

The Green Times

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Annual Waste Audit Finds Davidson College Improving Recycling Habits

On November 17, twenty-one Davidson College student and staff volunteers participated in the 2003-2004 waste audit to learn how students are utilizing the recycling facilities available on campus. The audit is sponsored annually by the Davidson Environmental Action Coalition (EAC).

In all, 793 pounds of recyclables were recovered, including over 500 pounds of paper, 100 pounds of cardboard, 769 aluminum cans, 490 plastic bottles, and 181 glass bottles.

ACS Environmental Intern and EAC vice president Greg Harris, '05, said, "Although we seem to have improved since last year's waste audit, there is lots of room for more community-friendly disposal of waste." To train volunteers, Greg compiled a "Waste Assessment Guide," which will be used for future audits also.

To improve student recycling, the EAC created a program of recycling discussions during orientation on first-year halls, seeking more joint efforts between the administration and students, and trying to introduce a recycling program for Patterson Court.

EAC member and coordinator of the project, Jon Atkinson, '06, said, "The fate of this project is

going to depend on the willingness of students to take this up as their own cause and see that the bins get used and used properly."

Davidson Interns Busy

ACS Interns Katie Cashwell and Greg Harris attended the N.C. Conservation Network Conference at UNC Asheville. The highlight of the conference was a lecture from the environmental program coordinator at UNC Chapel Hill on cutting-edge green building and energy efficiency techniques used at UNC-CH.

Katie has been in contact with Mary Helen Ferguson, the Birmingham-Southern Environmental Intern who started a community organic garden from which some of the produce has been used by her campus's dining services. Information was shared on how this process was started and what was involved.

Katie also met with local organic farmer and Davidson College Physical Plant employee, Jimmy Freeze, to discuss the feasibility of setting up a partnership between a local farm and Davidson College. Mr. Freeze raises livestock and grows his own food, using a horse-drawn plow to cultivate his fields.



The Green Times is a publication of the Associated colleges of the South (ACS) Environmental Programs. Content is provided by Student Interns, Faculty Fellows, and the ACS staff. Although reasonable efforts are made to ensure that the information included is accurate, ACS is not responsible for any erroneous information appearing in this publication. Information, comments and corrections may be directed to: Deeanne Daly, Wiseman 101, Centre College, Danville, KY 40422, 859-238-6224, fax 859-238-6226, ddaly@colleges.org

UNDERGRADUATE RESEARCH CONFERENCE IN ENVIRONMENTAL STUDIES

The Associated Colleges of the South Environmental Programs is proud to announce its first Undergraduate Research Conference in Environmental Studies. Deadline for proposals: February 20th

Spelman College will host the conference April 24-25, 2004. It will be a wonderful opportunity for ACS students to inspire each other and their faculty mentors, to share their work, and to network about environmental internships and graduate schools.

Call for Papers

Students are invited to present research, as papers or poster sessions, in any area of environmental studies (natural sciences, humanities, social sciences, fine arts, interdisciplinary).

On the facing page we have published the call for papers, with more information about the details of proposals, which will be reviewed by an interdisciplinary faculty committee representing various ACS institutions. Please print this out and share with your colleagues!

Proposals

Proposals should be sent as Word attachments to Dr. Laura Hobgood-Oster at hoboster@southwestern.edu.

Funding

One student from each ACS institution will be fully funded to cover transportation, room and board. We highly encourage all whose campuses are about 500 miles or less from Atlanta to drive

and carpool (WLU, UR, Furman, Davidson, Sewanee, BSC, Rhodes, Centre, Rollins). For those who can carpool, funding for one student will cover transportation costs for all other students/faculty from the same institution. And, it's environmentally friendly!

We hope that additional students and accompanying faculty can arrange funding through their individual institutions. Approximate costs (in addition to transportation): \$175 per faculty person (meals and hotel lodging); \$95 per student (meals and shared hotel lodging).

For more information about the conference, please contact:

Dr. Fatemeh Shafiei

fshafiei@spelman.edu

or Dr. Laura Hobgood-Oster

hoboster@southwestern.edu.



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Students are invited to present research in any area of environmental studies (natural sciences, humanities, social sciences, fine arts, interdisciplinary). Paper or poster presentations are invited.

Submissions for a paper presentation should include:

1. student's name and institution
2. faculty mentor's name
3. paper title
4. general disciplinary area (this can be broadly interpreted, for example "Religion and Environmental Studies" OR "Chemistry and Environmental Science")
5. a 100-word abstract of the paper

Submissions for a poster presentation should include:

1. student's name and institution
2. faculty mentor's name
3. poster/research title
4. general disciplinary area (see above)
5. a 100-word description of the research project and information to be presented in the poster

Send all proposals as Word attachments to:

Dr. Laura Hobgood-Oster at hoboster@southwestern.edu

Proposals will be reviewed by an interdisciplinary faculty committee representing various ACS institutions.

**For more information contact Dr. Fatemeh Shafiei (fshafiei@spelman.edu)
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ECONOMICS AND THE ENVIRONMENT

David Anderson, Paul G. Blazer Associate Professor of Economics at Centre College and a member of the ACS Student Development and Engagement Alliance, spoke to local community members on the topic "Economics and the Environment" at Centre's "Food for Thought" luncheon December 2. There, Anderson discussed intersections among ethics, economics, and the environment, including explanations of prominent ethical standards and their applications to pressing environmental issues.



27, 2003 *New York Times* as an example of one of a growing number of professors who "turn to Wal-Mart to highlight social problems" being investigated in their courses. The *NY Times* described Anderson's "Economics in an Ethical World" course, because he takes students to the local Wal-Mart to explore "issues like the impact of goods that are made abroad and sold cheaply in the United States." Anderson's work was subsequently cited in the August 3, 2003 *Tulsa World*.

Anderson provided an overview of various ethical theories and their lessons for decision makers, from ethical egoists, who look out for themselves, to the ecocentric stance of deep ecology, whose advocates see the economy as a subset of the ecosystem and suggest that to aid the environment is to aid the economy as well. "Even in the face of our many natural resource constraints, the barriers to a high and sustainable quality of life are primarily ethical," Anderson said.

Anderson is the author of the textbook *Environmental Economics and Natural Resource Management* (South-Western Press, 2004).

Anderson's work in the field of environmental ethics has not gone unnoticed. Professor Anderson was cited in two related articles in the July



David has his own website at <http://web.centre.edu/david/>. He also created and directs a green page called *The Environmental Education Station* (<http://web.centre.edu/enviro/> or www.ees.cc). This site provides course syllabi, readings, exercises and books for professors interested in developing environmental curriculum and/or lesson plans. In addition, it links to information on a variety of environmentally-related subjects such as deforestation, recycling, economics and the environment, sustainable development, environmental audits, and organic gardening.

ACS Environmental Programs links to Anderson's "Green Page" and highlights other environmental websites posted at ACS institutions: <http://www.colleges.org/%7Eenviro/resources/greenpages.html>.

THE GREENING OF FURMAN UNIVERSITY

Since the inception of the ACS Environmental Programs in 1998, Furman University has undertaken numerous environmental initiatives to encourage faculty, staff and students to live in a more earth-friendly way. Furman's Eco-Cottage and two LEED-certified building projects, for example, have been widely publicized. The university has also provided students with more than 50 "green" bicycles to encourage less automobile traffic on campus.

Eco-Cottage

Furman's Eco-Cottage, occupied since 2000, has been fitted with energy-saving devices, including electricity-generating solar panels and low-impact faucets and toilets. Insulation and energy-efficient doors and windows have also been installed.



Students living in the Eco-Cottage have pledged to recycle, cut down on energy consumption, limit water

use, and to use only recycled paper products. They also record energy usage and any lifestyle changes necessitated by the pledge. This data is being compared to the cabin next door, which has not had any structural changes.

LEED Buildings

Furman's new Hipp Hall, a 38,000-square-foot building, was dedicated October 29. Hipp Hall was constructed under stringent environmental standards enabling it to be awarded a Gold LEED rating—the only such building in South Carolina so far.

Hipp Hall windows are equipped with a solar green glass tint, which allows the maximum amount of daylight to enter but blocks ultraviolet heat, which can cause the temperature in the building to rise.

Other interesting "green" features of Hipp Hall include:

- Twenty-five percent of the materials used in the building contain recycled content, compared with 15 percent

for most buildings.

- More than 75 percent of the waste generated during the construction of Hipp Hall was recycled.

- Sensors in the duct work detect carbon dioxide, which is exhaled when we breathe. The data is used to monitor the air temperature and humidity in the building.

- R-19 insulation and a special tinfoil-like substance are layered under all the external brickwork, reflecting heat while keeping the interior cool during the summer and warm in winter.

- More than 90 percent of the offices in Hipp Hall have a direct line of sight to the outside.

- Thanks to tree conservation and new plantings, more than 30 percent of the sidewalk and parking area around Hipp Hall will be shaded in five years.

Mary Pat Crozier, capital construction manager for Furman, said that implementing the environmentally friendly features added about \$300,000 to the cost of the building, but those expenses should be recouped through energy savings in about 12 years.

In addition to the accomplishments of Hipp Hall, "green" renovation is underway on the James Buchanan Duke Library which, when completed, will also be LEED certified.

One key to the success of the greening of Furman is that president David Shi, vice president Wendy Libby (Business Affairs), and director Doug Lange (Facilities Services) have been enthusiastic in their support of various environmentally friendly projects taking place at Furman. New vice president for Academic Affairs, Tom Kazee, who sits on the ACS Environmental Programs Steering Committee, will make a great addition to the "Green Furman" team.

The U.S. Green Building Council (www.usgbc.org) developed the Leadership in Energy and Environmental Design (LEED) point-based system to encourage development of high-performance, sustainable buildings. There are four levels: certified, silver, gold and platinum, based on the number of environmentally-friendly features they include. LEED provides a framework for assessing building performance and meeting sustainability goals.

CENTRE COLLEGE ECO-HOUSE

Centre interns Samantha White, Julia Leist and Faculty Fellow Patrick Kagan-Moore met with Perfection Systems, the sponsor for Centre's Ecohouse, which has begun an "operational analysis" of the house. Energy bills for the last two years, repair bills, equipment installation records, and a floor plan will be gathered to assist in their analysis.

Perfection Systems plans to provide cost/return estimates on all manner of systems in the house so that it can be determined what to address first. They'll be taking pictures of the house, as will Centre, to document before & after comparisons.

The Centre College EcoHouse Charter

The Centre College EcoHouse is an educational and residential facility that seeks to promote environmental education and sustainable living practices to Centre College, Danville, and Boyle County. We pursue our mission in several ways:

By demonstrating, in our daily lives, ways in which ecological design, simple living, and community stewardship can intersect to provide a high quality of life without degrading the environment.

By researching, installing, and showcasing technologies that conserve energy, control resource flow, and/or enhance the environment.

By organizing and giving support to campus- and community-based efforts to expand environmental education and sustainable living.

Residents of the EcoHouse commit to ethical environmentalism in their daily lives, and to working with other residents to further the goals of community, sustainability, and environmental learning.

Centre College
Professor Patrick Kagan-Moore grew up in the Pacific Northwest, where his father was a forester with the US Forest Service. From high school through college, Patrick



worked out of Grants Pass with the Oregon State Department of Forestry. Most of that time was spent on two-man fire suppression crews in the Galice block, 150,000 acres of timbered land on the Rogue River. He spent one summer on fire lookout duty, with quite a few hours spent looking into the Kalmiopsis Wilderness Area, a true wilderness that was destroyed last year in the drought-driven Biscuit Fire which burned over 500,000 acres.

Environmentalism comes naturally from his upbringing, Patrick states, not only because his father was a forester, but that he believed in government and its power to do good. Patrick's commitment to the environment has grown over the last thirty years as he has watched the assault on government by commercial interests, lobbyists, and the political right wing. Patrick believes environmental citizenship is one of the best ways to engage people, to counter defeatism and the notion that personal decision-making is of little importance in a global world. As a parent, Patrick says he wants his children to grow up in a better world, feeling that their actions matter.