services master plan and look at strategies for waste reduction, recycling, health/nutrition options, and more.

Accomplishments / Best Practices

1. Research current practices at UNCW
2. Work with Aramark to see results of sustainability benchmarking practices with other Aramark institutions
3. Wagoner Hall adopted the sustainable practices of going Tray-less to save water, utilized biopack recycled and recyclable boxes for box lunches and offers fair trade coffee
4. Campus Website Updates: <http://www.schoolish.com/en-US/CSSE/UNCWilmington/Sustainability/>
5. Recycling implementation of all cardboard products
6. Locally Inspired Lunch & Farmer's Market – Earth Day Celebration (in conjunction with Housing and Residence Life) – April 22, 2008, 11-2 PM
7. Reusable mugs now available to the campus community. Mugs are made of 77% recyclable materials and only cost \$4.99 with a free refill. Refills after purchase cost only \$0.64.



Top Recommendations to Implement at UNCW

1. Implement a Waste Reduction/Recycling program specific to campus dining
2. Make sure that the implementation of this reduction/recycling program is met

3. Educate all campus dining employees, including catering staff, on sustainability (importance of the practices and their role with this movement)
4. Consider the option of composting food wastes either on or off campus
5. Include more vegetarian options as well as vegan meal options
6. Utilize Local Vendors on a regular basis and advertize this usage (UNC includes a daily listing of local and sustainable choices on their menu)
7. Sustainable Products: continue to use and seek out new and sustainable products for use in our dining facilities
8. Enhance the relationship between the Sustainability committee and ARAMark employees

Brief written summary or additional resources to review

The main contact with campus dining was Melissa Apperson and she left UNCW at the end of April. Aramark is currently in the process of trying to fill her position. In the meantime, it will be important for members of this sub-committee to make new contacts in order to make sure that sustainability is a high priority for campus dining services. I also think it would be beneficial to make a trip to neighboring campuses that have made sustainable strides in order to help better our best practices at UNCW. Some questions that need to be considered though: Since Aramark is contracted, how much say does the university have in mandating/recommending best practices? Consider benchmarking with other institutions to examine what they do with respect to campus dining. One location that appears to have a very solid relationship between campus dining and the sustainability committee is Duke University. They appear to have solidified some beneficial practices as they relate to sustainability. I also think creating an “Action Plan” or a 5-year plan would be beneficial for campus dining with respect to sustainable practices.

CAMPUS ENVIRONMENTAL STEWARDSHIP

In response to the desire to be a good steward of campus property and to promote conservation of the green spaces on campus, Chancellor DePaolo created an additional subcommittee that was appointed to study and make recommendations regarding the greater than 140 acres of woodlands on the UNCW campus. This report is significant in scope and is not included in this sustainability report. The report in its entirety is included at http://www.uncw.edu/sustainability/documents/natural_area_report.pdf

GREEN BUILDING AND ENERGY

Committee Members: Phil Cooney, Emily Beth Sheppard and Steve Sharpe

This subcommittee focused on the review of UNCW’s design and construction guidelines with using the Leadership in Energy & Environmental Design (LEED) rating system as a frame of reference. This subcommittee looked at how UNCW can conserve energy and save money and made recommendations for sustainable sites, water efficiency, energy efficiency, indoor environmental quality, and innovative design

Accomplishments / Best Practices

1. Annual Strategic Energy Plan

The University has signed a memorandum of agreement to meet the State Energy Office energy mandate. As part of this agreement UNCW generates an Annual Strategic Energy Plan, which does the following:

- A. Reports cost, energy consumption, and water usage on a square foot basis
- B. Lists accomplishments of the past year, goals for the coming year, associated costs, and funding sources. These lists are broken into the following categories:
 - i. Energy Data Management
 - ii. Energy Supply Management
 - iii. Energy Use in Facilities
 - iv. Equipment Efficiency
 - v. Organizational Integration



2. Performance Contracting

UNCW is moving the process forward for its first Performance Contract. Performance Contracting will allow us to fund energy efficiency improvements and renewable energy projects.

3. Centralized Production of Chilled Water and Heating Hot Water (where advantageous)

UNCW is placing older stand alone buildings on centralized systems. A single centralized plant can run significantly more efficiently than several stand alone building plants.

4. Installation of Energy Efficient HVAC Systems

All projects are reviewed to assure that energy efficient HVAC equipment is installed.

5. Metering

UNCW is retrofitting utility meters on individual buildings. This will allow the university to track consumption data on each building.

6. Water Reduction

A. UNCW is investigating ways to reduce water usage on campus. A third party audit has been conducted.

B. The campus (including the Campus Life facilities) complied with city of Wilmington mandates for water conservation by shutting off exterior and interior water fountains

7. Green Building

A. Phase 3 housing slated to be LEED Certified

B. Campus Life will seek LEED-EB for the Fisher Student Center in 08-09

8. Centralized Monitoring

UNCW has standardized on a campus wide building systems architecture that tie into a web-enabled central monitoring station. This allows us to better monitor the campus systems and sets us up for advanced centralized functions such as active energy management, automated billing, automated maintenance scheduling, etc

Top Recommendations to Implement at UNCW

1. Fund periodic updating of Campus Master Plan and Develop a long range Energy and Sustainability Master Plan (ESMP) that supports UNCW's 2005 Master Plan (<http://www.uncw.edu/itsd/documents/UNCWCMPFINAL060411.pdf>) *this master plan must utilize sustainable design practices that reduce energy costs and minimize exposure to energy cost rate fluctuations.*
 - a. Develop a Utility Master Plan that supports the ESMP. The Utility Master Plan shall include at a minimum:
 - i. Electric Distribution
 - ii. Chilled Water Distribution
 - iii. Heating Hot Water Distribution
 - iv. Natural Gas
 - v. Potable Water
 - vi. Sewer
 - vii. Storm water
 - viii. Data / Telecom
 - b. Develop a Phased Strategic Implementation and Budget Plan for the ESMP that prepares for the anticipated development of the campus.
2. Develop a series of design standards that will meet or exceed the State Energy Office requirements and require all new construction or renovation to meet LEED silver building requirements.
3. Phase out the use of incandescent light bulbs where ever possible by replacing all bulbs or fixtures with more energy efficient alternatives including compact florescent or light emitting diode (LED) technology.
4. Utilize educational materials such as plaques or signs to let the university community and visitors know about building technologies that are sustainable. UNC has effectively implemented such a program that recognizes the efforts of the university toward sustainability and raises community awareness of issues.

There are diverse ways for UNCW students to learn about sustainable living and get involved with making UNCW a more sustainable institution. These outlets may include environmental internships, service projects, academic courses, green programs and contests, community events, conferences, etc. This subcommittee focused on identifying ways in which UNCW might provide a better model of sustainability for its students, investigating other university models, building and gauging student interest, and developing proposals.

Accomplishments / Best Practices

1. Conducted the Carolina Collegiate Conference on Sustainability featuring Dr. Debra Rowe as the keynote address. Dr. Rowe is an expert in sustainability issues and involved with AASHE and University Leaders for a Sustainable Future (ULSF).
2. Printed 1,500 sustainability stickers to raise awareness of sustainability on campus and started placing them on recycle bins on campus.
3. Incorporated sustainability efforts into major student organizations such as: ACE, RHA, and SGA.
4. Conducted programming efforts and film series from Campus Activities and Involvement Center that included the following:



Screening of *The End of Suburbia*

A discussion followed (lead by Dr. Cahoon, Dr. Hall, and Dr. Shew) about the use of fossil fuels about what can be done on campus and in our lives to decrease our use of/dependency on fossil fuels. This film highlights the demand on fossil fuels and the effect of global warming. Students will learn about how they are impacting the environment as well as the various ways they can reduce their use of fossil fuels and other natural resources. 60 people attended

Sustainability Fair

As a prelude to environmentalist Tim Flannery’s lecture, UNCW Presents hosted a “Sustainability Fair” during the day that included ways to encourage students to live a more sustainable life (on campus and off). Tables included information the following: recycling, Sustainability programming, Cooperative buying and local foods, careers that focus on sustainability, environmental studies, library resources, and what UNCW is doing to create a more sustainable campus. At least 100 people walked by and talked to the offices and businesses represented.

Screening of *Escape from Suburbia* (Sequel to the first film of the series)

Discussion was lead by Dr. Hall and Dr. Cahoon. Co-Sponsor: ACE co-sponsored this event as a part of Fall Fest. In *ESCAPE From SUBURBIA* director Greg Greene once again takes us “through the looking glass” on a journey of discovery – a sobering yet vital and ultimately positive exploration of what the second half of the Oil Age has in store for us. 27 people attended.

Tour the Bluthenthal Wildflower Preserve.

Carie Hett, a biology graduate student who has done hours of research in the Preserve, lead a tour. She pointed out species that grow in the preserve as well as the history of the preserve and the ways in which students, staff, and community members can use the area. She stressed the importance of being responsible citizens of the UNCW community in terms of keeping the Wildflower Preserve clean and available for everyone to use. 12 people attended.

Screening of *The Future of Food*.

Implementation: Tidal Creek, Wilmington’s Cooperative Market, donates food. In addition Jessica Ashcraft was on the discussion panel after the film. Dr. Cahoon and Alice Merritt (UNCW Nutritionist) were also in

attendance. They talked about the benefits of eating organic food, buying local food, as well as how to take advantage of such opportunities in Wilmington. 87 people attended

The 2% Solution- National Webcast

Focus the Nation will stream a free, live, interactive webcast called **THE 2% SOLUTION**. Stanford University climate scientist, Stephen Schneider, sustainability expert Hunter Lovins and green jobs pioneer Van Jones and youth climate leaders, lead a discussion of global warming solutions. On our campus Dr. Shew led a discussion based on the solutions Focus the Nation offered. Purpose for *The 2% Solution*: Educate students about how global warming is affecting our lives. Encourage students to make a difference in the global warming problem—to be a part of the 2% Solution. It kicked off the Sustainability Series. 21 people attended

Screening of *Blue Vinyl*, Discussion led by Dr. Cahoon following the film.

Director Gold set out in search of the truth about polyvinyl chloride (PVC), America's most popular plastic. From Long Island to Louisiana to Italy, they unearth the facts about PVC and its effects on human health and the environment. Back at the starter ranch, Helfand coaxes her terribly patient parents into replacing their vinyl siding on the condition that she can find a healthy, affordable alternative (and it has to look good!). A detective story, an eco-activism doc, and a rollicking comedy, *BLUE VINYL* puts a human face on the dangers posed by PVC at every stage of its life cycle, from factory to incinerator. Consumer consciousness and the "precautionary principle" have never been this much fun. 14 people attended

Screening of *Black Gold*

Discussion following the film to be led by Jessica Ashcraft from Tidal Creek and Dr. Peter Schuhmann from the Economics and Finance Department.

Multinational coffee companies now rule our shopping malls and supermarkets and dominate the industry worth over \$80 billion, making coffee the most valuable trading commodity in the world after oil. But while we continue to pay for our lattes and cappuccinos, the price paid to coffee farmers remains so low that many have been forced to abandon their coffee fields. Nowhere is this paradox more evident than in Ethiopia, the birthplace of coffee. Tadesse Meskela is one man on a mission to save his 74,000 struggling coffee farmers from bankruptcy. As his farmers strive to harvest some of the highest quality coffee beans on the international market, Tadesse travels the world in an attempt to find buyers willing to pay a fair price.

5. During the summer of 2007, the Office of Housing and Residence Life (HRL) created the Sustainability Initiatives Committee. The charge of the committee is to support, educate, and implement programs and policies that encourage efficient use of resources as they relate to environmental, institutional, social, and economical resource allocation. In its inaugural year, much of the efforts of the committee and its members were focused on environmental sustainability initiatives.

Below lists a breakdown of events sponsored by the committee during the 2007 fall semester:

- **Marketing Development** – worked with UNCW Marketing and Communications to develop a consistent and recognizable logo for the programming and education initiatives of the committee. The design of the logo encompasses the committee's commitment to best practices in all levels of sustainability both locally and abroad. The logo has common phrase of "reduce, reuse, recycle, and rethink".
- **Recycling Initiative Survey** – worked with Nathan Lindsey, director of Student Life Assessment, to develop and implement a survey instrument aimed at assessing current behaviors and attitudes towards the practice of recycling and discovering methods of improvement and increased participation in HRL and UNCW recycling programs. This effort solicited 257 participants in approximately three weeks and a wealth of information that has been used to guide the practices and future goals of the committee.
- **RA In-Service Education** – provided a training opportunity for 68 member HRL resident assistant staff aimed at relaying the departments renewed focus on sustainability efforts. The presentation highlighted issues including Higher Education's role in sustainability efforts, common assumptions and misconceptions, common practices at UNCW and in HRL, as well as future pursuits.

- **Housing All-Staff Meeting** – similar to the above mentioned RA In-Service presentation, this presentation was offered to the entire HRL staff, including directors, residence life professional staff, maintenance staff, and administrative assistants in an effort to share the vision of sustainability efforts within the HRL department.
- **Recycling is Right Program** – celebrating America Recycles Day, the committee developed a game show modeled after the famous Price is Right TV game show. The event was held in Wagoner Dining Hall on November 15, 2007 and prizes were awarded that emphasized best practices relating to sustainability. For this event business cards were also developed to promote 10 tips that each community member could do to lead a more sustainable lifestyle.



During the 2008 spring semester, the committee continued its efforts by attending the Carolina Collegiate Conference on Sustainability. In an effort to support the conference spearheaded by the Student Government Association, the committee sponsored the attendance of 11 students and committee members to attend. In regards to programming, much of the committee's focus during this semester revolved around planning Sustainability Week 2008. The committee designed t-shirts and business cards to showcase the committee logo as well as educate on practices to live more sustainable. The committee went to great lengths to collaborate with a host of offices and offer to students, faculty, and staff an array of events. The offices and departments who partnered with the committee includes: Cape Fear & UNCW SurfRider, Campus Dining, Health Promotion, UNCWeekends, Campus Life, UNCW Sustainability Committee, and Campus Recreation.

Below are the highlights of the programming that took place during **Sustainability Week 2008:**

- **Recycling War and Clothing Drive** – held April 15-22, drop-off locations were in each residential area. Participation was rewarded by a pizza or ice cream party to the most involved floor/suite/apartment.
- **Sustainability Poster Contest** – judged on April 16, winning submissions were awarded \$200 first place prize and \$50 second place at the UNCW Bookstore.
- **LEED The Way** – was offered on April 16. Hosted by the Student Affairs Professional Development Committee, experience Student Affairs staff shared LEED Certification innovations that are being enacted throughout the Campus Life and Housing & Residence Life facilities.
- **Sustainability Bingo** – held on April 18 in Wagoner Dining Hall provided a weekend social outlet for students while awarding Bingo prizes that related to best sustainability practices.
- **Kickin' Some Campus Butts** – service opportunity held on April 19. The focus of the day was to hold a cigarette butt clean-up and outfit storm water drainage with educational markers to deter inappropriate dumping. This was a successful event sponsored largely by the campus and community Surfrider organizations.
- **Fern Gully Under the Stars** – held April 20, the outdoor movie with pot painting and hemp bracelets solicited over 150 students in the University Suites Courtyard.
- **Carbon-Less Commute** – weeklong event held April 21 – 25. The event was designed to encourage the UNCW Community to walk, bike, carpool, or utilize public transportation to lessen their carbon impact on the environment. Participants checked in daily at the University Union or Campus Recreation Center to be eligible for daily prizes.
- **EARTH DAY CELEBRATION** – was held on April 22, Earth Day. The day started with the Locally Inspired Lunch and Farmers Market at Wagoner Dining Hall. Campus Dining will prepared a lunch that had much of the menu chosen from local and close proximity producers/distributors in an effort to reduce the carbon impact of the food supply chain, all while showcasing the many products and foods that are a part of the southeast region. Health Promotion brought back the Farmers Market to provide fresh local produce and products that were sold right in front of Wagoner Dining Hall during the celebration. The overall event saw increased attendance of about 20% at the dining hall. To close



out the day, *The 11th Hour* at was shown at Lumina Theater. The documentary produced and narrated by Leonardo DiCaprio “explores the perilous state of our planet, and the means by which we can change our course. Contributing to this crucial film are noted politicians, scientists and other ambassadors for the importance of a universal ecological consciousness.”

Top Recommendations to Implement at UNCW

1. Hire an *Assistant Director for Sustainability Outreach and Education* for UNCW and provide for a continued operational budget for the program.
2. Develop a peer Educator system for sustainability modeled similarly to Crossroads and Health Promotions.
3. Propose a Sustainability Fee for students that would fund sustainability initiatives. This has been very successful at other institutions such as UNC and Appalachian State University that have instituted \$4.00-\$5.00 per semester per student fees.
4. Develop a pool of funding that can award mini-grants in sustainability to the UNCW community. Mini grants in the form of several hundred dollars could allow individual departments to recognize opportunities for more sustainable practices and implement them when departmental funds are inadequate.
5. Find ways to create a climate of sustainability early in a student’s college carrier via orientation utilizing more sustainable media such as an orientation CD and include sustainability information.
6. More marketing for current sustainable practices and initiatives in @UNCW, signage and community press releases.
7. Online Sustainability Pledge for all students, faculty and staff (which will be in place by Summer 2008 Orientation)
8. Increase visibility of recycling centers in residence halls, laundry facilities, and throughout campus, both indoor and outdoor.
9. Increased marketing of sustainability practices related to recycling and energy and water conservation.
10. Provide awareness and educational information as early as possible. Connect with new students at orientation to set up displays of what is happening in regards to sustainability at the resource fair (this will start with Summer 2008 Orientation).
11. Increase expertise and knowledge base by fostering strong connections with faculty
12. Create and implement sustainability survey to all students, faculty and staff

Brief written summary or additional resources to review

Student outreach and educational initiatives are extremely hard to implement without a source of funding. Most initiatives this year were independent initiatives completed by other organizations on campus using their own budgets. The following schools have or are looking at increasing their tuition to financially support their sustainability initiatives:

- University of Wisconsin-La Crosse (\$5 Green Fund)
<http://www.lacrossetribune.com/articles/2008/04/02/news/z01uwlgreen.txt>
- Appalachian State University (\$5 Fee)
<http://theapp.appstate.edu/content/view/2107/43/>
- College of William and Mary (\$30 Green Fee): Look at eighth paragraph
<http://www.wm.edu/news/index.php?id=8896>

TRANSPORTATION AND GROUNDS

Committee Members: Roger Shew and Gwen Bolden

This subcommittee was to review best practices at UNCW and other campuses and provide recommendations for a Transportation Master Plan, a long-range plan to develop an integrated and multi-modal network of transit options for campus users.

Accomplishments / Best Practices

1. The expansion of AA parking lot was completed with pervious pavement.
2. Additional shuttle routes were added to serve the campus community and increase ridership.
3. Members of this subcommittee served on the new woodland stewardship committee in review of the natural resources at UNCW and extended areas.

Top Recommendations to Implement at UNCW

1. Fully develop and implement a car pooling policy that offers a savings above parking permits and aggressively market this as an alternative. Create incentives for staff and students to carpool.
2. Continue to utilize vertical parking technologies such as parking decks and pervious parking surfaces where applicable.
3. Utilize solar powered bus stops and signage lights where possible as not only a sustainable but a cost saving program.
4. Take steps to measure the carbon footprint of UNCW and consider benchmarking with other institutions through this program or the AASHE STAR program.
5. Utilize solar power for electrical outlets in new parking decks.
6. Research and develop a departmental bike program.

WASTE REDUCTION AND RECYCLING

Committee Members: Kathleen Miller, Stan Harts and Phoebe Tseh

This subcommittee concentrated on strategies and recommendations for an integrated and environmentally sound waste management & recycling program for the UNCW community. They focused on identifying ways in which waste minimization and management on campus can be improved (and incorporate technology into strategies). Other areas of focus include chemical safety, occupational safety, environmental health, fire safety, emergency management, identify ways to improve / increase the recycling program at UNCW, and increase and improve recycling signage on campus and look into increasing recycling of “alternative items” such as toners, CDs, etc

Accomplishments / Best Practices

1. Move In – 10 tons of cardboard diverted from landfill. Made designated areas around the Residence Halls for cardboard collection.
2. As of 2008, Residence Halls are now recycling. Residence Life staff delivers collected materials to Physical Plant recycling depot.
3. 350 multi-bin containers are now available throughout campus
4. Obtained a gift from UNCG in the form of approximately 400 point of generation recycling bins where commingled recyclables can be placed right next to a trash can giving an alternative. .
5. Since 2004, have shown significant increase in amount of materials that were diverted from landfill (recycled, reused, etc...)
6. Awareness has increased in the campus community.
 - a. Better advertisement of what we recycle through methods such as a recycling information poster developed through the subcommittee..
 - b. Signs on multi- bins and printable signs on website.
 - c. Collaboration with Eco Club, Residence Life.
 - d. Recycling staff customer service and interaction with community.
7. Instituted venue recycling upon request, recycling services will deliver container and services for any special event.
8. 2008 began working with judicial system to use persons who were fulfilling Community Service requirements to help collect, sort, transport recyclables.
9. Transitioned to a default double sided printing for the i-print program beginning fall semester 2008 and began using recycled paper for the i-print program.



Top Recommendations to Implement at UNCW

1. **Additional resources** – Additional resources should be allocated to increase the effectiveness of the recycling program. Consideration should be given to making recycling and waste reduction a standalone department similar to UNCG (<http://facilities.uncg.edu/recycling/default.htm>)
2. Additional bins and sustainable vehicles are needed to fully support his department.
3. **Hire additional staff such as a Recycling Coordinator** and several additional employees to address the growing volume of recyclable materials on campus. Manpower during day to day operations needs to be increased and housing and residence life recycling needs to be integrated into the campus recycling program for efficiency.
4. **Upgrade Recycling Depot on Lionfish Drive** - Purchase 7 roll-off containers and allocate extra land and parking. Example: Wrightsville Beach recycling depot.
5. **Curbside Bins** –Purchase additional rolling curbside containers like the ones at Burney Center dock. Place outside of every Residence Hall and many campus building.
6. **Data Tracking** – Need system to track the amount of goods being recycled.(e.g. food waste, motor oil, tires, batteries, construction and demolitions, purchasing of recycled products)
7. **Orientations** - Recycling awareness and procedures to be covered at new student and new staff orientations as well as specific collaboration and training with housekeeping staff to increase recycling effectiveness.
8. **Office Containers** - Obtain and distribute more point of generation recycle containers to all individual staff offices.



Brief written summary or additional resources to review

Recycling services on campus is not positioned to address the exponential growth of this program within the last 3 years and additional growth is anticipated.

PUBLIC SERVICE AND ENGAGEMENT

This information was collected from the Center for Leadership, Education and Service (CLES)

Accomplishments / Best Practices

1. 50,000+ community service and service-learning hours reported at UNCW
2. 3733 – number of students participating in public service and engagement
3. \$672,988 – economic impact (The Independent Sector, \$19.51 per hour)

DIVERSITY

Information collected from the Office of Institutional Diversity and Inclusion and the Division of Student Affairs Diversity Committee

Diversity at UNCW

In the pursuit of excellence, the University of North Carolina Wilmington actively fosters, encourages, and promotes inclusiveness, mutual respect, acceptance, and open-mindedness among students, faculty, staff, and the broader community. Diversity is an educational benefit that enhances the academic experience and fosters a free exchange of ideas from multiple perspectives. Please refer to the UNCW Diversity web site for details and a campus-wide diversity report. (<http://www.uncw.edu/diversity/diversity.html>)

By holding diversity as a core value, we commit to honoring and learning from the experience of all individuals, moving beyond tokenism into a transformative experience for ourselves and individuals who interact with the division. Valuing individual diversity means using the strengths and different perspectives that each person offers as a result of his or her culture, religion, ethnicity, gender, race, national origin, disability, sexual orientation, and age. We intentionally create an environment that challenges our assumptions and increases our awareness of historical, national, and global issues that influence our world view. The Division of Student Affairs has commissioned a Diversity Committee to identify staff

training and development initiatives, staff recruitment and retention activities, and student education. The committee consists of Dr. Donna Chapa Crowe (chair), Marquita Brown, Sarah Clark, Genille Goldson, Amy Hector, Amy Hourigan, Larissa LaCour, Greg Steele, Josh Thompson, Clifton Williams, and Will Wilkerson. This committee has worked hard to bring diversity training programs and workshops to UNCW.

Accomplishments / Best Practices

1. The Division of Student Affairs offered 36 diversity programs, seminars, and training sessions during Spring 2008. The opportunities included: Multicultural Showcase, Equality Reception, Speak Up-Speak Out Week, Dr. Maura Cullen Diversity speaker, Love in Any Language, BGLAD Training, LGBTIQ Workshop, Soup and Stories Series, Coffee Break-Diversity Questions I've Always Wanted to Ask, Leadership Lecture Series-Winning the Battle Against Poverty and Disease in a Developing World, Film Series, The Kite Runner, Breaking Down Hate, Tunnel of Awareness, Voices from Darfur, Religions of the World, Accessible Recreation Day, Lila Downs Concert, and National Day of Silence.
2. Collaborations occurred on campus with UNCW Presents, Campus Activities and Involvement Center, Housing and Residence Life, Human Resources, UNCW Diversity Committee, Division of Student Affairs Diversity Committee, Upperman African American Cultural Center, Centro Hispano, International Programs and Center for Multi-Culturalism and Pre-College Programs
3. Summer 2008 programs sponsored by the Student Affairs Diversity Committee include Soup & Stories, Game of Oppression, Coffee Break – Diversity Reflections, and Snack Break: How to engage in challenging conversations with students regarding diversity.
4. Hour-long diversity sessions at 2008 Summer Orientation. As a result of participating in the diversity orientation program, students will be able to:
 - a) Recognize the privilege inherent in attending an institution of higher education with a global context.
 - b) Understand the expectations of the UNCW community campus Respect Compact.
 - c) Identify behaviors that support a diverse community

CONCLUSIONS

As can be shown from the above report, the UNCW Sustainability Committee has made tremendous progress toward making UNCW a more sustainable place to live, learn and work. The challenges of an initiative such as sustainability is that it touches every facet of the UNCW experience and communication of all that is being done and prioritizing all that needs to be done is a tremendous task. This report has only exposed the tip of the iceberg on this issue and future efforts should focus on being a proponent of the sustainability initiative and a clearing house of information regarding strides made. We must also remember that sustainability is about creating a healthy triple bottom line: healthy environment, healthy economies, and healthy communities (social justice).

APPENDIX

- I. Sustainability Department job descriptions
- II. Sustainability brochure
- III. Sample of Green Purchasing and Living Guide
- IV. Samples of Green Maps (sustainable campus maps)
- V. University Leaders for a Sustainable Future Sustainability Assessment Questionnaire (SAQ)
- VI. ACPA (American College Personnel Association) Sustainability Task Force supporting documents
- VII. AASHE: Sustainability in Higher Education Assessment Framework
- VIII. AASHE: Sustainability Officers and Salary Survey
- IX. Division of Student Affairs Diversity Program flyers
- X. UNCW: Galloway goes Green 2007-2008
- XI. UNCW: Sustainability Poster for student organizations
- XII. Sustainability Departments at institutions in North Carolina
- XIII. University of St. Thomas Sustainability Documents: Faculty Development Seminar and Video Contest
- XIV. Strategic Plan for Furman University, 2007 - 2011