

Recent CEP Events

Kennedy speaks at Carolina

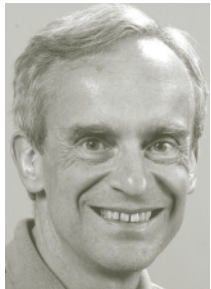
Robert F. Kennedy, Jr., of the National Resources Defense Council, Waterkeeper Alliance, Hudson Riverkeeper, Inc., Pace University and other environmental organizations, visited UNC on April 20 and 21, 2005 as the Department of City and Regional Planning's 2005 Robert and Helen Siler Distinguished Lecturer. The event was co-sponsored by the CEP and several other UNC units. Kennedy appeared at a reception, gave a free public lecture, signed hundreds of books, and taught an environmental seminar for UNC students and faculty.



Robert Kennedy, Jr. discusses environmental issues with UNC faculty and students during a seminar he taught while visiting UNC in April.

CEP hosts symposium on environmental values

In March, the CEP hosted "Perspectives on Environmental Values," a two-day symposium focusing on aspects of the natural world that people care about and why. The symposium, which is part of an annual series sponsored by the CEP, deepened participants' understanding of the different ways people value the natural world and stimulated creative thinking about how to factor these values into environmental policymaking. The event was led by Doug MacLean, professor of philosophy and director of UNC's Parr Center for Ethics, which co-sponsored the symposium.



Doug MacLean

Panel members included experts in philosophy, economics, law, biology, public policy and nature writing.

Symposium for N.C. high school students focuses on climate change

April's UNC-Chapel Hill Science Spectrum Symposium – a free program that brings North Carolina high school students to UNC for high-level classroom and lab experiences – focused on "Global Climate Change: Human Causes and Human Responses." Experts from UNC and the N.C. Office of Environmental Defense discussed how scientists study and model the phenomena of greenhouse gases such as carbon dioxide and climate change, how they predict the effects of this change on human and ecosystem health, and how policymakers use these predictions to design responses to climate change. The event was presented by UNC's Office of Undergraduate Admissions, co-sponsored by the Carolina Environmental Program and supported by a gift from Cherokee Investment Partners of Raleigh and UNC alumnus (and CEP Board of Visitors member) Tim Toben of Chapel Hill.

Upcoming 2006 CEP events

2005/2006 CEP Environmental Seminar Series

Bob Costanza, Gund Professor of Ecological Economics and Director of the Gund Institute for Ecological Economics, University of Vermont, Spring 2006, date, time and place t.b.d.

2006 CEP Environmental Symposium

Safe Drinking Water: Where Science Meets Policy, William and Ida Friday Center for Continuing Education, UNC-Chapel Hill, March 16–17, 2006

CEP Annual Commencement Reception

1 p.m., May 14, 2006, UNC-Chapel Hill, location t.b.a. Speaker: Jane Preyer, Director, N.C. Office of Environmental Defense

Carolina Environmental Program

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ENVIRONMENT ON CAMPUS

Carolina goes “green”

Two high-performance buildings with environment-friendly designs have already been built on the Carolina campus, with more to come

When it comes to “green building,” it’s all part of the master plan.

That’s UNC’s Campus Master Plan, a long-term development plan that incorporates the full range of smart growth principles. “Green building”—a collection of land use, building, interior design and construction strategies that reduce environmental impacts — is an essential part of the plan. Benefits include reduced energy, water and materials consumption; lower life-cycle costs; protection of ecosystems; and improved occupant health and productivity.

UNC’s Sustainability Office, led by Cindy Pollock Shea, works with campus designers and architects to institute green building standards for all

High school students learn about green (high-performance) buildings at the Rams Head Center.

new buildings. Carolina’s standard draws on the U.S. Green Building Council’s Leadership in Energy and Environmental Design (LEED) guidelines. These voluntary criteria promote design and construction practices for buildings that are environmentally responsible, healthy places to work. From installing low-flow showers and faucets in residence halls, to use of recycled and recyclable materials, to construction waste management and ener-

gy-saving systems—even using materials bought regionally, so they are shipped shorter distances—UNC is finding innovative ways to make the campus more environmentally friendly.

Three new or planned buildings on

the UNC-Chapel Hill campus are setting the standard for “greenness”:

THE RAMS HEAD CENTER — a new student complex that includes a dining hall, recreation center and

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Sustainability Committee guides campus leaders

With Carolina’s campus growing in leaps and bounds, campus leaders are looking for ways to ensure that this growth occurs without adversely affecting the environment. To help guide development plans while meeting the highest standards of sustainability, in 2004 Vice Chancellor for Finance and Administration Nancy Suttentfield established a University Sustainability Advisory Committee.

The committee brings together faculty, staff and students representing diverse perspectives, from facilities, energy and purchasing, to education and research, to identify opportunities for UNC to improve sustainability in each of these areas.

UNC Director of Facilities Services Jim Alty, who co-chairs the committee along with CEP Director Doug Crawford-Brown, finds that the different perspectives lead to cross-fertilization of ideas. For instance, he has applied some of the committee’s ideas about purchasing to his own department’s procedures. “Having a body of people from across the university who work in different capacities allows us to think outside the box, rather than being constrained by one particular program or aspect.”

Carolina Environmental Program

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RESEARCH

It’s Our Policy

Environmental policy expertise abounds at Carolina, where the focus is on applying scientific knowledge to solve pressing environmental issues

The natural sciences have generated a wealth of information about the causes and extent of environmental problems, but to manage these problems successfully we must also consider the environmental consequences and the economic, political and legal ramifications of public policies. These include not only policies intended to protect the environment, such as air and water pollution regulations, but also those intended for other purposes that affect the environment, such as promoting economic development.

The University of North Carolina at Chapel Hill, with its strong core of faculty interested in studying how to apply scientific knowledge to generate solutions for pressing environmental issues,

is currently ranked tenth in the nation in the area of environmental management and policy by *U.S. News & World Report*.

Carolina’s leadership in environmental policy dates back to the 1920s, when the sanitary engineering program established itself at the forefront of addressing water quality concerns in North Carolina, the U.S. and worldwide. Although the science and engineering aspects of providing safe, plentiful drinking water were often clear, determining how to implement these programs in places that had no regulatory structure or agency responsible for bringing the water into communities was a challenge. To address these issues, UNC faculty began to focus not only

on the science and engineering, but also their application in policy decisions around the world.

That work eventually grew into the Environmental Management and Policy Program within the Department of Environmental Sciences and Engineering, and was one of the major roots of environmental policy expertise at UNC. Over the years, other roots grew in the Departments of City and Regional Planning and Public Policy, the School of Government, and the Kenan-Flagler Business School, whose Center for Competitive Economies and Center for Sustainable Enterprise address environmental implications of economic development and business decision making. Today, environmental

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EDUCATION AND RESEARCH

UNC faculty and CEP board member elected to prestigious national academies

Dr. Joseph M. DeSimone, W.R. Kenan Jr. Distinguished Professor of Chemistry and Chemical Engineering at UNC-Chapel Hill and NC State University, has been elected to the National Academy of Engineering and the American Academy of Arts and Sciences.

DeSimone, who holds more than 100 U.S. patents and has published over 200 papers, has been widely recognized for discovering a revolutionary way to use carbon dioxide in place of conventional organic solvents for environmentally responsible manufacturing, cleaning and processing. His method has already led to the development of a new kind of Teflon and a form of dry cleaning that produces no hazardous byproducts.

DeSimone, a member of the UNC faculty since 1990, directs UNC's new Institute for Advanced Materials,

Nanoscience and Technology, an interdisciplinary endeavor drawing on the university's research strengths in polymer science, nanomaterials and nanobiosciences, and involving faculty from the Curriculum in Applied and Materials Sciences and the Departments of Chemistry, Computer Science, Mathematics, and Physics and Astronomy. He also is director of the National Science Foundation's Science and Technology Center for Environmentally Responsible Solvents and Processes, a collaborative endeavor with five universities. From 1996 to 2003, he was chairman and co-founder of Micell Technologies, Inc., the company that pioneered the carbon dioxide dry cleaning technology.

Election to these prestigious national organizations is among the highest professional distinctions in these fields. The

National Academy of Engineering is a private, nonprofit institution that advises the federal government and conducts independent studies on important topics in engineering and technology. In February, DeSimone was announced as

one of 74 new members nationally. He is the sixth UNC faculty member elected to the academy.

DeSimone was one of two UNC faculty mem-



Dr. Joseph M. DeSimone

bers elected fellows of the prestigious American Academy of Arts and Sciences this year in recognition of "preeminent contributions" in their fields. This

brings the total number of UNC faculty members who have been elected to academy membership to 27. Among the 196 fellows and 17 foreign honorary members named to the prestigious academy this year are late U.S. Supreme Court Chief Justice William Rehnquist, painter Jeff Koons, Nobel Prize-winning physicist Dr. Eric Cornell and journalist Tom Brokaw.

"Joe DeSimone has been a leader in bringing fundamental research on chemistry into applications in environmental solutions," said CEP Director Doug Crawford Brown. "Programs across the Carolina campus regularly benefit from his expertise and example. We congratulate him on this well deserved recognition, and are especially proud to have him as a member of the CEP Board of Visitors."

OUTREACH

Yes, in my backyard!

Through its Backyard Pollution Prevention workshop, the CEP's Environmental Resource Program teaches homeowners how they can make a difference

What can North Carolina homeowners do to reduce the most common pollutant in our state's freshwater streams? The answer is: plenty.

To raise awareness about the impact of stormwater pollution on human health and water quality in the Neuse River Basin (the watershed for most of the Triangle region) and potential solutions, the staff of the CEP's Environmental Resource Program (ERP) has worked with UNC scientists, community-based organizations and environmental education professionals to develop an innovative workshop for homeowners.

Backyard Pollution Prevention explains the impacts of stormwater pollution and guides participants through hands-on exercises that encourage them to consider steps they can take to reduce stormwater pollution in their own backyards. Topics include assessing yards for pollution sources, practicing responsible home, lawn and vehicle maintenance, and using native plants and rain gardens in landscaping.

The Backyard Pollution Prevention workshop, which was funded with a gift from Progress Energy, was piloted with UNC students and staff working on

environmental issues and at the Chapel Hill Public Library for Orange County homeowners through a partnership with the Town of Chapel Hill's Stormwater Management Division. In April 2005, a workshop was held for high school students at the North Carolina Museum of Life and Science to foster interest in environmental science careers and original scientific thought among the largely minority and female participants.

In May, ERP Research Associate Diana Degen led a free Backyard Pollution Prevention workshop for 16 homeowners at the Main Library in Durham through a partnership with the City of Durham Stormwater Services Division, the N.C. Botanical Garden and the Ellerbe Creek Watershed Association. After the presentation, the homeowners toured two yards that demonstrated common residential stormwater pollution problems and solutions. Participants enjoyed the emphasis on practical solutions, and the opportunity to hear ideas for dealing with stormwater runoff in their yards.

"Urban stormwater runoff and storm sewers are the primary contributors to



Workshop participants learn how to minimize their contributions to stormwater pollution.

impaired waterways in North Carolina," said ERP Director Kathleen Gray. "This workshop has been a wonderful way to increase awareness about stormwater pollution among interested homeowners and residents in the community, and to give them practical ideas that they can implement to reduce their impact on stormwater pollution. We hope to secure additional funding so that we can continue this important work."



Workshop participants view a possible rain garden site.

PHILANTHROPY

Four join CEP board

The Carolina Environmental Program is pleased to welcome four new members to its Board of Visitors. We appreciate their willingness to volunteer their time to serve the CEP.

Kirk J. Bradley is chairman, president and CEO of Lee-Moore Oil Company, a family-owned business that operates in the convenience retail and motor fuels distribution, real estate investment and venture capital industries. He is also chairman and president of Governors Club Development Corp. in Chapel Hill. Bradley serves on advisory boards for the Duke Heart Center and RBC Centura Bank and as a trustee of the Civil War Preservation Trust. The former director of the Triangle Land

Conservancy earned his undergraduate degree at the University of Georgia and his MBA at Duke's Fuqua School of Business.

Stephen G. De May is vice president of energy and environmental policy for Duke Energy. Before joining Duke Energy in 1990, De May, a CPA, served as senior tax consultant for Deloitte & Touche and tax consultant for Price Waterhouse. He earned a BA in political science at Carolina and an MBA degree from the McColl Graduate School of Business at Queens University of Charlotte. He is also a member of the university's Board of Visitors.

Timothy P. Toben is the founder and former CEO of Knowledgebase

Marketing, a Chapel Hill database marketing firm that was sold in 1999 to Young & Rubicam. Prior to founding KBM, Toben was founder and CEO of Customer Management Services in Chapel Hill. He currently serves on the Boards of the N.C. Office of Environmental Defense and Duke's Nicholas School of the Environment and Earth Sciences. Toben received his bachelor's degree from UNC-Chapel Hill in 1981 and a master's degree from University of the Pacific. In 1999, he acquired the 350-acre Pickards Mountain Natural Area in western Orange County and placed much of it in a "Forever Wild" Conservation

Easement with the Conservation Trust of North Carolina.

Thomas F. Valone, of Raleigh, is president of the Great Outdoor Provision Company, a North Carolina-based chain of outdoor clothing and equipment stores. He received a BA in American studies from Carolina in 1972. Valone, whose primary environmental interests are open space, water and air quality, and wildlife habitat, has served as advisor to the Blue Ridge Parkway Foundation and on the boards of the Retailers of Outdoor Industry, Montessori School of Raleigh, and the Business Council for the North Carolina Museum of Art.

Carolina Environmental Program

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EDUCATION

Onward and Upward

From jobs at environmental organizations and businesses, to graduate school, to Teach for America and Americorps, the 49 members of the CEP's Class of 2005 have moved on to bigger and better things. Here's a sample of what this year's graduates of UNC's BA in Environmental Studies, BS in Environmental Science and BSPH in Environmental Health Science are up to now:

Katie Burke (BS) is a doctoral student in the University of Virginia's Department of Biology in Ecology and Evolution. She is studying Appalachian land use change and forest ecology at the Mountain Lake Biological Station in Virginia.

Becky Burns (BA) is participating in a US/Canada exchange program with the Student Conservation Association. After three months as an assistant to the Bay of Fundy Baykeeper for the Conservation Council of New Brunswick in Canada, she is now working for the U.S. Park Service in marine conservation in New York City.

Laine Cidlowski (BA) is working on a master's in city and regional planning at the University of Pennsylvania with a concentration in environmental studies, sustainable infrastructure and technology. She spent the summer as a neighborhood walkability auditor for the Carolina Population Center.

David McCarty (BA) is a Fulbright Scholar at the University of the Andes in Bogotá, Colombia, where he is studying city and transportation planning. Bogotá has a reputation as one of the more progressively planned cities in Latin America, and David hopes to learn from the measures they have taken and their subsequent effects on quality of life in the city.

Carolina Goes Green
continued from page 1

grocery store — features several green elements, most notably a “green roof” that captures rainwater to use for irrigation. Vegetated roofs reduce stormwater runoff and sewer costs, extend the life of roofing systems, improve air quality, reduce noise levels—and add to campus aesthetics. At Rams Head—formerly a surface parking lot in a steeply sloped bowl—the new roof plaza connects south campus residence halls to north campus classrooms. Other green features include a food pulper and dehydrator for composting food waste from the dining hall, the refinement of waste kitchen grease into biodiesel fuel, and use of recycled building materials (for instance, a portion of the old Woollen Gym floor was used to face the sports café's counters). Most importantly, the complex provides dining, recreation and shopping within walking distance for 8,000 residential students, thus reducing transportation costs and pollution.

THE SCHOOL OF NURSING BUILDING

ADDITION is the first facility in the 16-campus UNC system with a pending LEED certification. In addition to its green roof, it includes environmentally friendly building materials such as natural linoleum, water-efficient landscaping and water-conserving features in the restrooms. The building's thin profile provides an abundance of natural day-



The green roof on the UNC School of Nursing building addition.

light and reduces energy costs. Temperature and humidity monitoring systems provide a healthy, comfortable environment. Nursing faculty, staff and students will be surveyed to determine the building design's impact on their health, satisfaction and productivity.

“The School of Nursing is proud to be a part of the university's effort to adopt more sustainable practices, and hopes that we can inspire others to follow our lead,” said Dr. Linda Cronenwett, the school's dean. “The building's green features help demonstrate our commitment to improving the health and well being of all people.”

THE VISITOR EDUCATION CENTER AT UNC'S NORTH CAROLINA BOTANICAL GARDEN could become one of the few LEED platinum buildings in the country. This proposed facility will incorporate green technologies such as photovoltaic panels that capture solar energy to generate electricity and geothermal wells that use constant underground temperatures to cool in summer and heat in winter. The state-of-the-art building will include open breezeways, extensive use of natural light and educational exhibits to teach visitors about the green features.

“As a ‘conservation garden,’ our mission incorporates the concept of sustainability in the relationship between people and the environment,” explained Peter White,



The proposed Visitor Education Center at UNC's North Carolina Botanical Garden will be a LEED platinum building.

director of the Botanical Garden. “The green building will be a reflection of our mission, as well as a demonstration building where the public can see this leadership in design.”

CEP leaders and its Board of Visitors hope that, in the near future, plans will begin for a state-of-the-art UNC environmental science and studies building with a design that meets LEED platinum standards. Says Board Chair Edie Cecil, “Creating a building that meets the highest standards of envi-

ronmental design will send a strong signal to the public that the university and the State of North Carolina are committed to the environment and to environmental research. This is a wonderful opportunity to create a daily laboratory for the study and advancement of high-performance building design.”

For more information on sustainability efforts at UNC, visit <http://sustainability.unc.edu>

UNC's Sustainability Office works with campus designers and architects to institute green building standards for all new buildings.

EDUCATION

Hail to the Class of 2005!

The 2005 CEP Graduation

2005 CEP unit commencement speaker
The Honorable
Bill Ross, secretary,
N.C. Department of
Environment and
Natural Resources.



CEP 2005 graduates,
family and friends
celebrate receiving
their degrees.



CEP Director, Student Affairs
Greg Gangi presents a
CEP diploma to a 2005
program graduate as
CEP Deputy Director and
Associate Director for
Research Programs David
McNelis congratulates her.



It's Our Policy continued from page 1

policy specialists come from all corners of Carolina's campus, and the Carolina Environmental Program helps coordinate their efforts.

Several UNC faculty members, in particular, are recognized internationally for their contributions to this field.

Richard "Pete" Andrews, the Thomas Willis Lambeth Distinguished Professor of Public Policy, believes that protecting and sustaining our natural environment requires not only managing the environment, but also managing ourselves, through appropriate and effective public policies.

"Sustaining our environment is an essential element of good economic development policy," he said. "It offers opportunities for many communities and businesses to prosper by protecting their environmental resources, as well as serious risks if they fail to do so. Many environmental problems are inherently public policy issues, because they involve conflicts and 'tragedies of the commons' in our uses

UNC-Chapel Hill is currently ranked tenth in the nation in the area of environmental management and policy by *U.S. News & World Report*.

of public lands, waters, air and other natural resources. Better science and technology can help, but ultimately we must work together to create effective policy incentives for businesses and governments as well as individuals to make environmentally sustainable decisions."

Andrews, former director of the UNC Institute of Environmental Studies (the predecessor of the CEP), has a longstanding interest in the link between analysis, policy incentives and environmental outcomes. He has recently been studying the impact of the environmental management systems established by many businesses and government agencies, and has done policy research in Europe and Asia as well as the United States. He co-authored a National Research Council study of

research priorities for environmental decision making, and is currently studying North Carolina's new "Clean Smokestacks" law and finishing a second edition of his book on the history of American environmental policy.

Mike Luger, director of the UNC Center for Competitive

Economies and professor of public policy, business and city and regional planning, is an economist who focuses on envi-

ronmental infrastructure and the economic impacts of environmental policy. He just finished a project on the economic savings from reducing environ-

mental damage by using coastal warning systems to track hurricanes and tsunamis, which was funded by the National Oceanic and Atmospheric Administration. With CEP Director Doug Crawford-Brown, he is seeking grant support to study the economic and societal impacts of the hog industry and its clean-up in eastern North Carolina.

Luger was drawn to UNC as an ideal place to focus on environmental policy. "There is absolute freedom here to work with people across the campus, and because of Carolina's tradition of colle-

gial partnerships, the whole is greater than the sum of the parts. In addition, the university does an excellent job connecting the social science

and policy side of the environment with the science side, and maintains a strong commitment — as the flagship campus of the state university system — to applied research for the public interest."

Andrews, Luger and Crawford-Brown recently launched a research initiative called Sustainable Energy, Environment and Economic Development (SEEED). "Environmental public policy can be a tool for generating new industries and businesses," Crawford-Brown explained. "Through SEEED, we can advise North Carolina legislators, businesses and others on how to think about and plan for issues such as global warming and climate change and the forecasted shift from dependence on fossil fuels to biofuels."

The CEP is also working with Duke's Nicholas School of the Environment and Earth Sciences to form the Duke-Carolina Environmental Alliance, a joint effort to approach environmental policy from the individual to the global levels. The Alliance will include shared courses, collaborative research and practice, and jointly issued policy statements. The hope is to expand it to include environmental partners at NC State and North Carolina Central University.

"Duke and UNC contain a range and depth of environmental expertise unmatched nationally," said Crawford-Brown. "By bringing that expertise together, the Alliance will address the complete range of societal needs in environmental education, research and service."



Pete Andrews



Mike Luger



Douglas Crawford-Brown