

Institute's new director emphasizes interdisciplinary approach to environmental issues

DISTINGUISHED GEOGRAPHY PROFESSOR
LAWRENCE BAND APPOINTED TO LEAD
UNC INSTITUTE FOR THE ENVIRONMENT



On January 1, 2009, Dr. Lawrence Band will take over as director of the Institute for the Environment (IE) at the University of North Carolina at Chapel Hill. He succeeds Doug Crawford-Brown, who led the IE and the Carolina Environmental Program from 2002 until earlier this year.

Band is a distinguished researcher, teacher, public servant and university administrator. A watershed hydrologist who also has interests in ecology and geomorphology, remote sensing and geographic information systems (GIS), he came to UNC in 1998 as the Voit Gilmore Distinguished Professor of Geography in the College of Arts and Sciences. He chaired the Department of Geography from 2002 to 2007.

"I am looking forward to the opportunity to pursue – with colleagues both inside and outside the university – important interdisciplinary research and engagement on key environmental issues," Band said. "UNC is very well set up to pursue disciplinary research in a number of different environmental areas. Moving forward, our mission is to form interdisciplinary teams to take problem-oriented approaches to key environmental issues. We've got great people in place in departments and schools throughout the Carolina campus. With a very creative and engaged Board of Visitors, our goal is to integrate

faculty and students with public and private groups to identify, prioritize and solve key environmental issues."

A New York native, Band earned his bachelor's degree at the State University of New York at Buffalo, and master's and doctoral degrees at the University of California, Los Angeles. Before coming to Carolina, he served on the faculty of San Francisco State University, Hunter College and the University of Toronto.

Band, whose research focuses on the structure of watersheds and the availability and quality of freshwater – critical areas for North Carolina and the nation in view of recent droughts and storms – is no stranger to interdisciplinary research. He has worked for years on interdisciplinary initiatives with scientific and social science community organizations at the national and international levels. He and his research group are best known for their work in the longitudinal National Science Foundation-funded Long Term Ecological Research (LTER) network, which integrates ecological, physical and social sciences into "place-based" environmental research. Through

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DIRECTOR'S STATEMENT FROM LARRY BAND

DIRECTOR'S GREETINGS:

It is a pleasure to welcome you to the UNC Institute for the Environment (IE). The Institute has the exciting and challenging responsibility to integrate faculty, students and staff across the university in research, education and engagement on pressing environmental issues. Our focus is broad, from communities in North Carolina to throughout the globe. We define our environment as including the full range of remote wilderness areas through dense urban regions. The health and sustainability of all are equally dependent on environmental processes and what we do as individuals and institutions. Therefore, the stakes are high; as we are part of

our environment, our environment depends on how we live our lives. The way we build and manage our homes and communities, use (and reuse) water, travel, and produce and use energy are all key ingredients in environmental sustainability.

While universities have effectively studied the different components of the environment for decades, the whole is more than the sum of the parts. Individual departments and schools provide the depth and detail necessary within their disciplines – we at the Institute focus on integration and interfacing all the vital components. We do this by explicitly including the human dimension with the biological, chemical and geophysical underpinnings of the environment. My predecessors as first

the Carolina Environmental Program and now the Institute director, Bill Glaze and Doug-Crawford Brown, provided very effective resources and programs designed to facilitate this integration.

A major responsibility of the IE is to directly partner and extend our activities at Carolina in the study of these vital issues with individuals and institutions in public and private spheres from our local communities in North Carolina, throughout the nation and the world. This necessitates that we develop interdisciplinary, open discussion and approaches, recognize our own role as community members both on and off campus, and

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BERKE NAMED INTERIM DIRECTOR FOR THE INSTITUTE; WILL BECOME DEPUTY DIRECTOR IN 2009

'MEGA ENVIRONMENTAL PROBLEMS REQUIRE MEGA ENVIRONMENTAL SOLUTIONS'



Philip Berke

In July 1, 2008, Dr. Philip Berke, UNC professor of city and regional planning and director of the IE's Center for Sustainable Community Design, took over as interim director of the Institute. He replaced Dr. Robert K. Peet, who served as interim director through June. Berke will lead the Institute until January 1, 2009, when Dr. Larry Band will become the permanent director. Berke will continue as deputy director, focusing in particular on the Institute's growing research enterprise.

Even as he takes on this new challenge, Berke will remain director of the fast-growing Center for Sustainable Community Design (see article on page 3). His own research addresses domestic and international issues in the areas of environmental impacts of urbanization, land use planning, natural hazard mitigation, environmental justice and sustainable development. His work has been supported by the United Nations Division of Humanitarian Affairs, U.S. National Science Foundation (NSF), Federal Emergency Management Agency (FEMA), North Carolina Water Resources

Research Institute (WRRRI), and other national and international agencies.

Berke believes one of the IE's key roles "is to be a catalyst in the university for synthetic, integrative research." This fall, he is focusing in particular on developing a new initiative to bring faculty and students from across disciplines together around today's critical environmental issues. He is also working on major interdisciplinary research and outreach initiatives associated with watershed protection and coastal vulnerability.

"The idea," Berke explained, "is to build partnerships around problems, bringing together ecologists, environmental engineers and scientists, city planners, public health specialists, social scientists and other experts to synthesize knowledge. Already, there are many faculty members and students at Carolina who are looking at pressing environmental problems we face in this country and around the world: water shortages, pollution,

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Band to Lead IE, continued from page 1

ATER, he has been focusing on the interplay between individuals, communities and the environment in urban ecosystems in Baltimore, and in the Little Tennessee River Basin in western North Carolina. He has also studied drought vulnerability in the Catawba River Basin, a subject of immense importance to North Carolina and its citizens. He has conducted research in the United States, Canada, Australia and China.

Band's recent public service activities have included work with the Chesapeake Bay Foundation to review their Chesapeake Bay Watershed Model — work with great relevance to North Carolina's Albemarle-Pamlico Region — as well as National Research Council investigations on the nation's capabilities and directions in hydrologic sensor technology, and in storm water monitoring and permitting. He teaches geography courses to Carolina undergraduates and graduate students, and oversees the work of seven graduate students.

"Throughout the country and the world, all the major environmental schools and institutes have been going through a very similar transition, moving from separate, multidisciplinary approaches to an integrated, interdisciplinary culture," Band explained. "At Carolina, we're in a great position to take the lead on this."

Band, who had planned to take a one-year sabbatical this year to work in Australia and other places on drought management and urban water quality, will instead cut his sabbatical short, returning to UNC in January to become the IE's director and help move forward with an ambitious research, education and engagement agenda. Dr. Phil Berke will serve as interim director until January, and as deputy director thereafter.

"Professor Band's deep knowledge of the mission and goals of the Institute and his impressive record of scholarship and administrative leadership have prepared him well to direct this critically important campus-wide center," said Dr. Bernadette Gray-Little, executive vice chancellor and provost of the university. "I look forward to the contributions that Professor Band and the Institute will make to increasing our understanding of the pressing environmental problems we face, and developing solutions to them." 🌱

Director's Message, continued from page 1

clearly communicate our findings as part of committed engagement. The Institute is deeply and formally committed to public service and engagement, connecting faculty, students and staff with our communities. Our research centers, field sites and undergraduate programs provide interdisciplinary forums for faculty, students and community partners. Together, we will identify, understand and work towards equitable solutions to our most pressing environmental issues.

We have great advantages at Carolina in the outstanding environmental faculty from across campus, carrying out research and teaching in basic science, social science, medicine, public health, law and other areas vital to sustaining and improving our environment. Equally impressive are our students, who arrive with the commitment, motivation and talent to learn and integrate across these fields, to identify emerging environmental issues, and to work creatively toward their solution. It is our responsibility to provide Carolina students with the tools, experience and opportunities to take the study and understanding of the environment to the next level. Our field sites in North Carolina and internationally, and our undergraduate research and internship programs, provide the out-of-classroom experience that students consistently cite as the most enjoyable and productive part of their Carolina experience.

The environment is more than the sum of its parts. It is more than what is studied by any one department, and the identification, understanding and solution of our major environmental issues requires the interfacing of academic disciplines, public and private partners, and an informed and committed community. We invite you to join us in developing and utilizing new environmental knowledge and creative solutions. 🌱

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PEET STEPPED UP TO LEAD INSTITUTE THROUGH A TIME OF TRANSITION

The UNC Institute for the Environment owes a huge debt of gratitude to Dr. Robert K. Peet, who stepped forward to guide the Institute as acting, then interim, director from January through June 2008 after Doug Crawford-Brown went on leave, and then left Carolina.

Peet, who served as the chair of the Curriculum in Ecology for five years and as a professor of biology at UNC for more than 30 years, said his favorite aspect of leading the Institute “was meeting all of the associated people, from the administrative personnel to the Board of Visitors, discovering their commitment to the study of the environment, and learning how they think about the environment in their day-to-day lives.”



ROBERT PEET

“What I found most challenging,” he noted, “was streamlining the organization to prepare it for its new mission. Like most relatively new and opportunistically assembled organizations, the administrative structure was not yet optimized for its mission, which had been dramatically altered less than a year before [when the Carolina Environmental Program became the Institute for the Environment]. I hope I left the organization well prepared for its future role in the university.”

Peet did just that, said Dr. Bernadette Gray-Little, executive vice chancellor and provost of the university. “I am enormously grateful to Professor Peet for his willing service to the university in the role of acting, then interim, director of the Institute. His distinguished record of scholarship in ecology, knowledge of the Institute, and administrative experience and expertise enabled him to provide strong and effective leadership of the Institute during a critical time in its development.”

“Bob did a wonderful job at stepping in in very short order,” said Dr. Larry Band, who will become director in January 2009. “He has been the builder of the bridge, from all the work Doug [Crawford-Brown] did, to the future. He quickly got up to speed, and not only kept things together, but actually moved us forward. That’s the history of the Carolina Environmental Program and now the Institute: people going way beyond, because they care and they understand the need for partnerships across disciplines. Bob exemplifies that spirit.”

Since July, Peet has been on a well-deserved sabbatical at the National Evolutionary Synthesis Center in Durham, North Carolina, where he is working on biodiversity informatics. One aspect of his work focuses on how to combine many datasets when one species goes by many names, or one name can refer to many species. Peet and his collaborators recently implemented a partial solution in their online atlas of the southeastern flora (www.herbarium.unc.edu/seflora). He will return to UNC next year and will continue to lead work in ecological research and biodiversity.

Looking to the future, Peet noted that “the Institute already has strong research programs related to humans, air, energy and water. These programs will continue to grow, but I hope to soon see a new bioscience-geoscience program with an emphasis on biodiversity and ecosystem function. However, the biggest change I anticipate is growth of our public service and engagement activities as a critical outcome of the UNC-Chapel Hill response to President Bowles’ UNC Tomorrow initiative.”

Big first year for Center for Sustainable Community Design

It's been active less than a year, but the Institute's Center for Sustainable Community Design (CSCD) has already secured over \$1 million in funding.

Led by Director (and current IE Interim Director) Phil Berke and Deputy Director David Salvesen, the CSCD engages in research and community development work that provides strategies to improve the environmental quality of regions, cities, neighborhoods, buildings, and utility and transportation systems. While maintaining ecological integrity in growing regions is the main theme of the CSCD's planning work, the center also focus on issues of social equity and economic development.

“The CSCD promotes ‘engaged research,’” Berke said, “so we are writing scholarly publications, but we are also engaged and working closely with community-based organizations.”

The CSCD recently received grants for two projects in Eastern North Carolina, a historically impoverished area facing mounting pressure from growth that could have major ecological impacts. A Department of Defense project seeks to manage growth in order to sustain the quality of land and life in the region for future generations. The CSCD hopes to develop a better understanding of the links between land use, development plans and policies, urban growth patterns, and the ensuing impacts by using complex modeling systems to map the area, and will collaborate with community leaders, planners and residents to develop a model for sustainable growth for the area. The second project, discussed in the spring 2008 newsletter, is a feasibility study funded by the Golden LEAF Foundation to assess whether building a “green” industrial park in Camden County makes sense. The study is being conducted by UNC teams overseen by IE, including CSCD, the Environmental Resource Program (ERP), the Kenan-Flagler Business School and the School of Government.



David Salvesen, deputy director of CSCD, presents the findings of the “Camden County ‘Green’ Industrial Park Feasibility Study” in Camden, NC on August 28, 2008.

The CSCD has also received a \$600,000 grant from the Department of Homeland Security, through the UNC Center for Natural Disasters, Coastal Infrastructure and Emergency Management, to assess the local hazard mitigation policies of 180 communities in six coastal states. The 2000 federal Disaster Mitigation Act (DMA) seeks to ensure that the country's fast-growing coastal communities become more resilient to natural disasters by building greater capacity to mitigate future losses and rebound from their effects. This grant allows the CSCD to assess the progress local governments have made under the DMA, and whether the actions they have taken so far will be sufficient to mitigate the impacts of future disasters. The research will help local governments along the coast identify and adopt the best hazard mitigation policies and plans.

Finally, in collaboration with the Environmental Law Institute in Washington, DC, the CSCD will identify opportunities for wildlife conservation in coastal and floodplain areas where people and property are at high risk from flooding and other storm damage, particularly due to climate change. Findings from the project, which is funded by the National Council for Science and the Environment, will be of interest to federal, state and local managers and policymakers in coastal communities.

Berke and Salvesen are also busy with other projects that were funded before the CSCD came into existence. To tackle such a diverse range of projects at once, both agree that the key is to involve capable, motivated students and faculty with a range of academic backgrounds. Students benefit from one-on-one interaction with leading research scientists and from knowing that they can affect tangible change in the greater community. Faculty members enjoy the collaborative environment offered at CSCD, and the opportunity to work on projects that cross disciplinary boundaries.

“All of our projects are complex and require expertise in fields such as planning, geography, governance, business and ecology,” said Salvesen, who hopes that the CSCD continues to grow at a manageable pace as they build capacity to take on new projects.

Sustainability studies become mainstream at UNC

The debut of a Sustainability Minor and a Sustainable Triangle Field Site this fall semester has brought exciting new options for Carolina undergraduates wanting to “green” their education.

The Sustainability Minor, offered through the College of Arts and Sciences, stipulates the completion of one core course and a Capstone project. By requiring, in addition, elective classes from programs across campus, including Environmental Studies, City and Regional Planning, Public Policy and Geography, the Minor goes beyond a purely environmental focus to consider economic and social equity dimensions as well.

Students can choose between two core courses – or take both. *Principles of Sustainability* is taught this semester by Dr. Elizabeth Shay, and *Systems Analysis for Sustainability* will be taught in the spring by Dr. David McNelis. Though many associate the term “sustainability” solely with environmentalism, sustainable studies also take a comprehensive view of economic and social problems, and the interactions of all three themes.

The Sustainable Triangle Field Site, based on the Chapel Hill campus, marries academics with real-world exploration of sustainable practice at work. The completion of one core course is required, but experiential learning opportunities such as sustainability-themed internships, field experiences, Capstone projects, and seminars are the staples of the field site experience.

Shay, who directs the Sustainable Triangle Field Site, is thrilled with the interest students have shown thus far in sustainability studies. *Principles of Sustainability*, offered for the first time this semester, filled to its capacity of 30 students in the first two weeks of registration,

with several students on a waiting list. Shay designed the course herself. “I don’t know anywhere else in the country where someone is teaching an undergraduate survey course on sustainability this way,” she said.

Sustainability studies have been introduced into Carolina’s curriculum through the hard work and diligence of students, faculty and staff. The election platform of 2004–2005 student body president Matthew Calabria included a plank on sustainability in Carolina operations and academics; Calabria and his administration got the ball rolling by working with then-Executive Vice Chancellor and Provost Robert Shelton, other UNC administrators, and faculty and staff in the Carolina Environmental Program (now the IE). Student leaders continued to push for the creation of the Minor after Calabria’s graduation. Jessilyn Kemp, student activist and coordinator of 2008’s *Focus the Nation* climate change event, was the first to graduate with the Minor this past spring. Although the Minor wasn’t officially offered at the time, Kemp had taken so many classes in the subject and been so integral to its creation that she became the first at UNC to graduate with the designation.

“There was a tremendous desire among students for a sustainability program,” Calabria recalled recently. “For years, students interested in this area had to rely on their own initiative. Our work was both timely and important. My ultimate hope is that UNC will be at the forefront of training young leaders to tackle the environmental challenges facing the United States and other countries.”

Learn more about the Sustainability Minor and the Sustainable Triangle Field Site on the IE website, www.ie.unc.edu. ■

TV CAMPAIGN FOCUSES ON LINK BETWEEN AIR POLLUTION AND ASTHMA

The Institute’s Environmental Resource Program (ERP) is working with local ABC-TV affiliate WTVD to increase public awareness about health issues related to the environment. This year’s effort, funded by the UNC Center for Environmental Health and Susceptibility, focuses on educating the public about how poor air quality can exacerbate asthma.

This summer, WTVD aired two public service announcements that featured Dr. David Peden, director of the UNC Center for Environmental Medicine, Asthma and Lung Biology (CEMALB) and Dr. Karin Yeatts, a UNC epidemiologist, discussing the effects of increased ozone concentration and the importance of air pollution reduction.

Peden and Yeatts also appeared in segments on WTVD’s Sunday morning show, *Heart of Carolina Perspectives*. In June, Peden discussed research showing that poor air quality can affect people with asthma. Accompanying him was Mallory Erickson, a Raleigh high school student who, by managing her asthma, is still able to run track and live a normal life. In August, Yeatts, whose research explores how climate change can affect asthma, appeared on the show to discuss how citizens can take steps to reduce air pollution and improve outdoor air quality, along with Dr. Laura Gerald, a pediatrician who specializes in treatment of asthma. Yeatts and Dr. Adel Hanna, director of the IE’s Center for Environmental Modeling for Policy Development, are using data from several North Carolina towns to develop a model that can be used nationwide to predict how air quality conditions resulting from climate change can impact asthmatics. ■



KATHLEEN GRAY

INSTITUTE RESPONDS TO UNC TOMORROW REPORT

In December 2007, a report by the UNC Tomorrow Commission offered suggestions on how the UNC system could best serve the state in the realms of education, research and public service. The report singled out, among other things, the importance of tackling environmental issues. “UNC should assume a leadership role in addressing the state’s energy and environmental challenges,” it stated. “The future of the North Carolina economy, the quality of our environment, and how we use energy are intricately and inseparably intertwined.” The Institute for the Environment was specifically mentioned in the proposed strategies on how to avoid future environmental degradation. [The report is available at http://www.nctomorrow.org/content.php/reports_documents/commission/Final_Report.pdf.]

In response to this report, faculty members within IE, in partnership with the UNC-Chapel Hill administration and the Sustainability Office, have committed to work closely with North Carolina policymakers and practitioners to promote sustainable community development, especially to ensure the availability of clean water and sustainable energy sources.

“Carolina faculty members lead the state and the nation in research on sustainable community development and water quality and quantity, and they are poised to meet the needs of policymakers with meaningful research

translated into usable forms,” said Kathleen Gray, director of the IE’s outreach and public service program, the Environmental Resource Program (ERP), and IE associate director for outreach and public service, who is helping lead the Institute’s response to the UNC Tomorrow Commission report. “The Institute is also positioned to increase community awareness of environmental and sustainability issues through the ERP.”

Cindy Pollock Shea, director of the UNC Sustainability Office, is also helping lead response efforts to “embrace environmental sustainability as a core value.” The Sustainability Office will coordinate an initiative to make transparent the university’s investment in high performance buildings and infrastructure. [The UNC response to the UNC Tomorrow report is also available on the web: http://www.nctomorrow.org/content.php/reports_documents/response_phase/CarolinaUNCTResponse.pdf.]

The IE proposes to work with other campuses in the UNC system to develop a strategic plan to address water and energy challenges facing North Carolina. This plan would identify research priorities and potential collaborations, decision tools, and opportunities for public education. The IE will contact system schools soon to seek their involvement in joint planning. Ultimately, implementation of the plan would be contingent upon funding the different elements. In the spring 2009 newsletter, we will share the latest developments in this ongoing effort. ■

Teaching teens about climate change

CEMPD ASSOCIATE BRINGS
CLIMATE CHANGE
AWARENESS TO THE STUDENTS
OF GOVERNOR'S SCHOOL EAST



Zac Adelman with CEMPD presents to Governor's School East students this past July.

Zac Adelman, a research associate with the IE's Center for Environmental Modeling for Policy Development, recently spent an afternoon sparking the interest of North Carolina's future leaders on environmental issues. Adelman was invited to speak to social science students at North Carolina Governor's School East, a six-week residential summer program for 400 rising high-school seniors, after the students expressed interest in learning about issues related to climate change and alternative energy.

"I prepared two 90-minute presentations, but I didn't even come close to getting through all the material because the students were so engaged, speaking up to give examples and ask questions," Adelman said.

In addition to discussing climate change on a grand scale, Adelman included ways it would impact North Carolina specifically, as well as information on what policymakers and nonprofits in North Carolina are doing to address the problem. He also informed students on how they as individuals could make a positive environmental impact.

"Zac did an awesome job," said teacher Caroline Browne. "He had a rapt audience, and kids even stayed after class to ask him questions. He really addressed the whole realm of hot topics the students were interested in learning about." ■

Berke, continued from page 2

natural disasters, the dramatic decline in biodiversity, and the associated impacts on public health. These mega problems require mega solutions that can only come from partnerships across the university, and I'm excited about forming those partnerships."

This interdisciplinary approach is also essential to the Institute's education and outreach missions, Berke noted. "In educating our students, we want to build the next generation of boundary-spanning, integrative thinkers, with a balance between the depth of knowledge and the ability to take an integrated approach to problem-solving. And, through our Environmental Resource Program and other outreach efforts, we are working with schools and communities to help them with the resources they need to understand and address important environmental concerns."

Band said that he and Berke bring complementary skills and interests to their new roles, providing a perfect example of the type of interdisciplinary partnership they seek to build. "I work more from the sciences background; Phil – who is one of the leaders in environmental planning – works more from the planning, social science and community-building perspective. We both recognize that study of the environment requires integration across the sciences and social sciences, as well as the humanities, and we look forward to building these partnerships together." ■

HAIL TO CAROLINA'S 2008 Environmental GRADUATES



Graduates Emma Susick, David Steber and Laura Askins



Graduate Ryan Haig receives his diploma from then-Interim IE Director Dr. Bob Peet and Greg Gangi, IE Associate Director for Education.



Ariadne Prior-Grosch, Alec Palermo, Lilly Clark, Lauren Miller and Kincaid Lowe at the IE's commencement party in the Fed Ex Global Education building.

Lisa Kirkley and her family



Institute receives two new grants to fund research

The Institute for the Environment is grateful for two generous grants received recently to support two very different, yet equally important, areas of research: nuclear energy and tree seedling survival.

A \$255,000 grant given by George F. Russell, Jr. supports the research of Dr. Jun Li, a nuclear engineer formerly at North Carolina State University whose work focuses on the partitioning of spent nuclear fuel, transmutation of specific nuclides, and non-proliferation, explained Dr. David McNelis, director of the IE's Center for Sustainable Energy, Environment and Economic Development (C-SEED). Li joined C-SEED in August. "We are most grateful to Mr. Russell for making it possible for Jun to continue his research here at UNC," McNelis said.

An \$84,000 research grant given by Dominion Power was awarded to Dr. Bob Peet (see page 3) for his project, "Establishment and Survival of Floodplain Tree Seedlings: Roanoke River." The project seeks to monitor

the survival of tree seedlings in the downstream floodplain of the Roanoke River near Dominion's Roanoke Rapids (NC) Power Station.

Jackie White, a graduate student in ecology, is the project manager for this grant, and is working with Peet and other graduate students on the project. "The bottomland forests associated with the lower Roanoke River have been identified by The Nature Conservancy as the largest remaining extent of this ecosystem in the Southeast," she said. "These forests not only represent a conservation treasure for North Carolina; they also provide many other ecosystem services associated with wetlands. The Roanoke bottomlands are also a popular area for recreation, particularly hunting and fishing, and ecotourism brings much needed revenue to this region of our state. Incorporating science into environmental management and restoration is critical, and I think this project can be a model for the management of other regulated coastal plain rivers." 🌿

Roanoke Rapids project technicians Rick Ranalli, Ashley Tuggle and Sabrie Breland monitor seedlings and record trees.



Board of Visitors adds one member, renews six

Barry Rabe has joined the UNC Institute for the Environment's Board of Visitors. Rabe is a professor of public policy in the Ford School at the University of Michigan and holds appointments in the School of Natural Resources and Environment and the Program in the Environment. He is a non-resident senior fellow in the Governance Studies Program at the Brookings Institution. Much of his recent research examines state and regional development of policies to reduce greenhouse gases, which has been conducted in collaboration with the Brookings Institution and the Pew Center on Global Climate Change. In 2006, Rabe became the first social scientist to receive a Climate Protection Award from the U.S. Environmental Protection Agency in recognition of his contribution to both scholarship and policy making.



BARRY RABE

During the 2008–09 year, Rabe will be a visiting professor at the Miller Center of Public Affairs at the University of Virginia, where he will help organize a National Conference on Climate Governance and a series of subsequent publications. Rabe earned his BA from Carthage College, and MA and PhD degrees in political science from the University of Chicago.

Six members have been reelected to the Board of Visitors: William Clarke, Dennis Crumpler, Charles T. "Chip" Hagan III, Mike Leonard, Reid Murchison and Jim Parrott. We appreciate the willingness of each of these members to volunteer their time to serve the Institute. 🌿

PEOPLE NEWS AT THE INSTITUTE

NEIL DAVIS recently joined IE's CEMPD as a research associate and meteorological modeler. His background includes research on regional climate and statistical modeling in East Africa as part of his MS in atmospheric science from North Carolina State University. He also has a BS in meteorology from Valparaiso University.

ALEXIS ZUBROW has joined IE's CEMPD as a research associate. He comes from the Center for Integrating Statistical and Environmental Science at the University of Chicago, where he worked on air quality modeling, data assimilation, and the impact of low levels of ozone on asthma. He earned his master's degree from the University of Wisconsin.

UNC INSTITUTE FOR THE ENVIRONMENT

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G. Watts Hill, Jr. *
Fran Lynn *
The Honorable Danny McComas

* Deceased

Endowments Founded During 2007/2008

Sustainable Community Design Fund

**UPCOMING
INSTITUTE EVENTS**

Safe and Sustainable Drinking Water in Developing and Developed Countries: Where Science Meets Policy

Wednesday, November 5 – Thursday, November 6, 2008

William and Ida Friday Center for Continuing Education

Dr. Daniel Okun Memorial Symposium

Friday, November 7, 2008

Rosenau Building, Room 133

Winter 2008 Commencement and UNC Institute for the Environment Holiday Party

Sunday, December 14, 2008, 4:00 p.m.

The Farm

Securing our Energy Future: Next Generation Photovoltaics and Solar Fuels

Thursday, January 15 – Saturday, January 17, 2009

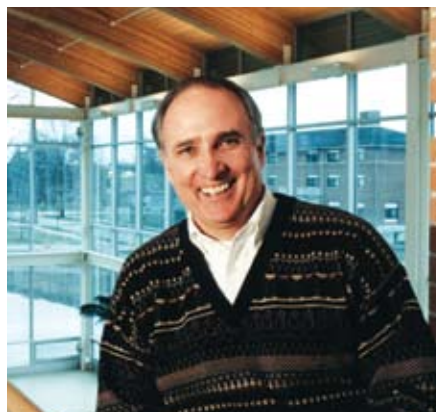
The Carolina Club and Stone Center

Spring 2009 Commencement

Sunday, May 10, 2009

FedEx Global Education Building

RECENT INSTITUTE EVENTS



Earth Day lecture given by environmental author

David Orr, environmental author, scholar, entrepreneur and Paul Sears Distinguished Professor of Environmental Studies and Politics at Oberlin College, gave the IE's 2008 Earth Day lecture on April 22. His talk, entitled, "Some Like it Hot, but Lots More Don't: The Changing Climate of U.S. Politics," discussed environmental issues (particularly climate change) in the political sphere. Before his evening lecture, which was open to the public, Orr spent the day meeting with campus groups.



Tour for new Carolina faculty visits dam removal project

On May 13, participants on the 11th Tar Heel Bus Tour spent their lunch hour touring the Carbonton Dam Site, the location of North Carolina's largest-ever dam removal project. Martin Doyle, associate professor of geography and director of the IE's Center for Landscape Change and Health, spoke to the group, which was comprised of 36 new members of the UNC-Chapel Hill faculty. In 2005, Doyle helped Restoration Systems, LLC remove the dam, which had been out of use for years but was the source of considerable environmental damage to the area. After the dam's removal, two small species of fish that were thought to be wiped out in the area repopulated.

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