



Renewable energy technology - including wind power - was addressed by two of the first five '06-'07 Future of Energy speakers

Future of Energy Lectures Bring Diverse Perspectives to Campus

The second year of the Center for the Environment's "Future of Energy" lecture series has thus far showcased five compelling speakers offering varied perspectives on energy research, policy, and provision in the twenty-first century. The first five lectures in the 2006-07 series, organized by the Center with generous support from Bank of America, focused respectively on innovations in clean energy technology, the challenges of constructing an effective energy policy, the current and future role of oil in meeting the global demand for energy, the role of renewable energy in the global energy future, and advanced technologies for increased oil production. With each lecture - including one more this academic year - the Center brings together faculty and students in a continuing discussion on the challenges of developing secure, safe, clean, and affordable sources of energy for present and future generations.

On November 16, 2006, Senior Vice President and Director of GE Global Research **Mark Little** gave the opening address in the 2006-2007 lecture series. Little's visit to Harvard included meetings with faculty members to discuss the future of energy research at Harvard and GE, as well as an engaging public lecture highlighting technical advances in wind, (*continued on p. 2*)

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Environmental Fellow Joins Harvard Faculty

Last fall the Center for the Environment welcomed **Peter Huybers** in its inaugural group of Environmental Fellows. His appointment was quickly followed by another first—the first Environmental Fellow to make the leap to Harvard faculty member. A key part of the original vision of the Fellows Program is to help the University recruit the brightest young scholars to the faculty, but few expected success in that aspect of the program so soon.

Huybers came to Harvard after receiving his Bachelor of Science in physics at West Point and his doctorate from MIT—where he won the prestigious Carl-Gustaf Rossby Prize for the best thesis presented in 2004 in MIT's Program in Atmospheres, Oceans, and Climate Change. He began work as an Environmental Fellow this past fall, hosted by Professor Eli Tziperman, a faculty member in the Department of Earth and Planetary Sciences and the School for Engineering and Applied Sciences. Within six months, Huybers was offered a faculty position in the Department of Earth and Planetary Sciences. Center Director Dan Schrag applauded the decision, saying, "This is a pioneering contribution to the understanding of ice ages. Peter's ideas about the change in the Earth's orbit around the sun reframe a climate issue that has puzzled scientists for more than 100 years." The faculty and staff of the Center for the Environment congratulate Peter on his appointment to the Earth and Planetary Sciences faculty, and look forward to working with him in his new role.

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coal gasification, and energy efficiency at GE Global Research.

John Holdren, Teresa and John Heinz Professor of Environmental Policy at the John F. Kennedy School of Government and director of The Woods Hole Research Center, spoke on December 14 about the challenges of balancing the multiple, often competing components of an effective energy strategy. His lecture synthesized a wealth of scientific and economic data to outline the policy options needed to confront the economic, environmental, and security aspects of the “energy-environment challenge.” Holdren concluded his remarks by pointing out some of the ways the University is already addressing research and policy questions surrounding the future of energy and identified other opportunities for the Harvard community to become involved in this important issue.

The lectures continued in the new calendar year with more speakers illustrating the range of perspectives represented in the “Future of Energy” series. On January 31, 2007 **Abdallah S. Jum’ah**, president and chief executive officer of Saudi Aramco, offered his thoughts on the role of oil in meeting the growing demands for cheap and reliable energy. Pointing to the undeveloped reserves in his home country, Mr. Jum’ah assured his audience of the continued availability of oil and argued for the importance of fossil fuels, particularly in the near future, until renewable energy sources could be developed to meet global demand.

The topic of renewable energy brought the next speaker, **Dan E. Arvizu**, director of the National Renewable Energy Laboratory, to Harvard on February 5 to address the current state of renewable energy technology in the United States. Arvizu outlined the promise and the underlying challenges of renewable energy while stressing the importance of transitioning in the long term away from fossil fuels.

On March 22, **Andrew Gould**, Chairman and Chief Executive Officer of Schlumberger, Ltd. - one of the world’s leading energy production companies - addressed the uncertainties inherent in predicting oil supply and demand. Gould also showcased recent technical breakthroughs that have allowed for increased oil exploration and production.

In addition to their public addresses, the “Future of Energy” speakers each met with Harvard faculty and led discussions at the Belfer Center for Science and International Affairs at the Kennedy School of Government.

“The momentum from last year’s Future of Energy lectures has clearly carried over and grown for our current series. The high quality of the presentations and enthusiastic Harvard audiences are helping to build a community of students and faculty better prepared to provide critical analyses of the complex and multidisciplinary issues related to energy,” said Center Director Dan Schrag.

The 2006-07 series will conclude with **Vaclav Smil**, distinguished professor at University of Manitoba on April 12. The public lecture will begin at 5 PM in the Yenching Auditorium, 2 Divinity Ave., Cambridge.

Visit the Center’s website for recorded presentations of past “Future of Energy” lectures: www.environment.harvard.edu.

New Visiting Scholar Program Launched

The Center for the Environment is launching a visiting scholar program this spring to bring prominent scholars in any discipline related to environmental studies to the Harvard campus for short-term visits of up to two weeks. Center for the Environment Visiting Scholars will stimulate research interest in a variety of areas of environmental studies through meetings with faculty, seminar and classroom presentations, and lectures to the broader Harvard community.

From April 30 to May 4, **Scott Barrett**, Professor of Environmental Economics and International Political Economy at Johns Hopkins University, will visit Harvard through this new program. Barrett is also the director of the International Policy Program at the School of Advanced International Studies at Johns Hopkins. While at Harvard, Barrett will discuss key conclusions from his forthcoming book *Why Cooperate? The Incentive to Supply Global Public Goods* at a public talk on April 30 at 4 PM at the Center for Government and International Studies. In addition, he will meet with various student groups and faculty members to collaborate on issues of international environmental policy. During his busy one-week stay, Barrett will also give talks at the Harvard School of Public Health and at the Environmental Economics Program, located at the John F. Kennedy School of Government. He will be hosted by Robert Stavins, Albert Pratt Professor of Business and Government and director of the Environmental Economics Program.

This new program will allow leading scholars from other research institutions to visit Harvard to share their

research with the Harvard community. Harvard faculty members interested in learning more about the Visiting Scholar program or how to nominate a potential visiting scholar should contact Center Managing Director Jim Clem, clem@fas.harvard.edu.

Center Supports New Course on Environmental Crises

From investigating human rights violations in the Sudan to studying rebuilding efforts in Iraq, Indonesia, and New Orleans, Harvard School of Public Health Professor **Jennifer Leaning** has made it her mission to understand the ways in which health care professionals can effect change in disaster mitigation and policy. Her many roles at Harvard include: Professor of the Practice of International Health in the Department of Population and International Health, codirector of the Harvard Humanitarian Initiative, director of the Inter-University Initiative on Humanitarian Studies and Field Practice, senior advisor in International and Policy Studies at the Radcliffe Institute for Advanced Study, and associate professor of medicine at Harvard Medical School. Despite her extraordinarily busy schedule, she is also finding time this spring to teach an undergraduate course through the Environmental Science and Public Policy Program. Leaning designed her course, "Environmental Crises and Population Flight," to teach undergraduates about the environmental, humanitarian, and health issues surrounding forced migration due to natural disasters, climate change and conflict.

Leaning's course was made possible through the support of the Center as part of an ongoing effort to bring faculty members from Harvard's professional schools to the College to share their experience and expertise with undergraduates. Center Managing Director James Clem considers Leaning's course a major coup for the Center and a remarkable opportunity for those undergraduates attending. "Jennifer Leaning is a star at the School of Public Health and possesses a wealth of personal experience on the global stage to share with her students. We are delighted that she was able to offer this important course for our ESPP students," said Clem. The Center will continue to sponsor similar courses in the future to afford more faculty from the professional schools the opportunity to teach innovative undergraduate courses.

New Lecture Series: Ecology, Biodiversity, and Global Change

This spring the Center for the Environment is launching a new lecture series that will bring distinguished speakers to campus to speak on topics relating to a central aspect of environmental science: ecology - the study of how organisms interact with their environment. The "Ecology, Biodiversity, and Global Change" lecture series is organized by Center faculty associate Jonathan Losos, Monique and Philip Lehner Professor for the Study of Latin America and Curator in Herpetology. The inaugural speaker will be David Tilman, McKnight University Professor in the Department of Ecology, Evolution, and Behavior, and the director of the Cedar Creek Natural History Area at the University of Minnesota. Professor Tilman will discuss his recent research at a lecture on Monday, April 23 at 5 PM at the Fairchild Lecture Hall (Room 102). The series will continue in 2007-08 with a full roster of events to be announced later this year.

At the Center

New Staff Members: James Clem became managing director of the Harvard University Center for the Environment effective January 2, 2007. Clem received his Ph.D. in political science from the University of Michigan in 1995 and has spent the last nine years working in academic administration at Harvard. Rebecca Wells joined the Center as the external affairs and alumni relations associate at the end of October. Wells came to the Center from Harvard Law School, where she worked with the annual fund for one and a half years. Wells will be working with the director on various development projects for the Center, as well as managing the Center's website and new visiting scholar program.

Website: The Center for the Environment website has a new look. Check out www.environment.harvard.edu to see the new, streamlined site and access information on the Center, research of our Faculty Associates, funding opportunities for students and faculty, upcoming

The Harvard University Center for the Environment is an interfaculty initiative affiliated with the Faculty of Arts and Sciences and serving the entire University.

The Center encourages research and education about the environment and its many interactions with human society.

environmental events and more.

Funding: The Center is currently accepting applications for the Undergraduate Summer Research Fund, a program established in 2002 to support student research projects related to the environment. Preference is given to rising seniors seeking funds for senior honors thesis research. Award amounts range between \$500-\$2,500.

Starting this summer, the Center will also offer undergraduate student research assistantships to pay for up to ten weeks of an undergraduate research assistant's time at a competitive hourly wage. There is a wide variety of research assistant opportunities with Center faculty associates and posted online at www.environment.harvard.edu.

The Center awards faculty research grants to support preliminary explorations of environmental issues that show promise for further scholarship. The awards are open to all Harvard faculty members, regardless of any past affiliation with the Center. For more information on these seed grants and all funding opportunities, visit www.environment.harvard.edu.

Events Calendar/On the Web

The Center's web site includes a calendar of events of interest to environmental students, faculty, and the general public. Many of the events are sponsored by the Center.

Among the highlights of the next few months are:

- **April 9: Science & Democracy**, Yaron Ezrahi, Israel Democracy Institute, at Starr Auditorium, KSG, 5 PM
- **April 12: Future of Energy**, Vaclav Smil, University of Manitoba at Yenching Auditorium, 5 PM
- **April 25, 26 & 27, Space-Time Statistical Modeling**, Michael Stein, University of Chicago, at various locations, 5 PM
- **April 23, Ecology, Biodiversity, and Global Change**, David Tilman, University of Minnesota, at Fairchild 102, 5 PM
- **April 30, Visiting Scholar Lecture**, Scott Barrett, Johns Hopkins University, at CGIS, 4 PM

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