

PHILANTHROPY

CEP welcomes three board members

By Rebecca Rudd, CEP Public Affairs Intern

The Carolina Environmental Program is pleased to welcome three new or returning members on its Board of Visitors this year. We appreciate their willingness to volunteer their time to serve the CEP.

Mike Leonard returns to the board. A partner at Womble Carlyle Sandridge & Rice, PLLC in Winston-Salem, Leonard has long been interested in conservation. In fact, he won an environmental essay award from the North Carolina Wildlife Federation in 1970, when he was still in high school. He has worked in the area of conservation-oriented land use development in the southeast, particularly in western North Carolina. Among the awards he has won for his conservation efforts are the Chapter Service Award from the N.C. Sierra Club,

The Nature Conservancy's Oak Leaf Award, the Chevron Conservation Award, and the State University of New York at Rochester's Sol Feinstone Award. Leonard's conservation efforts have most recently led to the establishment of the Jocassee Gorges State Park in North Carolina. Leonard, who earned his BA in 1975 and JD in 1978 at Carolina, resides in Bethania, North Carolina.

William Clarke, an attorney at Roberts & Stevens, an Asheville-based firm, has also rejoined the CEP board. Clarke specializes in environmental issues, including water quality, contaminated property and sedimentation/erosion control. He has also been involved with the conservation of land in

western North Carolina. Clarke serves on the board of Environmental Defense, and was recently named chair of the board of the Golden LEAF Foundation. After earning his undergraduate degree at Princeton, he graduated from the Law School at Carolina.

Deborah Lambertson Hill earned her BA in Psychology in 1975 and her master's in Social Work in 1987 from UNC. She lives in Hillsborough and works as a psychotherapist in Chapel Hill, maintaining a lifetime interest in environmental issues. Her father, the late Watts Hill, Jr. was a founding member of the CEP board that she now joins. ■

Carolina Environmental Program

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Upcoming 2004 CEP events

Third Annual (2004) Community Modeling and Analysis System (CMAS) Models-3 Conference

OCTOBER 18-20, 2004
William and Ida Friday Center
for Continuing Education,
UNC-Chapel Hill

CEP Environmental Colloquium: Valuation and the Environment

MARCH 4-5, 2005
James M. Johnston Center
for Undergraduate Excellence,
UNC-Chapel Hill

CEP Annual Commencement Reception

MAY 15, 2004 • 1:00 PM
Miller Hall Lawn,
UNC-Chapel Hill

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RESEARCH

Environment 360°

CAROLINA TACKLES ENVIRONMENTAL ISSUES FROM EVERY ANGLE – a commitment that's earning UNC growing recognition as one of the nation's leading multidisciplinary academic programs

Did you know...

...aspects of the environment are covered in almost every school at Carolina, from Public Health, Medicine, Business and Law, to the College of Arts and Sciences, Government, Education and Journalism and Mass Communication – and that the Carolina Environmental Program helps bring all of these diverse interests together?

...Carolina's commitment to environmental education and research dates back to the 1920s, when its program in sanitary engineering was created to address that age's most pressing environmental issue?

...U.S. News & World Report ranks UNC-Chapel Hill's programs in environmental engineering and health and environmental policy and management among the ten best in the United States?

...more than 125 Carolina faculty members across the campus are engaged in environmental teaching and research?

...UNC has demonstrated national leadership in the areas of water quality and water resources, air quality and health risks, environmental modeling, land conservation and development?

...more than 600 Carolina students are enrolled in ten environmental master's and doctoral degree programs and eight environmental undergraduate degrees – and many more take individual environmental courses?

Carolina has built a reputation for excellence in several areas of environmental study. Our world-class programs in water quality and quantity and watershed health and restoration have been built upon our historical strength in this area. We have strong programs in the chemistry and health affects of air pollution, environmental modeling, city and regional planning, environmental policy, and environment and business. With the U.S.

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UNC Environmental Sciences and Engineering Professor Phil Singer (right) with a PhD candidate. Singer, who is also director of UNC's Drinking Water Research Center, a member of the National Academy of Engineering, and a world-renowned authority on drinking water, wastewater treatment and aquatic chemistry, is one of over 125 environmental faculty at Carolina.

Carolina Environmental Program

Board of Visitors

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UNC top quality in air quality

World's policy makers and scientists look to Carolina for leadership in the field

By Rebecca Rudd, CEP Public Affairs Intern, and Laura Ertel



Rich Kamens (center) uses air chambers to search for tiny airborne particles that can damage human health, compromise ecosystems, and impact visibility.

At UNC's smog chambers in Chatham County, Rich Kamens hooks up a diesel car to a chamber and adds small amounts of exhaust to the air inside.

His goal is to create a snapshot of what's going on in the atmosphere, so he and his team can determine the chemical process by which particles in the atmosphere – dust and fine aerosols emitted by cars, trucks, buses, power plants and many other sources – are transformed into air pollution and haze. When they

in the real atmosphere and, ultimately, determine the optimum control strategies to reduce the atmospheric generation of fine particulate matter.

Kamens, a professor in UNC's Department of Environmental Sciences and Engineering, is one of the world's foremost authorities on predicting fine aerosol production in the atmosphere.

What Kamens does for particulates research, Harvey Jeffries does for ozone and other gas phases. Scientists and policy

figure out the chemistry in the chamber, Kamens' team develops mathematical models that can predict what will happen

makers worldwide look to Jeffries for leadership and counsel: in fact, he has trained most of the newest generation of leaders in air quality modeling.

The challenge with ozone, explained Jeffries, who is a professor of Environmental Sciences and Engineering at Carolina, is that "it isn't emitted by anybody: it is made when compounds combine in the air, so you can't just stop emitting it. Instead, you have to figure out the chemistry that makes this human toxin. And, because reducing oxides and nitrogen in a city's air doesn't necessarily reduce the ozone level – in fact, it could increase it! – strategies for fixing these problems vary from city to city, from day to day."

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EDUCATION AND RESEARCH

Newest CEP faculty member shares joint appointment with Biology

In January, Dr. Charles Mitchell will join the UNC-Chapel Hill faculty with a joint appointment in the Department of Biology

and the Carolina Environmental Program. He is the latest hire in the CEP's commitment to recruit several bright young academics to help advance the UNC Ecology Curriculum to the next level of success.

Mitchell comes to UNC from Cornell University, where he has been a postdoctoral fellow studying the ecology of infectious diseases in plants. As a UNC assistant professor, he will teach several courses for

undergraduates and graduate students in the Ecology Curriculum and the Biology Department. Possible topics include the ecol-

ogy of infectious disease and the biological consequences of environmental change.

Among Mitchell's research interests is how different forms of environmental change influence the spread of infectious diseases, and the resulting ecological consequences. For example, he plans to look at how increased concentrations of carbon dioxide in the atmosphere influence disease in plants, and how this affects the ecosystem's ability to remove carbon dioxide from the atmosphere. He is also increasingly focused on the processes that control the spread of invasive plant species, such as North Carolina's infamous kudzu. The ultimate goal of this work is to facilitate conservation of ecological communities that are being impacted by human activities. Most of his research will be done at local field sites, including the Mason Farm Biological Preserve, part of UNC's Botanical Garden.

"Having a joint appointment really reflects my interdisciplinary interests," said Mitchell. "I am a biologist, but my work is

very focused on environmental issues, so having the ecology appointment will open me up to a lot of interdisciplinary collaborations and teaching opportunities.

"I'm broadly interested in interactions between human activities and the environment, so my interests overlap pretty strongly with the CEP. The CEP will give me an opportunity to collaborate and interact with scientists, faculty and students with training in areas that are complimentary to mine."

Dr. Steven Matson, chair of the Department of Biology, where Mitchell will hold his primary appointment, looks forward to welcoming the department's newest faculty member. "Dr. Mitchell has already established a significant reputation as a conservation biologist, and we are confident he will strengthen the ties between Ecology, Biology and the CEP." ■

Courtesy of Cornell University



Dr. Charles Mitchell

PHILANTHROPY

Mary and Watts Hill, Jr. endowments benefit CEP and Marine Sciences Program

Mary and Watts Hill, Jr.'s (from left, standing) daughter Debbie, son Tripp and daughter-in-law Shirley with Mary Hill (seated) at a Carolina Inn luncheon honoring the signing of the Mary and Watts Hill, Jr. endowment agreements.



photos courtesy of Mary Hill



(From left) UNC College of Arts and Sciences Dean Bernadette Gray-Little, Chris Martens, Mary Hill (seated) and Doug Crawford-Brown at the luncheon.

The Carolina Environmental Program, the Institute of Marine Sciences and the Department of Marine Sciences at UNC-Chapel Hill will all benefit from a suite of endowment gifts contributed by Mrs. Mary Hill in honor of her husband, the late Watts Hill, Jr. Watts Hill, Jr. was a founding member of the Boards of Visitors of both the CEP and the Marine Sciences Program. Throughout his life, he was strongly connected to nature, the environment and conservation, and

was particularly interested in coastal and water issues – interests that Mrs. Hill has shared.

The gift will establish two Mary and Watts Hill, Jr. Distinguished Professorships in Marine Sciences and the Carolina Environmental Program, which will help recruit and retain outstanding faculty. The Mary and Watts Hill, Jr. Distinguished Professors will hold joint appointments in the CEP and in the Department or Institute of Marine Sciences, and will promote links between environment, marine sciences and policy. The Mary and Watts Hill, Jr. Student Internship Fund will provide several paid internships each year for UNC undergraduate students to work on projects related to coastal North Carolina at CEP field sites in Morehead City and Manteo, and in Chapel Hill. These internships will aid Carolina in attracting talented students to our programs. In addition, the Mary and Watts Hill, Jr. Unrestricted Endowment Fund will be used at the discretion of the CEP director to support related projects.

"This generous gift will allow us to solidify our efforts in coastal and estuarine studies, creating opportunities for both students and faculty to interact with our coastal field sites, and greatly improving the interdisciplinary study of links between coastal estuarine processes, development patterns and policy," said CEP Director Doug Crawford-Brown.

"This gift, and the uses to which we will put it, perfectly captures both the interests and spirit of Mary and Watts, as it combines coastal issues, undergraduate education and research focused on the real-world needs of citizens in North Carolina. This gift will make it possible for a much larger pool of students to attend the coastal sites, and for faculty to participate in the teaching, research and outreach at those sites."

"Watts and Mary Hill have never sought to be highly visible; they prefer to contribute to the successes of many others," noted Chris Martens, William B. Aycock Professor of Marine Sciences, who knows the Hills well. "Together, Mary and Watts saw what could be accomplished by further development of both Marine Sciences and the CEP and contributed through leadership as well as outright gifts. This gift is particularly meaningful because it knits together Marine Sciences and the CEP in ways that should prove particularly beneficial to the state of North Carolina and to solving problems of the coastal zone faced around the world. Watts and Mary have thus had a major hand in influencing the progress of such interdisciplinary research and teaching at their beloved home institution, the University of North Carolina at Chapel Hill." ■

PHILANTHROPY

Gifts to the CEP recognized



Highlands Biological Station

Andrea Jones receives the first Governor and Mrs. Dan K. Moore Fellowship to Keep North Carolina Clean and Beautiful awarded at UNC-Chapel Hill.

Sciences in Morehead City, North Carolina, focuses upon coastal, near-coastal and marine issues.

A contribution from the Raleigh, N.C. based Ella Ann L. and Frank B. Holding Foundation supports two paid internships for UNC undergraduates attending CEP field

sites this fall. The Ella Ann and Frank Holding Environmental Interns will both attend the fall 2004 session of the program's Highlands Field Site, which focuses upon biodiversity in the southern Appalachians.

NC Beautiful's long-standing Governor and Mrs. Dan K. Moore Fellowship to Keep North Carolina Clean and Beautiful program, founded in 1995 in cooperation with North Carolina State University, has been expanded to UNC-Chapel Hill and will be administered at UNC by the CEP. The first Governor and Mrs. Dan K. Moore Fellow at UNC is Curriculum in Ecology doctoral candidate Andrea Jones. Her research focuses on *Packera millefolia*, a rare flowering plant native to the southern Appalachians. NC Beautiful, which funds the fellowships, is a nonprofit organization focused on protecting, preserving and enhancing the state's appearance, as well as educating students and citizens about sustaining the environment for future generations.

A grant from the Z. Smith Reynolds Foundation of Winston-Salem, N.C., supports the CEP-administered phase II of the N.C. Department of Environment and Natural Resources/UNC-Chapel Hill *One North Carolina Naturally* project (see *The CEP Post* Volume

2, Issue 1). Phase II will include the integration of a GIS mapping tool on the *One North Carolina Naturally* web site, www.cep.unc.edu/oncn, and development and installation of a decision support system to help inform regional land conservation efforts. It also includes a second round of regional *One North Carolina Naturally* meetings.

The Wallace Genetic Foundation, of Washington, D.C., funded *Health-Based Policy in the Neuse River Watershed*, a project headed by CEP Director Doug Crawford-Brown, which expands UNC's research efforts in this critical part of North Carolina. *Health-Based Policy in the Neuse River Watershed* personnel are looking at how specific activities in the watershed, such as confined animal feeding operations (CAFOs), municipal waste and suburban development, affect the movement of nutrients and microbes into the river and the health of citizens using the water for drinking or recreation.

The late Shirley Rabb Winston, of Virginia Beach, Virginia, left a bequest to UNC founding the Robert Alonzo Winston Conservation Scholarship Fund, which is administered by the CEP. The fund, which provides scholarships to UNC undergraduates with an interest in conservation, honors the late Robert Alonzo Winston, an 1899 Carolina graduate.

Gifts and grants from these and many other donors help the CEP advance environmental study, research and public service at UNC. We thank them for their generous support. ■

The Carolina Environmental Program is a participant in UNC's Carolina First campaign. This crucial fundraising effort, which focuses on providing support for UNC students, faculty, research, facilities and strategic initiatives, runs through June 2007.

Environmental programs at Carolina are a campaign priority. The program has received a number of generous campaign gifts since the last issue of *The CEP Post*.

Anonymous donors gave two need-based awards every year for the next five years to support UNC undergraduates attending the program's Albemarle Ecological Field Site (AEFS). AEFS, based in Manteo, North Carolina, cooperates with the UNC system's Coastal Studies Institute to provide field experience for UNC undergraduates and environmental public service for its host community. Its programs focus upon better understanding of biodiversity in North Carolina's Outer Banks region.

Ann Colley, of New York, New York, gave two awards for UNC undergraduate students. One will support a student attending the Fall 2004 AEFS session, and the other will support a student attending the program's Morehead City Field Site this fall. The Morehead site, based at Carolina's Institute of Marine

Environment 360° – continued from page 1

Environmental Protection Agency's human studies division located right on our campus, UNC has unparalleled ability to study the health effects of air and water pollutants. Environmental policy is also a forte, bringing together the expertise of the Departments of Public Policy, City and Regional Planning, Environmental Sciences and Engineering and the School of Government to create a nationally top-tier policy program. The university is also rapidly building its programs in conservation, biodiversity and ecology, and in marine sciences.

In the 1990s, university leaders realized that, while the Carolina faculty had substantial expertise in a wide range of environmental areas, the campus could benefit greatly from central coordination of these programs. The Carolina Environmental Program was created to enhance communication, interaction and collaboration between all environmental units on the campus, to make it easier for interested parties to find out about the entire range of environmental programs at UNC, and to create new programs where these were needed.

University Executive Vice Chancellor and Provost

Robert Shelton called the Carolina Environmental Program "the epitome of UNC-Chapel Hill's commitment to the state. Through the CEP, we address the priorities of our Academic Plan. In particular, we provide powerful, hands-on academic experiences for our students; demonstrate the impact of multidisciplinary research, education and public service; enhance engagement with the public; and realize a global presence. Our students are well-served by the CEP experiences that engage them in solving some of the most important problems facing our society."

"The CEP is a consortium of all of the environmental programs across our campus – but it's even more," explained CEP Director Doug Crawford-Brown. "We are charged with developing and managing several undergraduate degree programs, encouraging interdisciplinary research and leading outreach and public service efforts on behalf of the university. We are also a seed bed for new areas of study that no one on campus is currently tackling."

With two new undergraduate degree programs, the BS in Environmental Sciences and the BA in

Environmental Studies, plus degrees in Environmental Health Science, Geology (BA and BS), Geography, Public Policy, and International and Area Studies, Carolina undergrads interested in pursuing environmental careers have more options than ever. At the same time, the strength of our graduate programs continues to grow.

"We're proud that, in several environmental areas, UNC has expertise across the areas of study needed to analyze and solve complex problems," said Crawford-Brown. "Through the CEP, we bring together the full suite of disciplines and methods needed to tackle important environmental issues. We've got people who do the basic science; who develop and assess policies; who address the economic and social incentives for making changes in society; who deal with the health effects and ecological effects associated with pollutants...all the way to the people who work with businesses and industry to get them to make the changes needed. Carolina is pretty unique in the sense that we're able to offer the entire package to tackle these challenges." ■

EDUCATION, RESEARCH AND OUTREACH

Inaugural Lambeth Professorship awarded to Public Policy's Andrews

“Tom Lambeth is one of my heroes.... His legacy represents much to live up to.”

- Pete Andrews



Tom Lambeth

UNC School of Social Work

Richard “Pete” Andrews has been appointed as the first Thomas Willis Lambeth Distinguished Professor of Public Policy. The Lambeth Chair was established through a contribution from the Z. Smith Reynolds Foundation to honor Tom Lambeth, executive director of the foundation, upon his retirement in 2001. The foundation’s funding was matched by the North Carolina General Assembly’s Distinguished Professors Endowment Trust Fund.

Lambeth, a Carolina alumnus, served on the staffs of North Carolina Governor Terry Sanford and Congressman Richardson Preyer and with the Smith Richardson Foundation of Greensboro. In 1978, he became executive director of the Z. Smith Reynolds Foundation in Winston-Salem, a position he held for more than two decades.

Andrews, a noted environmental policy expert and former chair of the university faculty, joined the UNC faculty in 1981 to direct the UNC Institute for Environmental Studies, the predecessor to the Carolina Environmental Program. A Carolina graduate himself (MRP ‘70, PhD ‘72), he has written extensively on the history of American environmental policy. He was also instrumental in establishing the CEP itself. His home appointment is in the Department of Public Policy, with joint appointments in the CEP and the Department of Environmental Sciences and Engineering.

During his five-year appointment to the Lambeth Chair, Andrews will receive salary support and an annual research budget. He plans to focus on environmental policy issues in North

Carolina and beyond, and on other issues consistent with Lambeth’s legacy.

Devoted to his alma mater, Lambeth served over the years as chair of the UNC-Chapel Hill Board of Trustees, president of the General Alumni Association, and board member for numerous university and school committees. He was one of the founding members of the board of the Carolina Environmental Program.

Carolina and beyond, and on other issues consistent with Lambeth’s legacy.

“Tom Lambeth is one of my heroes,” Andrews said. “He is a dedicated and extraordinarily effective champion of improving public education, reducing poverty, improving race relations, environmental sustainability and good governance and public policy, and a paragon of loyalty to this state and this university.

“For any faculty member, being nominated to an endowed chair is one of the highest honors one can receive, and being selected as the first occupant of this chair in his name is a truly exceptional honor. His legacy represents much to live up to, and I hope I may use this opportunity to contribute further to it.”

Lambeth was surprised when trustees of the Z. Smith Reynolds Foundation told him they’d decided to honor him by establishing a distinguished chair at Carolina. Foundation trustees and UNC administrators worked closely together to design the position and select its first recipient.

“It was a great surprise, and I was very flattered,” said Lambeth. “I was not involved in choosing the recipient, so I was delighted when I learned that it was somebody I knew and had great respect for.”

He is confident that his namesake chair will help Carolina recognize, attract and retain outstanding faculty. “We hope that, over time, this chair will encourage faculty involvement in public policy in – and public service to – the state, and will help faculty members encourage students in these areas as well.” ■

UNC Top Quality in Air Quality – continued from page one

Jeffries focuses on the entire process whereby nitrous oxide and volatile organic carbon compounds react and transform themselves into ozone. Since 1971, he and his team have worked in the UNC air chambers to create different combinations of air pollutants and watch the chemical evolution that occurs. From these data, his team builds mathematical models to try to reproduce what they observe in the chambers.

When Jeffries and Kamens achieve an accurate chemistry model, they work with another group at UNC – a part of the CEP, the Environmental Modeling for Policy Development’s air quality modeling group, which is also known internationally for its work – who combine it with models related to wind, meteorology and other factors to create an all-encompassing model that cities and regions can use to assess their current situation and the potential impact of different scenarios for reducing air pollution.

UNC experts work closely with state and national policy makers to help them make

informed policy decisions. Carolina researchers benefit from the close proximity of the U.S. Environmental Protection Agency laboratory in Research Triangle Park, which, together with neighboring universities, is home to an internationally recognized group of researchers and modelers at the forefront of air quality modeling. The EPA funds much of the air quality research taking place at UNC.

Air quality is a particularly high profile issue these days as states work to meet a new set of air quality standards that have gone into effect under the Clean Air Act amendments. UNC experts like Jeffries have been working closely with the N.C. Department of Environment and Natural Resources to apply air quality models – many of which were developed at UNC – that the state uses to prove to the EPA that we have a viable plan to move into compliance in the coming years. Because of our wealth of modeling and scientific expertise, the rest of the nation is looking to North Carolina as a test case for these science and policy methods. Jeffries was also

asked by Texas and California to help them address their air quality issues.

Jeffries and Kamens are also collaborating on a project with the UNC Medical School and the U.S. EPA to expose human lung cells and mice to different types of air pollution, allowing them to determine the effects of different compounds. They have created new chambers that are tailor-made for these studies, allowing toxicologists and medical researchers to expose cells and mice to pollutants under highly controlled conditions where the sources and atmospheric chemistry are known.

“It’s part of a fully integrated program we’re developing at UNC called the ‘One Atmosphere Approach,’ that ties together the chemistry, modeling, health impact and risk assessment of the entire environment at once,” Jeffries said. “Our goal is to get the models to be able to answer the questions that policy makers really need to have answered in order to make effective decisions.” ■

PHILANTHROPY

CEP Honor Roll 2003/2004

The CEP thanks these donors for their generous support.

Chancellor's Club Members

(gifts of \$2,000 and more)

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Betsy Steele and Geo. Watts Carr III
Ann Colley
Lori and Peter Gevalt
Debbie Hill
Mary Lambertson Hill
Olivia Holding
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Other Individuals

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(These individuals were honored or memorialized by gifts to the CEP from others.)

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Henry Lancaster
The Honorable Beverly Perdue
The Honorable Margaret Pollard

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Mary and Watts Hill, Jr.
Distinguished Professorship II
Mary and Watts Hill, Jr.
Student Internship Fund
Mary and Watts Hill, Jr.
Unrestricted Fund

* Deceased

EDUCATION

Hail to the Class of 2004! THE CEP 2004 GRADUATION

CEP Director Doug Crawford-Brown (left) with program graduate Anna Hardee and a canine commencement guest.



Bill Gage



Bill Gage

Since UNC's 2004 Commencement fell on Mother's Day, Program Director Doug Crawford-Brown invited mothers of CEP graduates to share their children's graduation honors. Here, CEP graduate Natenna Dobson (center) and her mom, Grace P. Moore, of Warsaw, N.C. (right), receive Dobson's program diploma from Crawford-Brown.



Bill Gage

CEP Director for Student Affairs Greg Gangi (center), who advises all UNC Environmental Science, Environmental Studies and Environmental Health Science undergraduates, congratulates Class of 2004 graduates Preethi Sama (left) and Jennifer Parker.