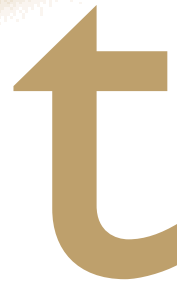


## Sustainable Campus Development Clinic II



The Associated Colleges of the South and Emory University co-sponsored the Second Annual Sustainable Campus Development Clinic (SCDCII) at the Emory Conference Center in Atlanta, November 10-12, 2000. Modeled after the 1999 Sustainable Campus Development Clinic held at Davidson College, SCDCII addressed many campus sustainability

issues, including green building design, landscaping practices, recycling and energy conservation.

The program kicked off on Friday with a session, *Greening Campus Operations*, hosted by Southface Energy Institute, and included a tour of the Southface facility in Atlanta. Twenty-one facilities' management staff learned about the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) rating system, Energy Star, environmental auditing, Life Cycle cost analysis and other cost-saving measures. That evening, teams gathered at the Rollins School of Public Health to view posters and share stories over food and drink provided by the Facilities Management Division of Emory University.

On Saturday, teams were welcomed by Dr. Wayne Anderson, ACS president, and Chip Bullock, director of campus planning at Emory University. They were followed by a keynote address on building design delivered by Dennis Creech, president of Southface Energy Institute, and two panel discussions, *Cross-Campus Team Building* and *Developing Recycling/Waste Initiatives*.

That afternoon, participants planned and developed projects and participated in practical application tours of the Emory recycling facility, a LEED construction site and the conference center.

The day culminated with dinner and the keynote address, *Sustainable Development: Implementation in Higher Education*, by George Bandy, sustainable programs manager, Interface Research Corporation, Kennesaw, Georgia.

On Sunday, Darrel Morrison, professor of landscape architecture at the University of Georgia, delivered the final keynote address, *Designing Campus Landscapes for Sustainability and a Sense of Place*. Following the address, teams completed their projects and presented them to the group for discussion.

The clinic concluded with a closing ceremony at which participants shared a memorable experience from the weekend. An overwhelming majority of participants reported that the clinic surpassed or exceeded their expectations. Participants ranked team building as the most important outcome of the clinic and green building design and ideas for native plant landscaping as the most important topics. To find out more about this event including campus plans, visit the clinic web site at: [www.colleges.org/~enviro/workshops/SCDCII.html](http://www.colleges.org/~enviro/workshops/SCDCII.html).

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# Letters

## from the ACS environmental program leaders

As the new director of the ACS Environmental Program, I admit that, at first, I was slightly intimidated by the array of environmental initiatives at ACS member institutions. How could one grant from a single foundation spawn so many programs at so many institutions? After weeks of research and conversations with program fellows, committee members and student interns, the answer became clear. There is concern among ACS faculty, staff and students for the current and future state of our environment. It was refreshing in this age of consumerism and environmental degradation to find such a dedication, and I was eager to join the ranks.

Following the ACS Program Committee Meeting, Student Intern Training Workshop, Sustainable Campus Development Clinic and an ACS Deans' Meeting, I was convinced that the ACS Environmental Program was built to last.

Along those lines, ACS staff is developing a proposal, *New Alliances in Environmental Citizenship*, to secure program funding for the next four years. As the title suggests, the centerpiece of this proposal is a series of alliances that will build on existing programs and draw on the environmental expertise that has surfaced at our member institutions over the last few years.

Individual institutions will be asked to partner to address a specific environmental topic or issue of interest to them and to ACS. Alliances are proposed in several areas including student development and engagement; curriculum and faculty development; the campus as a laboratory for sustainability; campus/community partnerships for sustainability; sustainable development in the global community; and spirituality and sustainability. Other proposal features include an expanded student internship program and a biennial symposium to disseminate and celebrate the achievements of the ACS environmental program.

If you have questions, wish to learn more or want to become involved with the ACS environmental program, please do not hesitate to contact me at 512-751-2681 or e-mail me at [waittd@colleges.org](mailto:waittd@colleges.org). Also check out the newly revised web site at [www.colleges.org/~enviro](http://www.colleges.org/~enviro) for information and program updates.

We have an exciting time ahead us, and I look forward to working with each of you in the new millennium.

*Damon Waitt*

*Director of Environmental Programs*

*Associated Colleges of the South*

Since assuming the role of ACS environmental programs coordinator in August, I have been impressed by the quality and dedication of the staff and other members of the ACS consortium. All of you have been so friendly and helpful, easing my transition into the fold.

My educational background is in zoology and environmental studies, and my work experience includes the Environmental Protection Division in the solid waste, air quality, water quality, water supply and land disturbing activity programs. I joined the biology faculty at Kennesaw State University in 1993 and currently work for both KSU and ACS.

Upon my arrival at ACS, as I was researching the background and mission of the consortium, I was asked to assist with the upcoming Program Committee Meeting, the Student Intern Training Workshop and the Sustainability Clinic. Tackling three workshops early on was

daunting, but also advantageous because it accelerated my getting to know the ACS environmental program. It also allowed me to meet many of you face-to-face.

This is an exciting time for ACS and the institutions that represent the heart of our program. In addition to thanking the ACS staff, program committee members and fellows for their patience and assistance, I also would like to thank the student interns for their hard work, dedication, collaboration and brilliant ideas for changing the world. I hope all of us will harness their enthusiasm and energy as a recharge for our own drive to make a difference.

Please let me know if you have any suggestions for change, and I look forward to working with all of you in the future! Here's to an environmentally prosperous 2001!

*Cindy Stokes*

*Environmental Programs*

*Coordinator*

*Associated Colleges of the South*

ACS Environmental Program  
web site gets a new look –

<http://www.colleges.org/~enviro>

# Survivor Meets Big Brother:

## The Eco-Cottage at Furman University

Furman University's ACS-sponsored environmental living experiment is under way after kicking off in September, 2000.

This environmental residence hall, dubbed the Eco-Cottage, was started with funding from ACS and Furman University, and with donations of time and equipment from local industries and businesses. Designed as an experiment in environmental living and to promote campus environmental awareness, the Eco-Cottage is a renovated, 25-year-old structure currently housing eight sophomores. An identical neighboring unit named the Cabin provides living quarters for comparison of energy and resource usage.

Renovations to the Eco-Cottage included adding more insulation in the ceiling and floors; new double-paned windows and doors; more energy-efficient lighting such as compact fluorescent bulbs; solar-tube skylights; energy-efficient gas water heater, drier and stove; vinyl floor tiles made from 100 percent recycled plastic and carpet with recycled vinyl backing that will be recycled by the manufacturer; and a more energy efficient refrigerator. Perhaps most visible is the addition of photovoltaic (PV) panels adjacent to the Eco-Cottage. These PV panels generate most of the daytime electrical needs of the Eco-Cottage and are tied into the Furman electrical grid. Power in excess of that which the Eco-Cottage needs is added to the Furman University system and is used elsewhere on the campus.

Students living in the Eco-Cottage are responsible for monitoring the gas, water and electrical use for both the Eco-Cottage and the Cabin. Results are posted and regularly updated on a web site that is being developed. Students are responsible for maintaining the web site as well.

In addition, the eight students are focussing on the use of environmentally friendly and recycled products, recycling and composting vegetative wastes. To ensure a strong academic component to the program participants meet regularly with faculty members and in the winter and spring terms will focus on sustainability issues. Although total energy use has not yet been calculated, a preliminary review of the data for electrical use suggests that the Eco-Cottage is using only about one-fifth of the electricity used by the Cabin.

The Eco-Cottage has received the attention of national news media and was featured recently by *The Chronicle of Higher Education* (October 27, 2000) and the local Fox Network television station. This project has prompted a closer look at current and planned construction and has elevated campus greening to new levels at Furman University.

*Contributed by:*

*William A. Ranson*

*Professor of Earth and Environmental Sciences*

*Furman University*



*The Eco-Cottage (top), on Furman University's campus, provides an ecologically sound environment for eight students who call it home. Students living in the Eco-Cottage monitor the gas, water and electrical use.*

*These photovoltaic (PV) panels adjacent to the Eco-Cottage (below) generate most of the daytime electrical needs of Furman University's Eco-Cottage and are tied into Furman University's electrical grid.*

### ACS Member Institutions

Associated Colleges of the South is composed of 15 private liberal arts colleges and universities:

Birmingham-Southern College	Rhodes College
Centenary College of Louisiana	Rollins College
Centre College	Southwestern University
Davidson College	Trinity University
Furman University	University of Richmond
Hendrix College	University of the South
Millsaps College	Washington and Lee University
Morehouse College	

# summer programs

## 2001 ACS Summer Environ

The ACS Environmental Program has seven exciting experiential learning opportunities planned for students in summer 2001. Whether interested in exploring the Great Maya Coral Reef in the Yucatan or traveling the Southwest to experience Native American traditions, there is something to meet all students' needs. For more information about summer 2001 environmental programs, go to [www.colleges.org/enviro/summer2001/](http://www.colleges.org/enviro/summer2001/).

### **Living in the Yucatan: Building Environmental Citizenship Through a Field-Based Research Course**

#### *Northern Maya Lowlands, Mexico*

Living in the Yucatan will consist of three research and study modules: Maya culture and archaeology, tropical deciduous forest ecology and the impact of development on the Great Maya Coral Reef.

The Maya culture module will explore current archaeological excavations and evaluates major reconstructed sites, while allowing students to experience the modern rural and urban culture from the Maya perspective.

Tropical deciduous ecology will be studied on the grounds of the historic Rancho Kiuic, home to one of the oldest forests in the Puuc Region of Yucatan and a well-preserved, unstudied, major Maya city. Students will collect data for a baseline species audit with graduate students and faculty from the University of Yucatan.

The final module will examine the impact of tourism on the shallow marine environment and sea turtle habitat from Cozumel and Cancun to the coast of Belize. Students will collect field data on the reefs and retrieve sediments for chemical analyses.

*Dates: May 30 - June 22, 2001*

*Fees: \$2,440 plus airfare (\$380-\$500) and meals for two weeks*

*Contact: Stan Galicki, 601-974-1340; galics@millsaps.edu*

### **Sustainable Development in Local Communities: Sustainable Development in Costa Rica**

#### *Costa Rica*

Sustainable Development in Costa Rica is a six-week summer, interdisciplinary study-abroad opportunity guided by the philosophy that people learn most effectively by seeing what they study. Throughout the summer, students will read and discuss material and work on group pro-

jects, as well as listen to lectures from ACS faculty and visiting experts. Students also will discuss sustainable development issues with Costa Rican policymakers, academics, professionals, local citizens, entrepreneurs and others.

Aside from the brief time in San Jose, participants will visit diverse ecosystems: the dry lowlands of Guanacaste in the northwest, the mountain cloud forest of Monteverde and the tropical lowland rainforest of Puerto Viejo.

*Dates: June 1 - July 15, 2001*

*Fees: Approximately \$3,500.*

*Financial Aid: Scholarships available*

*Contact: Barry Allen, 407-646-2647; ballen@rollins.edu, or Robin Gottfried, 931-598-1243; rgottfri@sewanee.edu*

### **Research Experiences for Undergraduates: River Basins Research Initiative**

#### *Furman University, Greenville, South Carolina*

Two students and two faculty members are invited to join an interdisciplinary research team investigating the water quality and aquatic biota systems in the Enoree and Saluda River basins in South Carolina. Students may be rising juniors or rising seniors majoring in biology, chemistry, geology, earth and environmental science, economics, political science

or sociology. Students will work with faculty mentors as part of an interdisciplinary research team over a 10-week period.

Two faculty also are sought to collaborate on projects within the overall river basins research program. Faculty will spend two weeks at Furman University to familiarize themselves with the research and the field area and to collect samples for their own project.

*Dates (for students): June 4 - August 10, 2001*

*Student stipend: \$3,000 plus room and board*

*Faculty stipend: \$750 plus travel, room, board and supplies*

*Contact: Kenneth A. Sargent, 864-294-3362; ken.sargent@furman.edu*

### **Center for Spirituality and Sustainability (CSS) Core Course: Holistic World Views, Spirituality, and Sustainability**

#### *Heifer Project International (HPI) Ranch, Perryville, Arkansas*

"Holistic" world views are approaches to life which insist that people cannot separate the way they live or earn a living from their spiritual and ethical experience. They tell suggest that everything people do is connected to their moral and spiritual being and that they must be aware of those connections in order to live rich and integrated lives.

# Environmental Programs Announced

This course will raise questions about the effects of consumerism as a world view and will introduce participants to traditions that offer more integrated approaches to life, such as Deep Ecology, Christian Process Theology, Native American traditions and Buddhism. Students also will study topics in spirituality in the American tradition, as well as the ways in which a consumer society usurps the language of spirit to sell. They also will study contemplative practices as a way of deepening and broadening spiritual experience. Finally, students will look at the distribution and use of resources, inequities in the global economy, as well as ways of making lives more sustainable and just, in accordance with religious and ethical beliefs.

Set at the Heifer Project International (HPI) ranch, the course will begin with a Global Village experience that offers a glimpse of the way most of the

world's people live. Participants will spend one night living like a subsistence-level farmer in a developing area, in houses replicated from Guatemala, Africa and the Appalachian Mountains. The course also will incorporate elements such as a ropes course, and innovative sessions on spirituality, sustainability and holistic world views that allow for renewing connections to the world and each other. Topics will be explored interactively to create community among the student, while making them active in the learning process.

*Student Financial Assistance:* Scholarships are available for the first 15 students who enroll. To receive assistance, the CSS Core Course must be combined with The Powers of Place conference. Assistance will cover all program fees, room and board, but students will be responsible for travel arrangements and personal expenses.



*Academic Credit:* Academic credit (3 hours) is available for students who combine the CSS Core Course with either the The Powers of Place Conference or the Experiential Course and Travel Seminar.

*Course Dates:* June 11-15, 2001  
*Fees:* \$425 (Includes all room and board at the HPI ranch and all course fees. It does not include travel to Arkansas or tuition at universities for those taking course for credit.)

*Contact:* CSS office at HPI, 501-907-2638, or e-mail [jennifer.shumaker@heifer.org](mailto:jennifer.shumaker@heifer.org)

## **The Powers of Place: Cedar, Salmon, and People**

*Whidbey Island, Puget Sound*  
“The Powers of Place” focuses on the connections between spirituality and sustainability. This two-part program will include a week of

intensive workshops and conference activities at Whidbey Island, Washington, and a week of coursework at Heifer Project Learning Center in central Arkansas. Participants will examine the connections among belief systems, rituals, lifeways and sustainability, particularly as they are connected to the place in which one lives. Participants also will experience the powers of place in ecological, historical, sociological and spiritual perspectives.

Program leaders include Alan Durning, Tom Jay and indigenous peoples from the Pacific Northwest. Durning, author of the award-winning book, *How Much is Enough?* is a former senior researcher at the Worldwatch Institute and is executive director of the Northwest Environment

*Continued on page 6.*



## Summer Programs continued from page 5

Watch. He speaks widely on environmental issues and is a commentator for National Public Radio. Jay, author of *Reaching Home: Pacific Salmon, Pacific People* and a sculptor, is active in salmon restoration and is co-founder of the citizen group, Wild Olympic Salmon. His art and work is admired throughout the Northwest.

Various faculty from ACS institutions, as well as representa-

*Contact: Laura Hobgood-Oster, 512-863-1669; hoboster@southwestern.edu*

### **An Experiential Course and Travel Seminar: Literature, Landscape, and Spirituality of the Southwest**

*Arkansas, New Mexico and Arizona*

This course will use literature, culture and travel to present alternatives to our usual approach to

with basic living and with the unique landscape of the Southwest. Participants will meet artists, storytellers and healers from traditions in which different aspects of life are integrated and rooted in a respect for the earth and its inhabitants.

Participants also will look at ways in which traditional healing practices based on story and ceremony are being integrated with Western medicine, and will hike in the places from which the stories and art arose. In the evening, discussions will surround the different aspects of the experience and the literature read.

The travel seminar begins with a one-day workshop at Heifer Project International Ranch outside Perryville, Arkansas, focusing on Pueblo, Hopi and Navajo traditions and on preparations for the trip to New Mexico and Arizona. The trip will consist of four days of travel in a small bus and six days in Arizona and New Mexico, to learn about the land and cultures.

*Dates: June 16-27, 2001*

*Fees: \$750 (Includes room, board and fees. Does not include travel to Arkansas.)*

*Contact: Conrad Shumaker, 501-450-5126; shumaker@mail.uca.edu*  
*Academic credit is available when combined with the CSS core course.*

### **Interdisciplinary Analysis of Forest Change on the Cumberland Plateau**

*Southeastern Tennessee*

Interns in this program will join an ongoing investigation of the causes and consequences of changes in forest cover on the southern Cumberland Plateau in Tennessee.

This region has been experiencing rapid conversion of mixed hardwood forests to pine monocultures and to housing developments. Previous research shows that this process of forest conversion can have complex effects on both the biodiversity of the region and on local economy.

This program will use an interdisciplinary approach to examine the biological, economic, political and ethical aspects of this issue. Faculty representing biology, economics, forestry, philosophy and political science departments from the University of the South in Sewanee, Tennessee, will participate.

*Dates: June 1 - August 10, 2001*

*Student Stipend: \$250 per week*

*Contact: David Haskell, 931-598-1918; dhaskell@sewanee.edu.*



tives of non-governmental organizations, also will be present to help facilitate the conference.

*Dates: June 3-9, 2001*

*Fees (students): \$650 (Includes room, board and conference fees.*

*Does not include travel to conference.) Student financial assistance and academic credit are available when combined with the CSS core course.*

*Fees (faculty): \$1,200 for travel, room, board and supplies*

the world and to explore ways of seeing that might enable us to live more sustainably and to help heal ourselves and the planet. It will feature special emphases on Native American culture and traditions and a trip to the Southwest to experience, firsthand, the way in which these traditions use stories and ceremonies to show the connections between the spiritual and our everyday lives.

Camping most nights will help participants get in touch

## Dr. Anderson Visits Rhodes College's Urban Environmental Initiative

**a**CS President Dr. Wayne Anderson visited Rhodes College, October 11, 2000, to promote ACS opportunities for the college's faculty and students. Anderson was invited by Rhodes College President William Troutt and Academic Dean Robert Llewellyn.

Rhodes's ACS environmental group, the Rhodes Planning Cooperative (RPC), seized this opportunity to introduce him to the college's Urban Environmental Initiative, taking Anderson on a tour entitled *The Future of Environmental and Greenspace Sustainability for Vollintine-Evergreen Community Association (VECA) and Rhodes*. During the tour, Anderson was introduced to the adjacent VECA neighborhood, the VECA Community Development Corporation and neighborhood office, the Tennessee SuperFund Site along Cypress Creek and the adjacent community park and greenway. Rhodes has developed a partnership with VECA to study environmental problems and support greenspace development.

Since Anderson's visit, VECA has installed a 10-ton bridge in the community park and greenway, an undertaking that came about through community volunteerism and the help of Rhodes students. The bridge cost \$8,000,

but is valued at \$50,000, and connects the 1.7-mile greenway used for biking and hiking through the neighborhood.

The interdisciplinary aspect of these projects is reflected in the people involved in the tour. Among the participants were Mike Kirby, professor of political science and neighborhood association organizer; Billy Newton, chaplain and head of Rhodes' Kinney volunteer organization, which provides opportunities for students to participate in community development projects; Steve Gadbois, acting executive director of the VECA Community Development Corporation, mathematician and former Rhodes faculty member; Carol Ekstrom, professor of geology, who has been sampling creek soils and sediments; and A. D. Nelson, community resident and Cypress Creek Environmental Committee member, who also has been involved in the sampling.

Rhodes is seeking other ACS schools as collaborators in a consortium urban environmental initiative through which institutions can share information and techniques used in dealing with urban environmental problems. For information, contact Ekstrom at [cekstrom@rhodes.edu](mailto:cekstrom@rhodes.edu).

*Contributed by:  
Carol Ekstrom  
Professor of Geology  
Rhodes College*



*Dr. Wayne Anderson, ACS president, tours Rhodes College's Urban Environmental Initiative. Rhodes is partnering with Vollintine-Evergreen Community Association (VECA) on this initiative.*

## Funding for Environmental Projects Available Through ACS

The Associated Colleges of the South's environmental initiative, Environmental Citizenship for the 21st Century, is pleased to announce that grant funding is still available for the 2000-2001 academic year. These grants are made possible by funding from a major foundation, and approximately \$100,000 is available for projects not to exceed \$30,000 per project, per year.

To be eligible for grants, the projects must help prepare our campus communities, with a focus on the student, for environmental citizenship for the 21st century. The projects must be collaborative in nature and extend across institutions. Projects may be proposed in one or more of the following areas, and priority will be given to projects linking two or more areas: course development, research projects, service and campus operations. Proposals to implement small-scale projects – up to \$5,000 – that demonstrate and enhance energy usage on campus also are welcome under the Environmental Citizenship umbrella.

For additional information on guidelines, proposal content and format, and the review process, please visit the Funding Opportunities page on the ACS Environmental Studies web site at: [www.colleges.org/~enviro/](http://www.colleges.org/~enviro/). Contact your institution's ACS Environmental Program Committee member if you have questions, or contact ACS Director of Environmental Programs Damon Waitt at [waittd@colleges.org](mailto:waittd@colleges.org).

# Washington and Lee University's Commons Project Looks Toward Conservation

Washington and Lee University's proposed University Commons project is designed to improve the quality of life for all of its students. Thanks to the efforts of numerous people on campus, it also is being designed to minimize the impact on the natural environment in which it will be built.

Representatives from VMDO, architectural firm for the project, and Nelson-Byrd, the landscape architect, presented a workshop, November 30, 2000, to discuss environmental issues associated with the project.

"We gave some environmental guidelines to the firms to consider in the design," said Bob Akins,

professor of physics and engineering, and chair of Washington and Lee University's Environmental Planning and Management Committee. "This workshop was a chance for the firms to show the community how they incorporated those guidelines into the design."

Among the issues considered were controlling storm water drainage into Woods Creek and energy efficiency. "We're not trying to build a 'green' building. We're trying to be reasonably efficient and respect Woods Creek."

Additionally, a team of representatives from Washington and Lee including Akins, Scott Beebe, director of the physical plant,



*Artist's rendition of the view of University Commons from Doremus Lawn. The new commons is being designed to minimize the impact on the natural environment in which it will be built.*

Tom Contos, director of facilities planning, students Blaine Clarke and Helen Downes, and three architects working on the University Commons project attended the Sustainable Campus Development Clinic at Emory University in Atlanta.

*Contributed by:  
Robert Akins  
Professor of Physics and  
Engineering  
Washington and Lee University*

The Environmental Citizen  
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