

Inside & ONLINE



New ID cards for undergraduates turn out to be smart enough to go to Harvard.
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The dawning of the age of 'personal genetics' is thrilling — and also fraught with a host of ethical issues.
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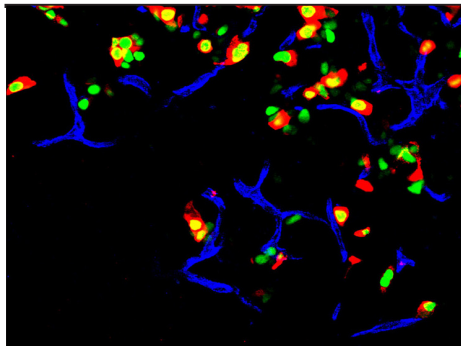
At the Sackler: 'Re-View,' a distillation of the University's diverse art collections two years in the planning.
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Multimedia



Watch the daredevil dives, hear the splashes, duck the cold spray as Harvard coaches and athletes teach kids at the Technique Swim Camp.
www.hno.harvard.edu/multimedia/

Image courtesy Joe Zho/Melton Lab



In this immunofluorescent image of an adult mouse pancreas, exocrine cells into which three transcription factors have been inserted are displayed in green. The red areas in the image are insulin. The blue streaks are blood vessels, which are remodeled by and lie close to the new, insulin-producing beta cells.

HSCI researchers see major breakthrough

By B.D. Colen
Harvard News Office

In a feat of biological prestidigitation likely to turn the field of regenerative medicine on its head, Harvard Stem Cell Institute (HSCI) co-director

Doug Melton's story, Page 14

biologists — directly turning a fully formed adult cell into another kind of fully formed, functioning adult cell.

The Melton team reports in the Aug. 27 online edition of the journal *Nature* that, using a technique

Doug Melton and postdoctoral fellow Qiao "Joe" Zhou report having achieved what has long been a dream and ultimate goal of developmental

they are calling "direct reprogramming," the team is able to turn mouse exocrine cells, which make up about 95 percent of the mouse pancreas, into precious and rare insulin-producing beta cells. These beta cells, which comprise about 1 percent of the pancreas, are the cells that die off in type 1 diabetes.

Melton, a Howard Hughes Medical Institute investigator, has discussed the work in general terms at a few scientific meetings over the course of the past few months, and his talks have generated expressions of surprise from those who have heard them, or even heard about them.

George Q. Daley, immediate past president of the International Society for Stem Cell Research and a

(See *Cells*, page 14)

Three hours at Nohana

Reaching out to the heart of the AIDS epidemic

By Alvin Powell
Harvard News Office

Staff photos Justin Ide/Harvard News Office



"I just want to see how bad things are in the clinic," Jennifer Furin said, grabbing a stethoscope from her bag and heading out the door of the small stone house perched on a Lesotho mountainside. "It's a 'doctor fear' that someone is bleeding out while I'm standing here eating chocolate."

Furin had arrived at the house just minutes earlier, long enough for a quick sip of juice and a few pieces of chocolate, a boost as her body adjusted to the clinic's 6,000-foot altitude. A six-seater Cessna had dropped her at the site's grass airfield scarcely 20 minutes earlier. It had touched down among soaring mountain peaks, green and brown and looking from the air as if they had been given a buzzcut by a giant razor.

Furin went down a set of steps to the clinic, passing lines of people — most of whom wore colorful hats as well as traditional blankets that provide protection against the mountain weather.

Inside, she spoke briefly with the clinic's resident physician and director, Jonas Rigodon, a Haitian doctor who has worked for years with Furin and Partners In Health, the organization that had brought them both to this remote, spectacular place. Though a private nonprofit, Partners In Health has strong ties to Harvard Medical School's Department of Social Medicine, Harvard School of Public Health's Francois-Xavier Bagnoud Center for Health and Human Rights, and Brigham and Women's Hospital's Division of Social Medicine and Health Inequalities.

The clinic offers the only health care for miles around. It officially serves a population of 7,000 people, though its reputation draws some from much farther away. Doctors there see as many as 300 patients a day, suffering everything from minor illnesses to gunshot wounds. Things were under control, Furin learned that morning, except for a small baby, admitted hours earlier, malnourished and dehydrated.

(See *Nohana*, page 20)

HARVARD
**World
Media**

www.hno.harvard.edu/worldmedia/

Editor's note: This is one in an occasional series of pieces sampling the myriad efforts of the University and its affiliated institutions to improve health around the world.



After being dropped off in Nohana, Lesotho, by a six-seater Cessna airplane, Jennifer Furin works at a rural clinic to save the life of 15-month-old Kazabelo, who suffers from severe malnutrition and, possibly, AIDS.

This month in
Harvard history

Sept. 7, 1775 — The “New-England Chronicle or Essex Gazette” advertises that the Harvard Corporation and Overseers have chosen the Town of Concord as “a proper place for convening the Members of the said public Seminary of Learning” as the Revolution rages in Cambridge. Students are due in Concord by Oct. 4; probably less than 100 of the expected 125 show up. The College stays in Concord for eight months.

September 1899 — Construction of Phillips Brooks House is completed, and the building is ready for occupancy.

September 1918 — As the end of World War I draws near, the Harvard War Records Office shows 6,074 Harvard men in active military service:
U.S. Army — 4,805
U.S. Navy — 1,104
Foreign Allied Armies — 165
The death toll is 124.

Sept. 28, 1925 — In Sanders Theatre, John Philip Sousa and his band present an afternoon concert for the University community. Featured soloists are soprano Marjorie Moody, cornetist John Dolan, and xylophonist George Carey.

From the Harvard Historical Calendar, a database compiled by Marvin Hightower

MEMORIAL SERVICE

Memorial set for Henry C. Moses

A memorial service honoring Henry C. Moses, the former dean of freshmen, will take place Sept. 19 at 2:30 p.m. at the Memorial Church. A reception will follow. Moses held the Harvard post from 1977 to 1991. He passed away April 16 at the age of 66.

FACULTY COUNCIL

At its first meeting of the year on Sept. 10, the Faculty Council welcomed new members, elected subcommittees for 2008-2009, and discussed the work of the council in the new academic year.

The council next meets on Sept. 24. The preliminary deadline for the Oct. 21 Faculty meeting is Oct. 6, at 9:30 a.m.

PRESIDENT’S OFFICE
HOURS 2008-09

President Drew Faust will hold office hours for students in her Massachusetts Hall office on the following dates:

Thursday, Oct. 16, 4-5 p.m.
Thursday, Nov. 13, 4-5 p.m.
Monday, March 16, 2009, 4-5 p.m.
Thursday, April 23, 2009, 4-5 p.m.

Sign-up begins one hour earlier unless otherwise noted. Individuals are welcome on a first-come, first-served basis. A Harvard ID is required.

MessageMe subscribers must re-register, first-time registrants sought

Given the convenience and widespread acceptance of text messaging, the University is offering this form of correspondence as another technological solution for communicating with students, faculty, and staff in the event of an extreme emergency on campus. As part of the University Emergency Management Plan, the Harvard community can now sign up to receive text message alerts in addition to traditional methods of notification.

In August 2007, Harvard University rolled out its MessageMe Emergency Notifi-

cation System. Initial participation in the program has been good, but University administrators hope that all members of the Harvard community will take advantage of this service. MessageMe is an opt-in service that requires annual renewal. To renew a subscription or to enroll in the program, visit www.messageme.harvard.edu. The process takes less than a minute.

Harvard community members are encouraged to renew or sign up for this text messaging service in order to facilitate rapid and effective communication throughout

the community. Users who elect this option and provide contact information may be assured that all of the information provided is private and will not be shared. A valid Harvard University ID and PIN, or an eCommons ID, is required for access to this service.

As with all methods of communication, text messaging has limitations, so it is important to consider MessageMe as one of many solutions for emergency alerts. A mobile phone is required for registration and must be SMS (text messaging) enabled.

Staff photo Rose Lincoln/Harvard News Office



Class of
2012
brings color

After more than a century of having his picture taken, the statue of John Harvard remains unsmiling, even when adorned with balloons.

POLICE REPORTS

Following are some of the incidents reported to the Harvard University Police Department (HUPD) for the week ending Sept. 8. The official log is located at 1033 Massachusetts Ave., sixth floor, and is available online at www.hupd.harvard.edu/.

Sept. 4: An officer was dispatched to 219 Western Ave. to take a report of property damage to a motor vehicle. The reporting individual stated that upon arrival the individual observed damage to the driver’s side rear door. At 111 Western Ave., an officer was dispatched to a motor vehicle accident with no personal injuries. The officers reported damage to a side mirror. A bicycle was reported stolen at Chase Hall. A backpack containing a T-shirt, gym clothes, and electric razor was reported

stolen from the Science Center. Graffiti was reported at the School of Public Health, 718 Huntington Ave.

Sept. 5: A bicycle and cable lock were reported stolen from the Science Center.

Sept. 6: An officer was dispatched to 4 Blackfan Circle to take a report of a stolen bicycle seat.

Sept. 7: An officer was dispatched to Bright Hockey Center to take a report of a theft. The following unattended items were reported missing: a T-shirt, credit cards, and four pairs of athletic shoes. A laptop computer was reported stolen from Langdell Hall.

Sept. 8: Graffiti was reported at 180 Longwood Ave. An unattended iPod was reported stolen at Leverett House. A laptop and \$50 in cash were reported stolen at McCulloch Hall.

OBITUARIES

Harvard News Office writer
Ken Gewertz dies at 63

Longtime writer for the Harvard News Office Ken Gewertz died on Sept. 7 at his home in Watertown, Mass. He was 63. Gewertz gave 22 years of service to the University. As a reporter for the Harvard University Gazette, he covered almost every aspect of life at Harvard, but he concentrated on the arts and humanities. Elegant prose and quiet erudition distinguished his work. Gentleness and kindness distinguished his life. A memorial service at Harvard is being planned.

- Obituaries for the following:
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 - Julius B. Richmond, page 25
 - Stuart Cary Welch Jr., page 25



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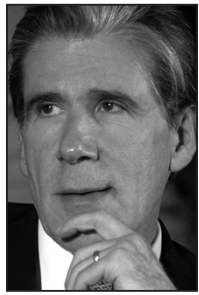
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Julio Frenk will assume deanship of School of Public Health

Julio Frenk, an eminent authority on global health who served as the Minister of Health of Mexico from 2000 to 2006, will become the new dean of the Harvard School of Public Health (HSPH), President Drew Faust announced July 29.



Frenk

Frenk is expected to assume the deanship in January 2009, succeeding Barry R. Bloom, who will step down as dean at the end of December following a decade of distinguished service.

A former visiting professor at the HSPH, Frenk was the founding director-general of the National Institute of Public Health in Mexico, one of the leading institutions of health education and research in the developing world. He also served as an executive director of the World Health Organization (WHO), where he focused on bringing scientific

evidence to bear on health policy. He is currently a senior fellow in the global health program of the Bill & Melinda Gates Foundation, as well as president of the Carso Health Institute in Mexico City and chair of the board of the University of Washington's Institute for Health Metrics and Evaluation.

"Julio Frenk is admired worldwide for his leadership, vision, and remarkable record of accomplishment in public health," Faust said. "He is a highly influential figure at the crossroads of scholarship and practice, known for his profound concern with how scientific evidence can foster improvements in health systems and policy in societies around the world. He has a highly multidisciplinary outlook, a strong commitment to reducing disparities in health, and a deep understanding of the power of education and research to change lives for the better. His leadership experience in government, in the academy, at WHO, and beyond, along with his longstanding connections to the HSPH, holds great promise to serve Harvard well. This is an unusually exciting moment for

the field of public health, and I am delighted that Julio Frenk has agreed to guide us forward in such an important domain."

"I am deeply grateful to President Drew Faust for the honor of appointing me as the next dean of the Harvard School of Public Health," Frenk said. "For the best part of my professional life, I have maintained intense contact with the School and have benefited enormously from interaction with its faculty. I see this appointment as a unique opportunity to continue to advance the notion that has inspired my entire career, namely, that science and scholarship represent the enlightened way to guide purposeful social transformation for the benefit of every human being. The School is in a very strong position, thanks to Barry Bloom's outstanding accomplishments as dean. With this formidable foundation, it will be possible to take the School to new heights. We are at the threshold of a new era in public health, and Harvard offers

(See **Frenk**, next page)

Christine Heenan named VP for Government, Community and Public Affairs



Staff photo Justin Ide/Harvard News Office

Christine Heenan, founder and president of the Clarendon Group Inc., will assume the vice presidency of Government, Community and Public Affairs in October.

New vice president announced

Christine Heenan, former director of community and government relations at Brown University and founder and president of the Clarendon Group, a communications and government relations consulting firm, has been appointed vice president for government, community and public affairs at Harvard University, President Drew Faust announced on July 15.

Beginning Oct. 1, Heenan, who is also an adjunct assistant professor of public policy at Brown, will oversee Harvard's relations with all levels of government — federal, state, and local; coordinate a wide range of activities involving the University's neighboring communities; and manage communications and media relations for the University.

"I am very pleased that Christine Heenan has agreed to serve in this role," said Faust. "Given Harvard's active engagement with our neighbors, the increasing scrutiny of universities by policy makers at all levels, and the ever-present need to share with our own community and the broader public a sense of who we are and what we do, this position has never been more important. Christine brings a great deal of relevant experience in government and communications, a longstanding commitment to higher education, and a strong reputation for en-

ergetic leadership. I look forward very much to working with her in the years ahead."

"Harvard's reach, resources, and leadership create both real challenges and unprecedented opportunities, and I am excited to be joining the University at such an important time in its rich and storied history," said Heenan.

Heenan also currently serves as a senior adviser at Public Strategies, a national public affairs firm based in Austin, Texas, and previously served as a senior policy analyst on the White House Domestic Policy Council staff.

During her time at Brown, Heenan managed government relations at the federal, state, and local level for both the university and its medical school, led the university's community relations efforts, and served as a communications adviser to Presidents Vartan Gregorian and E. Gordon Gee. She also created Brown's first comprehensive directory of community initiatives, helped produce the report issued by the university's Visiting Committee on Diversity, and managed the review and adoption of the university's first campus-wide master plan in the city of Providence.

In 2005, she became an adjunct assistant professor of public policy at the A. Alfred

Taubman Center for Public Policy and American Institutions at Brown University, where she has taught graduate courses and undergraduate seminars on the role of communications in policy making.

Heenan left Brown in 2000 to found the Clarendon Group Inc., where as president she directly manages the firm's strategic communications and planning practices and leads business development efforts. At the firm, Heenan has also led numerous projects focused on higher education and health care, working for clients such as Bennington College, Boston College, Dartmouth College, the University of Massachusetts, and the University of Pennsylvania.

Prior to entering politics and communications, Heenan worked as a business strategy consultant focusing on business process analysis, cost analysis, reengineering, and strategic planning.

She has served on a number of boards and commissions and is currently a member of the boards of the Providence Children's Museum, Dorcas Place Literacy Center, and the Rhode Islanders Sponsoring Education.

Heenan earned her B.A. in journalism at Boston University. She is married to Michael Mello, and has two sons, Alex, 11, and Colin, 9.

NEWSMAKERS

Michael Sandel honored at APSA meeting

Anne T. and Robert M. Bass Professor of Government **Michael J. Sandel** was honored by the American Political Science Association Aug. 30 at the group's annual meeting in Boston.

The official dedication, which was titled "Excellence in Teaching: Honoring the Career of Michael Sandel," included a video presentation on Sandel's popular undergraduate course, "Justice," and comments by a number of his former graduate student teaching fellows, many of whom are currently professors at various colleges and universities across the country.

Sandel has taught political philosophy at Harvard since 1980. His books include "Liberalism and the Limits of Justice," "Democracy's Discontent: America in Search of a Public Philosophy," and "The Case Against Perfection: Ethics in the Age of Genetic Engineering."

Harvard-affiliated Dana-Farber reaps CIO 100 Award

CIO Magazine has named the Dana-Farber Cancer Institute a 2008 CIO 100 Award winner. The magazine presents the award to 100 organizations around the world that exemplify the highest level of operational and strategic excellence in information technology. The winners were announced in the magazine's Aug. 15 issue.

The award recognizes Dana-Farber for its implementation of a system to collect clinical research study data electronically. Dana-Farber clinicians and researchers had been using a paper-based system to compile data and generate reports, but the process was time-consuming and there was a margin for inaccurate data input.

Dana-Farber's electronic data capture system uses Phase Forward's In-Form Integrated Trial Management software to collect all data and generate documents electronically. This software allows for greater organization and immediate sharing of data. Previously, data could take four to eight weeks to be accessed.

More Newsmakers, pages 7, 9

— Compiled by Andrew Brooks
Send Newsmakers to andrew_brooks@harvard.edu

Stewart to head HKS's Carr Center for Human Rights Policy

Scholar, author, and activist Rory Stewart has been named director of the Carr Center for Human Rights Policy at the Harvard Kennedy School (HKS). Stewart will assume his new position on Jan. 1.

Stewart is founder and chief executive of the Turquoise Mountain Foundation, a non-profit organization dedicated to the regeneration of the historic commercial center of Kabul, Afghanistan. He previously worked for the Coalition Provisional Authority in Iraq, serving as deputy governorate coordi-

nator and senior adviser. Stewart also served as an officer in the British Army and worked for the British Diplomatic Service in Indonesia, Montenegro, and elsewhere. He is author of "The Prince of the Marshes" and "The Places In Between," a critically acclaimed book that chronicled his 6,000-mile journey by foot across Afghanistan, Pakistan, India, and Nepal.

"Rory Stewart has had a remarkably diverse and impressive career," said David T. Ellwood, dean of HKS. "His depth and

breadth of experience and his exposure to some of the world's most pressing human rights issues position him perfectly to lead the Carr Center in the years ahead."

Stewart, who earned his B.A. and M.A. in modern history and politics, philosophy, and economics from Oxford University, previously served as a research fellow at the Carr Center during the 2004-05 academic year.

"The Carr Center has led some of the most thoughtful and challenging work in the human rights field over the last 10 years,"

said Stewart, "and it is a great privilege to return to it. I look forward to working with scholars, practitioners, and students in making human rights a critical component in the formation of solid public policy in the U.S. and across the world."

Stewart will succeed Sarah Sewall, who is completing her third year as director of the Carr Center. Sewall will continue to serve on the Kennedy School faculty and focus her research on international security.

FAS names Sweet dean for administration and finance

By Robert Mitchell
FAS Communications

Harvard University Faculty of Arts and Sciences (FAS) Dean Michael D. Smith has announced the appointment of Brett C. Sweet as FAS dean for administration and finance, effective Sept. 2.

Sweet will assume the redefined executive dean's position that has been held on an interim basis by Robert Scalise. Scalise will return to his position as Harvard's director of athletics.

In a message to the faculty, Smith said Sweet "will provide leadership for our administrative functions and will collaborate" with the central University administration. "Also, working closely with the academic deans, he will help me to address the challenges, opportunities, and priorities before the FAS," Smith said. Smith also thanked Scalise for his many contributions to the faculty.

"Brett Sweet will be a terrific addition to the FAS administrative team. He will bring to the position a strong financial background, strategic planning experience, and the leadership skills needed to move us forward as we pursue our many goals and objectives," Smith said.

Sweet is an accomplished leader of university operations. He is currently executive vice president for administration and finance and chief financial officer at Baylor College of Medicine (BCM) in Houston. In that capacity, he is responsible for the college's finances, information technology, human resources, facilities, business operations, and investments. He began his tenure at BCM in 2004 as vice president for finance and chief financial officer responsible for financial planning and analysis, grants and contracts, and student financial services, among other areas.

From 2000 to 2004, Sweet was a principal with the Boston Consulting Group in the United States and in Germany where his work focused on competitive strategies and change management in large, multinational organizations as well as academic medical centers and colleges.

Prior to that, Sweet was a nuclear submarine officer on the USS Georgia, responsible for tactical and strategic employment of the submarine, its strategic missile systems, and the supporting reactor plant. In addition, during and after graduating from college, Sweet spent time as a cryptographic researcher.

Sweet holds an M.B.A. degree from Harvard (2000) and a B.S. in mathematics from the U.S. Naval Academy (1993).

Staff photo: Jon Chase/Harvard News Office



Lights fantastic

Lamps for Thayer Hall are queuing up patiently before being transported to light up the dorm rooms of hardworking students.

Frenk

(Continued from previous page)

the breadth of disciplines, the depth of knowledge, and the wealth of faculty and students to lead this process of renewal, which holds so much promise for the world."

Frenk's appointment as dean follows his service in a series of prominent leadership positions in public health, spanning nearly 25 years. From 1984 to 1987, he was founding director of the Center for Public Health Research in Mexico's Ministry of Health. Then, from 1987 to 1992, he served as the founding director-general of the National

For more on Julio Frenk,
www.hsph.harvard.edu/multimedia/JulioFrenk/

Institute of Public Health in Mexico, guiding its emergence as one of the developing world's most respected and innovative centers of education and research in public health.

He was a visiting professor at Harvard's Center for Population and Development Studies from 1992 to 1993. He went on to serve from 1995 to 1998 as executive vice president of the Mexican Health Foundation, as well as the director of its Center for Health and the Economy. There he led a critical analysis of the Mexican health system that laid the foundations for his later reform efforts while Minister of Health.

From 1998 to 2000, he served as a senior official in the World Health Organization. In that role, as executive director of evidence and information for policy, he focused his efforts on developing a strong base of scientific evidence to inform health policies and on building the capacity of different countries to enhance the performance of their health systems.

As Minister of Health of Mexico from 2000 to 2006, Frenk pursued an ambitious agenda to reform the nation's health system, with an emphasis on redressing social inequality. He is perhaps best known for his work in introducing a program of comprehensive national health insurance, known as

Seguro Popular, which expanded access to health care for tens of millions of previously uninsured Mexicans. Mexico's wide-ranging health-systems reform efforts during Frenk's tenure as Minister of Health are featured in a six-part series in the leading medical journal *The Lancet*.

"Julio Frenk is recognized as one of the great visionaries of global health," said Bloom, who has served as HSPH dean since January 1999. "From his academic career to his policy work at WHO to putting his innovative ideas into practice in Mexico, he has shown the highest level of commitment to creating effective health systems focused on improving prevention and care for everyone, particularly the poor and underserved. Harvard is privileged to have him return to our community."

After completing his six-year term as Minister of Health in 2006, Frenk accepted an appointment in February 2007 as a senior fellow in the global health program of the Bill & Melinda Gates Foundation. He has also served, since 2007, as president of the Carso Health Institute in Mexico, a nonprofit organization focused on health-systems innovations in Latin America, and as chair of the board of the University of Washington's Institute for Health Metrics and Evaluation, which aims to improve the health of the world's populations by providing the best information on population health.

"Julio Frenk is an ideal choice as the next dean of the Harvard School of Public Health," said Harvey V. Fineberg, president of the Institute of Medicine, who was the HSPH dean from 1984 to 1997 before serving for four years as Harvard's provost. "No one today has a firmer grasp on the multiple dimensions of public health, from the generation of new scientific knowledge to the implementation of large-scale programs on the ground. As a visionary leader, insightful analyst, institutional innovator, and pragmatic problem solver, Julio Frenk has every qualification to lead Harvard to new levels of achievement in public health."

Frenk holds a medical degree from the National Autonomous University of Mexico, as well as three advanced degrees from the University of Michigan: master of public health, master of arts in sociology, and a Ph.D. in medical organization and sociology.

A member of the U.S. Institute of Medicine and the National Academy of Medicine of Mexico, he has published widely, having written or co-written more than 100 articles in academic and professional journals as well as numerous books and monographs, book chapters, and publications in the popular press. He has also served on the editorial boards of more than a dozen publications, and over the years has been associated with the faculties of the University of Michigan, the School of Public Health of Mexico, the National Autonomous University of Mexico, the National Institute of Public Health of Mexico, Iberoamerican University, and the Harvard School of Public Health. His own research has focused on health systems, the relationship of globalization and health, and the policy implications of shifts in the dominant patterns of health and disease. Past president of the Mexican Society for Quality in Health Care, and former vice president for Latin America of the American Public Health Association, he previously served on the visiting committee for the Harvard School of Public Health and was the School's commencement speaker in both 2001 and 2007.

In announcing the appointment, Faust expressed her appreciation for the broad-ranging input offered during the search. "I'm very grateful to the many members of the HSPH community who offered helpful advice," Faust said, "and especially to the members of the faculty advisory group, who were generous and open in their thoughtful counsel about the School and its future leadership. I'm also deeply grateful to Barry Bloom, who has been a valued colleague since I arrived at Harvard in 2001 and who I know will remain a vital presence in our own community and in the public health community worldwide."

Forst Harvard's first executive vice president, senior adviser to president

Edward C. Forst, global head of the Investment Management Division for Goldman, Sachs & Co. and a member of the firm's Management Committee, will become Harvard University's first executive vice president, effective Sept. 1, Harvard President Drew Faust announced June 18.

As executive vice president, Forst will be the principal ranking operating officer at the University. In this newly created position, Forst will serve as a senior adviser to the president and will lead the development of administrative capacity in new areas that cross School boundaries or traditional administrative units. He will oversee the financial,

administrative, and human resources functions, and administrative components of information technology for the central administration. He also will serve as a member of the board of the Harvard Management Company, which manages the University's endowment.

Forst, a graduate of Harvard College, also served as Goldman Sachs' chief administrative officer. In that role, he was the co-head of the firm's global operations, technology, financial administration, services, real estate, and security functions.

"I am extremely pleased that Ed Forst has agreed to return to Harvard and serve as the University's

first executive vice president," said Faust. "Ed brings deep experience with a large, complex, and global organization, a proven track record in managing the functions that will be central to his new role, and an outstanding reputation for his collegial and effective leadership style.

"We have important work ahead of us and Ed Forst's leadership and experience will help ensure that our administrative capacity can support our academic ambitions at the level of excellence they deserve," Faust continued. "I look forward to work-



Staff photo Kris Sribbe

Forst(See **Forst**, next page)

'A distinguished statistician and social scientist' to head up Faculty Development and Diversity

Judith Singer named senior vice provost



Staff photo Stephanie Mitchell/Harvard News Office

Judith D. Singer, the James Bryant Conant Professor of Education, has been appointed senior vice provost for Faculty Development and Diversity.

Judith D. Singer, the James Bryant Conant Professor of Education and former academic dean at the Harvard Graduate School of Education (HGSE), has been named senior vice provost for Faculty Development and Diversity at Harvard University, Provost Steven E. Hyman announced June 17.

"A distinguished statistician and social scientist, Judy is highly regarded for her intellect and judgment, her prior experience as both academic dean and acting dean with colleague John Willett of the Graduate School of Education, her collaborative style, and her commitment to high standards and diversity in faculty appointments," said Hyman. "I am pleased that she has agreed to serve as the senior vice provost and that she, President Faust, and I will be working closely together on critical issues of faculty development and diversity across the University."

As senior vice provost — a position created in 2005 at the recommendation of the Task Force on Women Faculty and the Task Force on Women in Science and Engineering — Singer will address the need for more systematic analysis and review of appointments, with an eye to ensuring greater excellence and diversity in faculty ranks across the University.

"Judy has the leadership skills that will be especially important for the Office of Faculty Development and Diversity in the next

phase of its development," said Harvard President Drew Faust. "Though we have made progress on ensuring excellence and diversity in faculty ranks across the University, we still have more to do. I am confident that Judy Singer understands these challenges and will take them on with energy and effectiveness."

Singer also will review junior faculty and other term appointments across the University, serve as an adviser to the president and provost in the ad hoc tenure process, and oversee the administration of funds designated to facilitate appointments of outstanding scholars who contribute to increased faculty diversity. She will participate in the annual academic planning process chaired by the provost and develop annual reports on the status of diversity and development efforts across the University.

In close collaboration with the faculty and School deans, Singer will also focus on improving the climate for women and underrepresented racial and ethnic groups on campus through the systematic collection and analysis of faculty demographic and appointments data, the implementation of University-wide diversity education programs, the development of junior faculty mentoring programs, and a variety of other initiatives.

"Harvard's outstanding faculty is the envy of higher education throughout the world," said Singer. "I am honored to have

this opportunity to work with President Faust, Provost Hyman, and colleagues across the University towards our shared goal of sustaining Harvard's excellence while increasing its diversity in the years ahead. In just three short years, Evelyn Hammonds has taken the Office of Faculty Development and Diversity from a theoretical glimmer in two task force reports to a thriving central force in making the University a more welcoming and diverse institution. I look forward to building on this strong foundation as we devise strategies for attracting exceptional scholars, nurturing their development, and ensuring that the Harvard of the future is a place where excellence and diversity flourish hand in hand."

Reporting directly to the president and provost, the Office of the Senior Vice Provost for Faculty Development and Diversity is supported by two advisory committees: the University Committee on Faculty Development and Diversity, comprised of School representatives designated by the deans, and an advisory committee of senior faculty members to assist with the administration of the Faculty Development and Diversity Fund. As senior vice provost, she will also be a member of the Academic Advisory Group, which includes the deans of the faculties, the president, and the provost.

Singer, who will remain a member of the

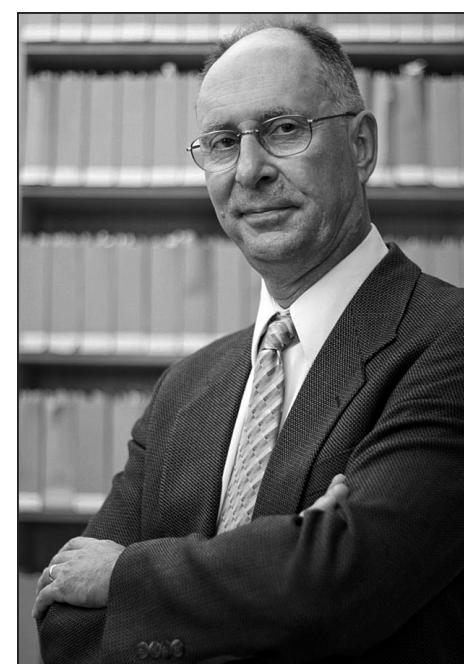
(See **Singer**, next page)

Photo by Eliza Grinnell/SEAS

Frans Spaepen will begin as interim dean of the School of Engineering and Applied Sciences on Sept. 15.

Frans Spaepen to be interim dean of SEAS

Materials scientist Frans Spaepen will serve as interim dean of Harvard University's School of Engineering and Applied Sciences (SEAS), effective Sept. 15, Michael D. Smith, dean of the Faculty of Arts and Sciences, announced on Aug. 15.

Spaepen, the John C. and Helen F. Franklin Professor of Applied Physics and director of Harvard's Rowland Institute, will assume administrative duties from Venkatesh Narayanamurti, who has served as dean for the past decade. Earlier this year Narayanamurti announced his intention to step down as dean in order to focus on assessing undergraduate education and University management while on a yearlong sabbatical at Harvard Business School.

"I am pleased that Frans has agreed to serve as interim dean — especially during such an exciting time for interdisciplinary science and engineering at Harvard. Given his breadth of experience as a researcher, teacher, and administrator, SEAS will be in excellent hands," said Smith. "What's always impressed me about Frans is his almost innate ability to meld leadership with partnership. Those who have been fortunate enough to work with him, whether in the lab or the classroom, always emphasize his skills as a mentor and collaborator."

"Moreover, Frans' work in materials science is part of a long tradition of world-class research at Harvard that spans not only engineering, but physics, chemistry, and biology. His ability to understand and appreciate

(See **Spaepen**, next page)

Spaepen

(Continued from previous page)

ate such intellectual breadth makes him ideally suited to support SEAS's continuing mission to foster links at Harvard and connect with the wider world," Smith added.

Spaepen's research interests span a wide range of experimental and theoretical topics in materials science, such as amorphous metals and semiconductors, the structure and thermodynamics of interfaces, mechanical properties of thin films, and the perfection of silicon crystals for metrological applications, and the use of colloidal systems to simulate the dynamics of crystals and glasses.

Spaepen has served as director of the Rowland Institute at Harvard since 2002, the year the research laboratory merged with the University, and has long played an active role in several interdisciplinary research centers on campus, including the National Science Foundation-funded Materials Research Science and Engineering Center and the Center for Nanoscale Systems.

"I am grateful for this opportunity to serve as the interim dean at SEAS," said Spaepen. "I was fortunate to have been a part of the marvelous transformation of engineering and applied sciences at Harvard over the past three decades. The open, collaborative, and interdisciplinary spirit that guided the activities at Rowland is the very philosophy that has made SEAS such a unique place among engineering schools. I look forward to working even more closely with my colleagues to continue this tradition and to build on Dean Narayanamurti's many accomplishments of the recent years."

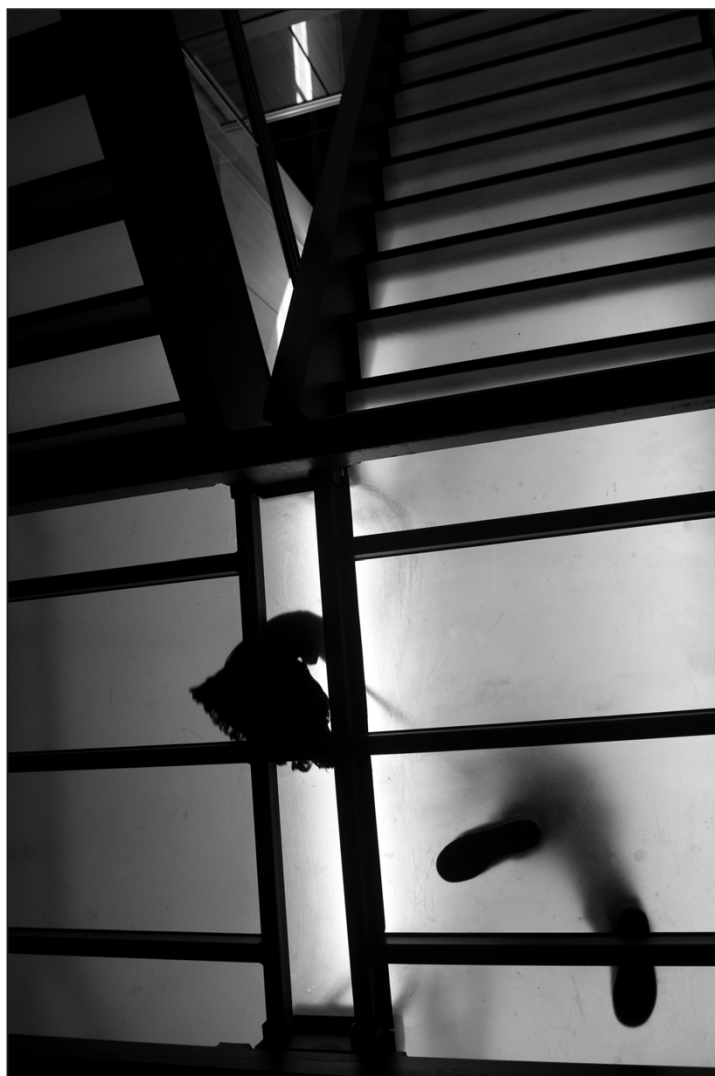
At the Rowland Institute, located on the banks of the Charles River near the campus of the Massachusetts Institute of Technology, Spaepen was committed to carrying out the vision of the institute's originator, Edwin H. Land. The acclaimed researcher, entrepreneur, and Polaroid Corp. founder, who died in 1991 at the age of 81, sought to create an ideal laboratory by encouraging discovery between traditional disciplines; supporting small-scale laboratory science; emphasizing technical support of the highest level for experimentation; and enabling the best young minds to be creative through proper and sustained support.

"Frans will bring the same energy and drive to SEAS that he fostered while at Rowland, and I am thrilled that someone of his intellectual stature has agreed to serve," said Narayanamurti, who continues as the John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences. "At the same time, when it comes to leadership, Frans possesses a thoughtful, quiet wisdom that will serve SEAS well, especially as it continues to blossom into its new role as a School. He is well known for enabling talented people to pursue excellence in all areas."

Spaepen, elected to the National Academy of Engineering in 2008, is a fellow of the American Physical Society (where he served as chairman of the Division of Materials Physics in 1992), a fellow of the Metallurgical Society of the American Institute of Mining, Metallurgical and Petroleum Engineers, a member of the Vlaamse Academie voor Wetenschappen en Kunsten, and a fellow of the Materials Research Society. He is also co-editor of "Solid State Physics," principal editor of the Journal of Materials Research, and an editorial board member of a number of other materials science journals.

Spaepen received his undergraduate degree in metallurgical engineering at the University of Leuven in 1971, and received a Ph.D. in applied physics from Harvard University in 1975. He joined the faculty of the then-Division of Applied Sciences in 1977, and was appointed associate professor in 1981 and professor in 1983. From 1990 to 1998 Spaepen was director of the Harvard Materials Research Laboratory/Materials Research Science and Engineering Center.

View from below



Staff photo Kris Snibbe/Harvard News Office

Maxwell-Dworkin's translucent staircase gives a ghostly look to an industrious floor mopper.

Forst

(Continued from previous page)

ing with Ed and others to enhance that capacity, and to strengthen the center's effectiveness in its administrative dealings across the University."

"The decision to leave Goldman Sachs was an extremely difficult one," said Forst. "My 14 years at the firm were shaped by a variety of different jobs across various markets, but the common ingredient was the opportunity to work with outstanding, committed people. The rare opportunity to work with the outstanding scholars, educators, students, and professionals at Harvard was compelling. I care deeply about the University's mission and that commitment has only grown since my first day as a student. I look forward to supporting the research, scholarship and community that defines Harvard University."

The search was guided by an advisory group that included Ann Berman, former vice president for finance; Chris Gordon, chief operating officer of the Allston Development Group; Evelyn Hammonds, senior vice provost for faculty development and diversity until May 31, now dean of Harvard College; Elena Kagan, dean of the Law School; William Lee, co-managing partner of the law firm WilmerHale and a Harvard Overseer from 2002 to 2008; Jay Light, dean of the Business School; Kasia Lundy, chief of staff to the president and provost; and Clayton Spencer, vice president for policy.

A member of the Management Committee at Goldman Sachs since 2004, Forst was named the global

head of the Investment Management Division earlier this year, a position that encompasses responsibility for Goldman Sachs Asset Management, which has \$895 billion under management, and the firm's private wealth management business. He served as co-head of that division since September 2007. From 2004 to 2007 he served as an executive vice president of The Goldman Sachs Group Inc. and as the firm's chief administrative officer. He was elected a partner in 1998 and served in senior roles in both the Fixed Income, Currency and Commodities Division and the Equities Division.

Forst served as the chair of the Securities Industry and Financial Markets Association through November 2007. He is currently a trustee of Carnegie Hall and has also served as a trustee of Woods Hole Oceanographic Institution, a private non-profit ocean research, engineering, and education organization.

He is a 1982 graduate of Harvard College and earned an M.B.A. from Wharton in 1988. He has served as co-chair of the reunion gift committee for his 25th and 20th Harvard reunions and as vice chair for his 15th reunion. Since 2005 he has co-chaired the University Committee on Student Excellence and Opportunity, which engages with all of the University's Schools to determine the most effective ways to attract top students and reduce financial barriers that might deter their enrollment.

Forst and his wife, Susan, who received a B.A. from Yale in 1987 and an M.B.A. from Wharton in 1993, have four children.

Singer

(Continued from previous page)

HGSE faculty, succeeds Professor Evelyn Hammonds, who was appointed dean of Harvard College in March 2008.

"I am thrilled that Judy Singer has accepted the position of senior vice provost for Faculty Development and Diversity. Judy has the intellectual breadth, the leadership skills, and the commitment to equity, excellence, and diversity that this position requires. I'm confident that she will do a terrific job," said Hammonds.

An internationally renowned social statistician, Singer's professional interests focus on improving the quantitative methods used in social, educational, and behavioral research. She is primarily known for her contributions to the practice of multilevel modeling, survival analysis, and individual growth modeling, and to making these and other statistical methods accessible to empirical researchers.

Appointed an assistant professor of education at HGSE in 1984, Singer was elevated to full professor in 1993. She was named the James Bryant Conant Professor of Education in 2001. From 1999 to 2004 Singer served as academic dean for HGSE and acting dean from 2001 to 2002.

During her tenure at Harvard, she has served in a variety of advisory positions and on numerous committees, including the Faculty Development and Diversity Committee and the Pilot Fund Committee for the Office of Faculty Development and Diversity. Singer also was a member of the faculty advisory groups convened during the recent searches for the Harvard president and dean of the HGSE.

"Judy Singer is a talented administrator who has served as a trusted friend and colleague," said Kathleen McCartney, the Gerald S. Lesser Professor in Early Childhood Development and dean of HGSE. "Although all her colleagues at HGSE will miss her, we are grateful that she will be serving in this key role for the University."

Singer's wide-ranging interests have led her to publish across a broad array of disciplines, including statistics, education, psychology, medicine, and public health. In addition to writing and co-writing nearly 100 papers and book chapters, she has also co-written three books, including "By Design: Planning Better Research in Higher Education and Who Will Teach: Policies that Matter" (Harvard University Press).

Her most recent book with longtime collaborator John B. Willett is "Applied Longitudinal Data Analysis: Modeling Change and Event Occurrence" (Oxford University Press), for which they received honorable mention from the American Publishers Association for the best mathematics & statistics book of 2003. Already a classic, "Applied Longitudinal Data Analysis" offers an accessible in-depth presentation of two popular statistical methods for analyzing longitudinal data: multilevel modeling of individual change and hazard/survival modeling for event occurrence (in both discrete- and continuous-time).

Singer and Willett have recently begun their next collaborative venture, writing a new book on multilevel modeling titled "Applied Multilevel Data Analysis" (AMDA). AMDA will offer an accessible in-depth presentation of the many approaches for modeling multilevel data structures, integrating ideas from multiple disciplines including statistics, econometrics, and survey sampling.

Singer has received numerous awards for her work, including a fellowship at the Center for Advanced Study in the Behavioral Sciences and election to the National Academy of Education. Along with her collaborators, the American Educational Research Association (AERA) has given her the Raymond B. Cattell Award, the Review of Research Award, and the Palmer O. Johnson Award.

Singer graduated from the State University of New York at Albany with a B.A. in mathematics and she received a Ph.D. in statistics from Harvard University in 1983.

Radcliffe appoints Bahn associate dean for advancement

By **Jennifer Corke**
Radcliffe Institute Communications

Sharyn Bahn was appointed the associate dean for advancement at the Radcliffe Institute for Advanced Study at Harvard University, effective Aug. 4.

With a distinguished career in development, Bahn comes to Radcliffe from the American Repertory Theatre (A.R.T.) in Cambridge and previously from the American Conservatory Theater in San Francisco. She succeeds Tamara Elliott Rogers, who was appointed Harvard's vice president for alumni affairs and development.

"It is a pleasure to welcome Sharyn to Radcliffe. We look forward to watching her talents flourish, as she reaches out to our alumnae

community, complements the range of intellectual and creative knowledge on our leadership team, and helps guide staff to new successes. With deep connections to East and West Coast audiences and experience working with the Harvard and Radcliffe art communities, Sharyn is a natural fit with Radcliffe's mission," said Barbara J. Grosz, dean of the Radcliffe Institute.

At Radcliffe, Bahn will oversee the areas of communications, development, and alumnae services. Previously, she served as the director of development at the A.R.T., which is one of the top-ranked regional theaters in the United States and operates in association with Harvard.

Bahn has also served as director of development at the American Conservatory The-

ater in San Francisco and has held senior development positions at the University of California, San Francisco, WGBH, and Cambridge College. For more than a decade, she was the founding executive director of the Women's Technical Institute in Boston, the first post-secondary licensed and accredited technical school for women. She earned a certificate of advanced studies in management from Radcliffe in 1988 and a master's in teaching from the Harvard Graduate School of Education in 1971.

As Radcliffe's newly appointed associate dean for advancement, Sharyn Bahn will oversee communications, development, and alumnae services.

Photo by Tony Rinaldo



Staff photo Stephanie Mitchell/Harvard News Office

Lori Gross will work collaboratively with the Office for the Arts to make Harvard's arts and cultural resources more visible and accessible to both the Harvard and Greater Boston communities. She will also be an important participant in Allston planning discussions involving arts and culture components.

Gross joins Harvard as associate provost

Will work with Harvard's arts and culture institutions

Lori E. Gross, director of arts initiatives and adviser to the associate provost at the Massachusetts Institute of Technology (MIT), has been named associate provost for arts and culture at Harvard University, Provost Steven E. Hyman announced June 16.

A longtime advocate for the arts, Gross has worked at MIT over the past 13 years advancing arts-related initiatives and facilitating dialogue on arts and culture policy nationally and internationally. In her role as director of arts initiatives, her principal responsibilities included strategic planning, communications policy and implementation, resource development, and facilities planning.

"I am delighted that Lori is joining Harvard," said Hyman. "This is an exciting moment for the University as it contemplates its enormous cultural and artistic resources, and works to integrate arts more closely into the life and curriculum of the University. Lori's experience will be very valuable to us in this process."

As part of her new responsibilities, Gross will work with Harvard's arts and cultural institutions, including the Har-

vard Art Museum, the American Repertory Theatre, Villa I Tatti, and the Harvard University Library, on issues ranging from day-to-day operational matters to strategic planning to fundraising. She will work collaboratively with the Office for the Arts to make Harvard's arts and cultural resources more visible and accessible to both the Harvard and Greater Boston communities. She will be an important participant in Allston planning discussions involving arts and culture components. Finally, she will work in close collaboration with whatever governance and organizational structure is adopted for the arts, in view of recommendations made by the Task Force on the Arts, to begin implementing key Task Force recommendations. The Task Force, established by President Drew Faust in November 2007, is scheduled to report its findings in late fall 2008.

"Joining Harvard during this time of heightened attention to the arts is tremendously exciting," said Gross. "I am thrilled to have the opportunity to work with Harvard's art and cultural institutions and colleagues from throughout the University to create an even more dynamic arts envi-

ronment for Harvard and its surrounding communities."

Gross graduated from Colgate University in 1975 with a degree in art history, and earned a master's degree in both library science and art history from Case Western Reserve University in 1978 and 1979 (respectively). Gross joined MIT in 1995 as founding director of the Museum Loan Network, where she worked to make objects of cultural heritage more accessible to institutions across the United States and encouraged museums to be catalysts for interdisciplinary collaboration in their communities. Previously, Gross was director of museum services at the Canadian Center for Architecture in Montreal, served as a museum and art consultant in Madrid, and as an assistant director of the Daniel Wolf Gallery in New York. She has been actively involved with MIT's Creative Arts Council, the College Art Association, and the American Association of Museums, is a board member of the Underground Railway Theater, and co-chaired the Cambridge Public School Arts Advisory Council.

Gross, who lives in Cambridge, assumed her new position on July 14.

NEWSMAKERS

Inaugural Ibor Award granted to Leon Eisenberg

Maude and Lillian Presley Professor of Psychiatry *Emeritus* **Leon Eisenberg** will receive the first Ibor Award from the World Psychiatric Association on Sept. 23 in Prague. Named after pioneering Spanish psychiatrist Juan José López Ibor, the award aims to recognize individuals or institutions whose professional efforts have improved the condition of those affected by mental illnesses. The award consists of a diploma and 40,000 euros.

Eisenberg has chaired the Department of Social Medicine and Health Policy at Harvard since 1993. "He has made gigantic contributions to child psychiatry, to public health aspects of mental disorders, and to social psychiatry over a most productive lifetime," stated the award announcement.

Charles V. Willie presents at NAACP conference

Charles W. Eliot Professor of Education *Emeritus* **Charles V. Willie** addressed the education workshop at a recent convention (July 14) of the National Association for the Advancement of Colored People (NAACP) in Cincinnati.

His lecture was titled "Effective Grassroots Social Action in Public Education." Several principles in citizen civil action shared with workshop members were based on Willie's 2008 book, "Grassroots Social Action: Lessons in People Power Movements" (co-authored with Steven Ridini and David Willard). Willie congratulated the NAACP for restoring the good working relationship between lawyers and scholars that existed before the litigation of Brown v. Board of Education.

Shinagel awarded honorary degree

The Academic Board of Universidad Alta Direccion (Panama) voted to award a doctoral degree honoris causa to **Michael Shinagel**, dean of Continuing Education and University Extension, in recognition of his "outstanding job in educating executives all over Central and South America." Hailed as "a remarkable educator," Shinagel received his diploma from the Universidad Alta Direccion President Ricardo Greco, at a special awarding ceremony held Aug. 20 in Cambridge, Mass.

In 2000, Shinagel was awarded a degree of doctor honoris causa from the International University of Ecuador for his contributions to professional continuing education, and in 2003, he received the degree of doctor honoris causa from the Universidad Argentina de la Empresa in Buenos Aires, awarded in recognition of Shinagel's long and distinguished career in continuing higher education.

— Compiled by Andrew Brooks

Parkes named Gordon McKay Professor of Computer Science

David C. Parkes, a leader in research at the nexus of computer science and economics, has been appointed Gordon McKay Professor of Computer Science in Harvard University's School of Engineering and Applied Sciences (SEAS). The appointment was effective July 1.

Parkes, 35, was previously John L. Loeb Associate Professor of the Natural Sciences and associate professor of computer science at Harvard, where he has been on the faculty since 2001.

"If you want to know what kind of research and teaching exemplifies the core values of SEAS, you need to look no further than David Parkes," says Venkatesh Narayanamurti, dean of SEAS and John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences. "David combines applied mathematics, computer science, game theory, and economics to explore everything from the future of electronic commerce to the ethics of online trading to social computing to problems in optimization. As impressive, he is one of those accessible and approachable professors that Harvard students really get to know — and as a result, are inspired."

Parkes' research contributions have come primarily in the areas of mechanism design and multiagent systems, where he has applied the power of computing to the design of optimal economic systems. In computational mechanism design — the science of designing computational processes that achieve socially desirable outcomes in spite of the self-interest of participants — Parkes developed the iBundle algorithm, the first ascending-price combinatorial auction to yield optimal allocation of resources under a reasonable bidding model. Parkes has since developed scalable methods of preference elicitation, market clearing, and pricing for expressive markets, including combinatorial exchanges.

Parkes is a pioneer in mechanism design in dynamic environments. His more recent work has included the experimental study of selfish behavior in peer-to-peer file sharing, and also optimal environment design, for inducing desired outcomes in distributed systems.

More broadly, Parkes' work has focused on multiagent systems, a broad category that includes not only classical economic systems but also social groups engaged in activity such as the production and dissemination of information, as seen among the anonymous and voluntary contributors to the Web site Wikipedia. His research has used computer science and modeling to help explain the incentives, cooperation, and behavior of participants in a variety of multiagent systems.

Parkes' expertise also touches on topics in artificial intelligence, electronic commerce, and computational game theory. Parkes received an M.Eng. (first class) in engineering and computing science from Oxford University in 1995 and a Ph.D. in computer and information science from the University of Pennsylvania in 2001. He joined the Harvard faculty as an assistant professor in 2001, becoming an associate professor in 2005.

Among other honors, Parkes received a Thouron Award in 1995, the National Science Foundation CAREER Award in 2003, an Alfred P. Sloan Research Fellowship in 2005, and, earlier this year, Harvard's Roslyn Abramson Award for excellence in undergraduate teaching.



Parkes

Staff file photo Matt Craig

Harris new dean of undergrad education

By Steve Bradt
FAS Communications

Jay M. Harris, a longtime member of the Harvard faculty who has also served in a variety of administrative roles at the University, has been named Harvard College's new dean of undergraduate education. His appointment, by Harvard College Dean Evelyn M. Hammonds, was effective July 1.

In this new position, Harris will work with Hammonds and the Office for Academic Programs on supervising all aspects of the undergraduate curriculum. He will oversee the new Program in General Education, the Freshman Seminars Program, the Office of International Programs, the Derek Bok Center for Teaching and Learning, the Harvard Writing Program, and the Advising Programs Office.

In her acknowledgment of Harris' appointment, Hammonds commented, "I am delighted that Jay Harris will join us in reinforcing undergraduate education

as the centerpiece of Harvard College. Jay's commitment to undergraduates is long-standing and well known. He also brings a wealth of experience and deep institutional knowledge to this new role,



Harris

and our students will reap the benefits of his wisdom and administrative savvy. I'm pleased that we will add Jay's considerable skills to an already strong team here in the College."

Harris has been a member of the Harvard faculty since 1989. He is currently the Harry Austryn Wolfson Professor of Jewish Studies and chair of the Department of Near Eastern Languages and Civilizations. In 2000, he was named a Harvard College Professor, a five-year appointment recognizing outstanding undergraduate teaching and

mentoring. Since 2003 he has served as co-master of Cabot House. Harris has also authored or edited nine books. He was editor of the Association for Jewish Studies Review from 2000 to 2004. For the past year Harris was senior adviser to former College Dean David Pilbeam, after serving as director of Harvard's Center for Jewish Studies from 2001 to 2006.

Harris holds a B.A. from Columbia University, awarded in 1978; master's degrees from Columbia and the Jewish Theological Seminary, awarded in 1980 and 1983, respectively; and a Ph.D. from Columbia, awarded in 1985. After various teaching appointments at Columbia, the Jewish Theological Seminary, Princeton University, and the University of Pennsylvania, he joined Harvard as an assistant professor of Jewish studies in 1989. Harris was named the Harris K. Weston Associate Professor of the Humanities in 1991, and the Harry Austryn Wolfson Professor of Jewish Studies in 1994.

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Staff photo Jon Chase/Harvard News Office

Welcome, freshmen!

Some first-year students reclaim luggage from a moving truck as they line up in front of Thayer Hall to collect keys to their dormitory rooms.

Former diplomat Burns gets HKS appointment

R. Nicholas Burns, the highest-ranking career diplomat at the U.S. Department of State until his retirement in April, has been appointed professor of the practice of diplomacy and international politics at the Harvard Kennedy School (HKS). Burns officially joined the faculty on Sept. 1. He will also serve on the board of directors at the School's Belfer Center for Science and International Affairs.

Burns has an extensive background in diplomacy and international affairs, having served most recently as U.S. undersecretary of state for political affairs (2005-08). In that position he served as the third-ranking official in the State Department as a lead member of Secretary of State Condoleezza Rice's senior management team. Among other accomplishments, Burns shepherded successful negotiations to achieve new agreements with India in civil nuclear energy; negotiated a \$30 billion long-term military assistance agreement with Israel; and served as the chief U.S. negotiator on Iran's nuclear ambitions.

Prior to his appointment at the state department, Burns served as U.S. ambassador to NATO (2001-05); U.S. ambassador to Greece (1997-2001); and spokesperson for the U.S. State Department (1995-97). Burns also served for five years at the White House as director for Soviet Affairs for President Bush (1990-92), and then as special assistant to President Clinton and senior director for Russian affairs (1993-95). Burns earned his bachelor's degree at Boston College, and his master's degree from Johns Hopkins School of Advanced International Studies. He also holds honorary doctorates from 10 American universities.

"Nick Burns is considered one of the most effective and thoughtful diplomats of his generation. His impressive record of public service across five presidential administrations over 27 years attests to his strengths as a leader, negotiator, and communicator," said HKS Dean David T. Ellwood. "The broad range of experience Nick brings to the Kennedy School and the Belfer Center will inform our re-

search and shape our classroom discussions for years to come."

Graham T. Allison, director of the Belfer Center, said, "Harvard Kennedy School is fortunate to have someone of Nick Burns' stature and insight joining our community. His firsthand experience in grappling with the central challenges of foreign policy will enrich faculty, researchers, and students alike."

"It's an outstanding appointment," said Sen. Edward M. Kennedy. "Nick Burns is a brilliant and highly respected diplomat. Kennedy School students will benefit immensely from his extensive hands-on experience in foreign policy. I know President Kennedy would be proud of this appointment."

"I am honored to join the Harvard faculty and look forward to working with the students and my new colleagues at the Kennedy School," said Burns. "I intend to teach and write about contemporary American foreign policy and the leadership role our country must play in an increasingly globalized world."

Herschbach, Bisson to assume new roles in Harvard College



Staff file photo Stephanie Mitchell/Harvard News Office
Georgene Herschbach will be responsible for planning, strategic management, and coordination of services supporting the undergraduate experience in Harvard College.

By **Steve Bratt**
FAS Communications

Georgene Herschbach, a longtime member of the Harvard community who has served the campus in a wide range of capacities, has been named to the new position of dean for administration in Harvard College, Dean Evelyn M. Hammonds and Jay Harris, dean of undergraduate education, jointly announced Aug. 19.

Hammonds and Harris also announced the appointment of Noël Bisson as associate dean in the College's newly renamed Office of Undergraduate Education, formerly the Office of Academic Programs, where she will assume many

of Herschbach's current responsibilities.

"We are making a conscious effort to reshape the College's structure to better correspond with the administrative offices of the Faculty of Arts and Sciences," Hammonds says. "This integration of roles will help the College and FAS to better coordinate our activities, priorities, and strategic planning. As importantly, this is an early step in the process of thinking about new ways to knit together undergraduate academics and student services so as to enrich our students' experiences both inside and outside the classroom."

As dean for administration, effective immediately, Herschbach will be responsible for planning, strategic man-

agement, and coordination of services supporting the undergraduate experience in Harvard College. Her portfolio will include the College's offices of Residential Life, Student Activities, and Administration and Finance, as well as responsibility for student counseling and human resources.

"I can think of no more qualified candidate than Georgene Herschbach to serve as dean for administration in Harvard College," Hammonds says. "During her lengthy service to Harvard, she has held leadership roles in many of the offices that will now report to her. I am thrilled that she has agreed to serve in

(See *College*, next page)

NEWSMAKERS

Inaugural Nieman Foundation medal honors Iraq coverage

John Walcott, Washington bureau chief of the McClatchy Co., is the first recipient of the I.F. Stone Medal for Journalistic Independence. Walcott is being honored for leading his team of reporters in their probing, skeptical coverage of events during the run-up to the Iraq war at a time when most U.S. news organizations failed to question the motives and rationale for the invasion of Iraq.

Established earlier this year, the I.F. Stone Medal recognizes journalistic independence and honors the life of investigative journalist I.F. Stone. The award, administered by the Nieman Foundation for Journalism at Harvard and the Nieman Watchdog Project, will be presented annually to a journalist whose work captures the spirit of independence, integrity, and courage that characterized I.F. Stone's Weekly, published 1953-1971.

IN BRIEF

RiverSing to ring in fall with communal sing-along

Later this month, the Revels and the Charles River Conservancy will again team up for RiverSing, a free and open-to-the-public event celebrating the beauty of the Charles River and the first day of fall. Featuring seasonal music and communal singing, the Sept. 21 event will be held on the John W. Weeks Footbridge linking Allston and Cambridge.

The public is invited to convene at Winthrop Park at 5 p.m. for preshow entertainment. At 5:45, a grand procession featuring giant puppets, circus performers, and brass bands will make its way to the footbridge. Led by Revels music director George Emlen with help from a massed chorus, the communal singing begins at 6 p.m. and lasts until sunset when the underbelly of the bridge will be illuminated by LED lighting.

RiverSing is sponsored in part by the Harvard Office of Community Affairs and the Allston Development Group. For more information on RiverSing 2008, visit www.revels.org.

More briefs on pages 11, 12, 18

— Compiled by Andrew Brooks
Send news briefs to andrew_brooks@harvard.edu



Photo by Jon Rou/Emory University

With a strong background in medieval theology and textual studies, Mark D. Jordan has recently trained his scholarly focus on the field of sexual ethics.

Jordan appointed first Niebuhr Professor at HDS

Mark D. Jordan has been appointed the first Richard Reinhold Niebuhr Professor of Divinity at Harvard Divinity School. He will take up the new post in January 2009. Jordan has been Emory University's Asa Griggs Candler Professor since 1999.

"Mark Jordan is both a distinguished Christian ethicist and a widely recognized authority on Aquinas, but equally important he has an outstanding reputation as a gifted and dedicated teacher and mentor," said Dean of the Faculty of Divinity William A. Graham. "Thus, he is an exceptionally fine inaugural incumbent of the Niebuhr chair, given its focus on Christian values and morality in their social context."

With a strong background in medieval theology and textual studies, Jordan has recently focused on the field of sexual ethics, producing books that are widely regarded to have opened important new avenues of discourse, especially in regard to homosexuality and to ethical reflection on marriage. These books include: "The Invention of Sodomy in Christian Theology" (University of Chicago Press, 1997); "The Silence of Sodom: Homosexuality in Modern Catholi-

cism" (University of Chicago Press, 2000); "The Ethics of Sex" (Blackwell, 2001); and "Blessing Same-Sex Unions: The Perils of Queer Romance and the Confusions of Christian Marriage" (University of Chicago Press, 2005).

"I am delighted, and honored, by this appointment to the Niebuhr chair," Jordan said. "The gift establishing the chair recognizes many ideals that I also affirm: the challenge for religious ethics in imagining new forms of life, the promise of theological writing, and the quiet importance of teaching. I look forward to joining many others at the Divinity School who have long been thinking about these questions — not least in regard to religious controversies around gender and sexuality."

Before coming to Emory, where he served as director of the program in comparative literature and religion, Jordan taught at the University of Notre Dame. He was educated at St. John's College (in Annapolis, Md., and Santa Fe, N.M.), the Universidad de Granada, and the University of Texas, where he received a doctorate in philosophy in 1977.

The Niebuhr chair was made possible by a 2006 gift from HDS alumnus Thomas M. Chappell, co-founder and chief executive officer of Tom's of Maine. The new professorship was named to honor Hollis Professor of Divinity *Emeritus* Richard Niebuhr, and intended, in the tradition of Niebuhr's work, to address issues of Christian morality, ethics, and values in the contemporary interaction of religion and society.

"For me the realm of values and ethics was introduced systematically with Richard Niebuhr's courses," Chappell, who received a master of theological studies degree from HDS in 1991, recalled at the time of his gift. "It is a great joy to be able to help the School in the teaching of values and ethics, an area where there's a tremendous need. With this gift I am honoring Dick Niebuhr, but I'm also finding a practical way to present the utility of Dick's teaching."

Chappell's gift of more than \$3 million is being augmented by \$1 million from Harvard University's Professorship Challenge Fund, a \$50 million initiative established in 2006 to encourage the support of faculty in key areas.

College

(Continued from previous page)

this important capacity.”

Since earning her Ph.D. in organic chemistry at Harvard in 1969, Herschbach has served as co-master of Currier House, assistant dean and director of special programs, registrar, and associate dean for administration and finance.

She has served since 2005 as associate dean for academic programs in the College, where she has supervised Freshman Seminars, Expository Writing, International Programs, the Program for Research in Science and Engineering (PRISE), the Core Program, and the Derek Bok Center for Teaching and Learning.

Herschbach’s new purview will complement that of Jay Harris, who became the College’s dean of undergraduate education on July 1. Harris says, “I am gratified that Georgene Herschbach will be right down the hall sharing her wisdom and vast knowledge of Harvard. I am certain that her influence will continue to be felt in all aspects of the undergraduate curriculum, even as she moves into a new set of duties.”

Bisson, currently associate dean and secretary of the Faculty of Arts and Sciences, will assume her new duties effective immediately. She will supervise the Office of Undergraduate Education, working with the dean for undergraduate education and the dean of Harvard College to identify priorities in the academic program and define academic policy. Additionally, she will provide administrative and programmatic support for several programs, including the Derek Bok Center for Teaching and Learning, the Harvard College Writing Program, and the Office of International Programs.

“Noël Bisson’s new role as a key player in shaping and guiding our undergraduate programs reflects her passion for liberal arts education and its importance in today’s world,” Hammonds says. “She brings to this position both administrative savvy and a keen interest in our students honed by her experience as a teacher and adviser.”

Harris added, “I am delighted to welcome Noël back to the Office of Undergraduate Education, and look forward to working with her on many aspects of the undergraduate experience. Her wealth of experience and insight, as well as her demonstrated administrative skills, will be invaluable as we move forward.”

Bisson earned a Ph.D. in musicology from Harvard in 1998. After completing her doctorate, she served as a lecturer in the Department of Music and was a post-doctoral fellow at the Derek Bok Center for Teaching and Learning from 2000 to 2001.

Before being named associate dean and secretary of FAS in 2007, Bisson was assistant dean for academic programs in the College, overseeing the allocation of the instructional support budget and working with several Faculty Standing Committees. From 2002 to 2006 Bisson was a lecturer in the Department of Music at Colgate University in Hamilton, N.Y., and then served as assistant and associate dean of the college at Colgate. In this decanal role she chaired Colgate’s student disciplinary board, developed and wrote legislation for a new disciplinary program that was adopted by the faculty and board of trustees, served on a wide range of academic committees that spanned many areas of college life, and was administrative adviser to 350 undergraduates each year.

Former Nashville mayor new director of IOP

Bill Purcell, the former mayor of Nashville, Tenn., has been named director of the Institute of Politics (IOP) at Harvard Kennedy School (HKS). Purcell will assume the post Sept. 1.

Purcell has spent more than 30 years in public service, law, and higher education. During his eight-year tenure as mayor of Nashville (1999-2007), the city saw unprecedented economic expansion, an increase in Metro school funding of more than 50 percent, and the development of more than 26,000 affordable housing units. His accomplishments as a civic leader earned him “Public Official of the Year” honors in 2006 by Governing Magazine. Purcell was an IOP Fellow in fall 2007.

Purcell has served as founding dean of the College of Public Service and Urban Affairs at Tennessee State University since January 2008 and was founder and director of the Child and Family Policy Center at Vanderbilt University (1996-99). He served as a legislator in the state of Tennessee House of Representatives (1986-96) and as majority leader (1990-96). Previously, Purcell worked as a senior assistant public defender in the Nashville Metro Public Defender’s Office (1981-85). He earned his bachelor’s degree at Hamilton College and his law degree at Vanderbilt University School of Law.

“Bill Purcell is a highly distinguished public servant with an extensive background in economic development, educational reform, and community revitalization,” said David T.

Ellwood, dean of HKS. “His broad range of expertise and the unique perspectives he brings to the IOP will be a tremendous asset to the institute and the Kennedy School in the years ahead.”

U.S. Sen. Edward M. Kennedy (D-Mass.), an IOP senior advisory committee member, said, “Mayor Purcell has had an impressive career in politics and government and I’m delighted he’ll lead the Institute of Politics. He knows that young people are the future and is deeply committed to enabling them to meet the nation’s challenges through public service.”

“Bill Purcell will be a wonderful leader for the IOP,” said IOP senior advisory committee member Caroline Kennedy, who served on the search committee. “His extensive experience in elective office, his bipartisan governing style, and his commitment to public service as a way of life will inspire a new generation of students.”

“I am greatly honored by this appointment to lead the Institute of Politics, a truly unique and irresistible professional and personal opportunity,” said Purcell. “The institute’s central undergraduate mission is critical to the future of public service in this country, and its program reach is both local and global. I am looking forward to again working with the outstanding students and staff of the institute and the extraordinary colleagues at the Harvard Kennedy School.”

Tennessee State University President

Melvin N. Johnson said, “Bill Purcell came to Tennessee State University [TSU] at a very pivotal time in its academic history. As the founding dean of the College of Public Service and Urban Affairs [CPSUA], he has proven to be a strategic thinker, visionary leader, and astute academician.

“During his tenure at TSU, he created a rigorous CPSUA program, focusing on improving the college’s academic environment, and attracting and retaining the best and brightest students from throughout the nation,” Johnson added.

“I am elated to have had the opportunity to collaborate with Bill on numerous academic initiatives. Without a doubt, he is one of our nation’s most accomplished and visionary leaders. I wish to thank him for his commitment to Tennessee State University and the state of Tennessee. We look forward to observing his future success at Harvard’s Institute of Politics.”

Purcell will succeed former U.S. Congressman James A. Leach (R-Iowa), who graciously stepped in to serve as IOP director for the 2007-08 academic year. “We are grateful for Congressman Leach’s leadership and his dedicated service to the Kennedy School,” said Ellwood. “His commitment, enthusiasm, and steady hand helped guide the IOP during a very exciting year.” Leach will return to his faculty appointment at Princeton University, where he is the John L. Weinberg Visiting Professor of Public and International Affairs at the Woodrow Wilson School.

Staff photo Kris Snibbe/Harvard News Office



Sprucing up

Luis Vega makes sure he leaves no trace behind of his painstaking job painting the windows of the Memorial Church.

Shorenstein Center announces fellows, visiting faculty

The Joan Shorenstein Center on the Press, Politics and Public Policy, located at Harvard’s John F. Kennedy School of Government, recently announced its fall fellows.

“There has never been a more challenging — nor a more exciting — time to focus on the press, politics, and public policy, and our fellows and visiting faculty this semester offer a fresh and compelling perspective on all that is happening,” said Alex S. Jones, director of the Shorenstein Center.

The Shorenstein Fellows will work on research projects while at the center. The 2008 fall fellows are as follows:

Sandra Nyaira, reporter for the Association of Zimbabwe Journalists, was the political editor for the now-banned Zimbabwean independent newspaper, the Daily News. Her work at the Shorenstein Center will focus on new

media and its influence on public policy and politics in Zimbabwe.

Rory O’Connor, author, blogger, journalist, and filmmaker, is the co-founder and president of the media firm Globalvision Inc. and oversees the nonprofit media watchdog site MediaChannel.org. O’Connor is a Sagan Fellow and will do research and write a paper on trust, journalism, and social networks.

Eric Pooley, contributor to Time magazine, is the Shorenstein Center’s Kalb Fellow. He has been managing editor of Fortune, editor of Time Europe, and national editor of Time. He will focus on press coverage of the climate change issue.

Edward Schumacher-Matos, founder of Rumbo Newspapers and Meximerica Media, was Buenos Aires bureau chief at The New York Times and later was the founding editor

and associate publisher of The Wall Street Journal Americas. He will focus on how media coverage, activist campaigns, and the presidential election impact public opinion.

In addition, **Maralee Schwartz** will be the Visiting Edward R. Murrow Lecturer on the Practice of the Press and Public Policy. She will teach a course titled “How Politicians Connect with Voters: The 2008 Presidential Campaign.” Schwartz spent more than two decades as a reporter and editor at The Washington Post.

The Joan Shorenstein Center on the Press, Politics and Public Policy is a Harvard research center dedicated to exploring the intersection of press, politics, and public policy in theory and practice. The center strives to bridge the gap between journalists and scholars and, increasingly, between them and the public.

Harvard alumni and friends contribute \$651M in fiscal year 2008

Harvard University announced today (Sept. 11) that gift receipts totaled nearly \$651 million last year — a \$37 million increase over fiscal year 2007. Fiscal year 2008 fundraising results were the second-best in Harvard's history, ranking only behind fiscal year 2001, when the University raised \$658 million. In that extraordinary year, Harvard received a one-time gift from the Ford Foundation of \$50 million, as well as four other gift payments of \$25 million or more. All told, more than 86,000 alumni and friends made gifts to Harvard last year.

"We are enormously grateful to our alumni and friends for their generosity and

continued dedication to Harvard," said Tamara Elliott Rogers, vice president for alumni affairs and development. "Every single gift will assist the University in realizing its mission," she said.

Donors supported a wide variety of Harvard's programs last year, reflecting the University's depth, breadth, and exceptional quality in a rich diversity of teaching programs and fields of study. Major new commitments to support financial aid, graduate fellowships, international study, science and engineering, the arts, interdisciplinary programs, and faculty positions were made across Harvard's 14 Schools and many of its

affiliated institutions, most notably the Harvard Art Museum.

In addition to these exceptional gift receipts, the University announced that it had received the largest gift from an alumnus in Harvard's history. David Rockefeller '36, G '37, LL.D. '69 pledged \$100 million to increase dramatically learning opportunities for Harvard undergraduates through international experiences and participation in the arts.

Approximately \$70 million of the gift will enable undergraduates to learn about other cultures directly by participating in high-quality international experiences, which

may include study for credit, internships, service, work, research, or travel. Rockefeller has designated \$30 million of his gift to provide hands-on learning opportunities in the arts. As a cornerstone of the recently announced effort to renovate the Fogg Art Museum, the arts component of Rockefeller's gift will enable the construction of three new study centers in which undergraduates will have personal encounters with original works of art.

Among the generous new commitments to Harvard announced during the year were:

(See **Fundraising**, next page)

New ID cards make college life safer

'Smart' cards going to undergrads, others

By **Corydon Ireland**
Harvard News Office

Just tap it.

That's this year's first homework for returning undergraduates, new freshmen, and others in Harvard's Faculty of Arts and Sciences (FAS) who need access to FAS's residential Houses and Harvard Yard dormitories.

By the start of classes, about 10,000 members of the Harvard community will be issued ID cards that take advantage of new technologies and are easier to use than the old ones.

The new card — embedded with a computer chip and a specialized antenna — can be tapped against wall-mounted readers, or read from a few inches away, even through clothing or a wallet.

The new card goes to FAS students, resident tutors, proctors, dining service workers, Senior Common Room members, and vendors who need access to the residential facilities. About 450 swipe-style card readers at Harvard Houses and dormitories have been replaced.

In the near future, University officials said, the remainder of the Harvard community will be re-carded. Other Schools will adopt the new ID card and its flexible technologies based on their individual needs.

Both the new and old cards will still work in swipe-card readers used for access to libraries, classrooms, athletic facilities, Crimson Cash, and more.

New cardholders will not have to call anybody or turn anything on, Harvard experts said. No interruption in access is anticipated.

The new cards are called "smart cards" because they contain an embedded computer chip. The tiny microprocessor — as thin as a hair and the size of a fingertip — makes these next-generation ID cards very difficult to duplicate.

Older ID cards use magnetic stripes or barcodes. But even though ID cards that rely on magnetic stripes may be low-cost and easily programmed, they are not very durable or technologically flexible.

Moving to the new cards comes less than a year after a Harvard College student was caught producing fake IDs.

The incident prompted a University task



Staff photo Rose Lincoln/Harvard News Office

The new card can be tapped against wall-mounted readers, or read from a few inches away, even through clothing or a wallet.

force of experts in administration, security, and technology to study the latest in ID and building-access devices, in search of a system resistant to counterfeiting.

The task force settled on smart cards that are known as "HID iClass" cards. They should not be confused with "prox" or "MIFARE" cards, which are based on different technologies.

The "contactless" HID smart cards being introduced at Harvard can hold multiple credentials, process more transactions than other card technologies, and — because of encryption — are very difficult to fake.

Harvard's new tap-and-go ID cards are embedded with a cryptographic chip that is unique to the University. That adds an additional level of protection against fraudulent copying.

Holding the new ID card next to a reader begins a cascade of "mutual authentication" steps that resembles a successive comparison of keys. The card reader "asks" the card, "Do you have the same key I do?" If the answer is no, nothing further happens.

The format of data exchanged by card, reader, and a downstream controller device is specific to Harvard.

The smart cards are also more secure for

Frequently asked questions about the new ID cards,

http://vpf-web.harvard.edu/ofs/huid/card_faq.shtml

a nontechnological reason: To get one, a student or staffer must present a valid government-issued photo ID — not just an old Harvard ID card.

Forget sentiment too. You have to surrender your old ID card in order to get a new one. (Old IDs will be shredded and discarded.)

At first glance, the new cards are nearly identical to the old. They're the same credit-card size, though feel slightly thicker, and they have the same white background as the old cards.

On the front is the same text and picture positioning. On the back is the familiar wide magnetic stripe ("magstripe"), but along with some additions: a second (and thinner) magnetic stripe, an iClass external identification number, and an HID iClass copyright line.

Embedded inside the card itself is a thin, framelike antenna coil, which is used to transmit the card's information to wall-mounted readers.

Both the new magstripe and the antenna are features that can accommodate future software and applications. Some day, for instance, smart cards could be adapted for secure document printing or for the "logical access" needed to secure information technology systems.

The new cards require some extra precautions. Because of the internal chip and antenna, they can't be bent, punched with holes, run through the dryer, stored near a heat source, or even be left out in direct sunlight. Users should also not scratch the magnetic stripes by mixing their ID cards with change, keys, or other objects.

Harvard officials also pass on an amusingly New England caution: Don't use the new smart cards to scrape ice off your car windshield.

Replacement costs for the high-tech ID cards will reflect the high cost of making them. Harvard's traditional swipe-style cards cost 5 cents each. Every new smart card costs \$7.50.

IN BRIEF

HMS's Bruce Walker to speak on AIDS epidemic

The Program for Evolutionary Dynamics will present a lecture by Bruce Walker, professor of medicine at Harvard Medical School on, Sept. 19 at 2:30 p.m. in the Science Center lecture hall. The title of the talk is "The AIDS Epidemic: Immune Selection Pressure, Viral Evolution, and Prospects for a Vaccine." The talk is free and open to the public. The Distinguished Lecture Series of the Program for Evolutionary Dynamics is designed to provide scientific leaders with the opportunity to address innovative interdisciplinary research interests in a public forum with a general scientific audience.

HRC to hold auditions

In preparation for its 2008-09 repertoire (including performances of Mozart's "Requiem" and Poulenc's "Gloria"), the Harvard Radcliffe Chorus (HRC) will be holding auditions for University students on the following days and times: Sept. 11 from noon to 3 p.m.; Sept. 12 and Sept. 14 from 1 to 4 p.m.; and Sept. 15 from 1 to 5 p.m. and again from 7 to 10 p.m. These auditions will be held in Paine Music Building.

Additionally, chorus auditions for staff and members of the Harvard community will be held at the Lowell Lecture Hall on Sept. 13 from 1 to 5 p.m. and Sept. 14 from 6 to 10 p.m. Tryouts will consist of scales, ear and pitch memory exercises, and sight-reading. A prepared piece is not required. Each session will be 10 minutes and held on a first-come, first-served basis.

For more information, visit www.hcs.harvard.edu/~hrc/, or email associate conductor Kevin Leong at kleong@fas.harvard.edu.

HUCTW childcare fellowships available

The Harvard Union of Clerical and Technical Workers (HUCTW) has announced that applications for the 2009 Childcare Fellowship are now available for download at www.huctw.org/fund_childcare/2009_application.pdf. The fund covers a portion of day care, after-school care, and vacation/summer day camps. Please note that this fund does not cover private school tuition with the exception of preschool. HUCTW accepts applications only once a year. Applications are due Sept. 26. For more information, visit www.huctw.org/fund_childcare/2009_instructions.pdf.

— Compiled by Andrew Brooks

IN BRIEF

Semitic Museum extends docent deadline

The Semitic Museum is currently seeking volunteer docents for the coming year. Docents will provide guided tours to school groups and the general public on the museum's collection of archaeology of the ancient Near East. The current exhibits include artifacts from ancient Israel, Egypt, Mesopotamia, and Cyprus. The initial training program will provide guidance from experts in the field. The full training program began Sept. 9, although interested candidates may still join the Sept. 16 class. The training continues through May 12.

For more information, contact Dena Davis at davis4@fas.harvard.edu. Applications are due immediately and can be found at www.fas.harvard.edu/~semitic/docentintro.html.

BSC set to offer course in reading, study strategies

This fall, the Bureau of Study Counsel (BSC) will present the Harvard Course in Reading and Study Strategies. Harvard's longest continuously running course uses readings, films, and classroom exercises to aid students in reading more purposefully and selectively, while gaining greater speed and comprehension.

The 14-day, hour-long course will be offered in two separate sessions: Oct. 14 to Nov. 6, when the class will meet at 4 p.m. during the workweek except Wednesdays, and Oct. 15-Nov. 14, which will meet Mondays, Wednesdays, and Fridays at 8 a.m. The course is open to Harvard students (\$25 for undergraduates) and the general public (\$150).

To register for the class, visit the BSC, 5 Linden St., or call (617) 495-2581.

Safra Foundation accepting fellowship applications

The Edmond J. Safra Foundation Center for Ethics at Harvard is currently seeking applications for its Faculty Fellowships in Ethics program for the 2009-10 academic year. Applications are invited from teachers and scholars who wish to develop their ability to address questions of moral choice in the professions and public life more generally. Applicants should hold a Ph.D. in philosophy, political theory, theology, or related discipline, or an advanced professional degree, and should be no more than 10 years from their first academic appointment.

Fellows normally receive stipends of up to one-half their academic-year salaries, not exceeding a maximum stipend amount set each fall. Each fellow is expected to devote full time to the activities of the center during the period of the fellowship, Sept. 1 through June 30.

The deadline for applications is Oct. 31. For more information or to apply, visit www.ethics.harvard.edu.

— Compiled by Andrew Brooks
Send news briefs to andrew_brooks@harvard.edu



Staff photos Rose Lincoln/Harvard News Office

Senior Sarah Lockridge-Steckel (left) greets the Class of 2012, imparting the wisdom of a veteran as the neophytes — and President Drew Faust — listen.

Déjà vu marks Opening Exercises

During the Saturday night (Sept. 6) downpour, brought on by tropical storm Hannah, a circuit breaker tripped, plunging Adams House into darkness. While Harvard electricians tracked down the problem, freshmen were sent over to the Science Center for food, movies, and an impromptu meeting with President Drew Faust. So at Opening Exercises the following afternoon, Faust greeted the Class of 2012 with the camaraderie of a fellow sufferer: "This is billed as my welcome speech to the Class of 2012 but it turns out instead to be a chance for me to say, 'Hello again.'"

And Faust found another silver lining to those thunderclouds. "The disruptions, the adrenaline rush, the inconvenience of last night's events probably had the effect of distracting you from other anxieties that customarily well up within freshmen and their parents at this moment each year."

The 1,666 students were also welcomed by Dean of Freshmen Thomas A. Dingman, College Dean Evelyn Hammonds, Faculty of Arts and Sciences Dean Michael D. Smith, and senior Sarah Lockridge-Steckel. Gathered in Tercentenary Theatre under sunny skies and on rain-soaked grounds, the students, their families, and the occasional passing tourist who stopped to listen, heard Harvard's leaders offer the freshmen challenges, opportunities, and a handful of stories about those who had come before them.

As the Kuumba Singers of Harvard College serenaded them, the freshmen gathered on the steps of Widener Library for their class photo. As they joked and goofed for the camera, few probably realized that it wouldn't be until June 2012 before they'd gather like that again.



After successfully herding the Class of 2012 onto the steps of Widener Library, a photographer from Fay Photography (above) takes his best shots. Outside of Weld Hall, Mark and Elizabeth Hindal (right) say goodbye to their daughter Louise, an incoming freshman and, as her father put it, their 'oldest and only.'



Fundraising

(Continued from previous page)

\$25 million from Jorge Paulo Lemann '61 to the University for the David Rockefeller Center for Latin American Studies in support of Brazilian studies; \$15 million from an anonymous donor to the University Science Initiatives in support of innovations in science; \$13 million from the estate of Alan Gleitsman to the Harvard Kennedy School for social activism; \$10 million to support Harvard's research efforts in the areas of energy and the environment; and \$10 mil-

lion from the estate of Ferris Booth to provide unrestricted support for Harvard Divinity School.

Harvard Law School successfully concluded its Setting the Standard fundraising campaign in June and is expected to have exceeded its \$400 million goal. Campaign gifts boosted Harvard Law School's total to \$54 million last year, \$10 million higher than in fiscal year 2007.

The Faculty of Arts and Sciences (FAS), which includes Harvard College, the School of Engineering and Applied Sciences, and

the Graduate School of Arts and Sciences, received the highest dollar amount in contributions among the University's various funds: \$191 million, representing approximately 29 percent of total giving. The FAS total represents the generosity of tens of thousands of donors, who have provided critical funds for the FAS to address core and emerging needs such as financial aid and fellowship programs, House renewal, faculty expansion, undergraduate experience initiatives, research, and construction projects.



Staff photo Stephanie Mitchell/Harvard News Office
Dana Waring (left) and Chao-Ting Wu are working to help understand and educate others about the host of ethical, legal, and practical issues that have come up as a result of advances in human genomics.

When genetics gets personal

Personal DNA analysis promises ethical quandaries

By Alvin Powell
 Harvard News Office

Just five years after the Human Genome Project announced it had decoded the first human DNA, the era of personal genetics is dawning, bringing with it not just the promise of targeted, personalized medicine and a new level of self-knowledge, but also a host of ethical, legal, and practical issues. A new project out of a Harvard Medical School genetics lab is trying to make sure we're prepared to deal with the potential benefits and pitfalls arising from these issues.

Though just a handful of years have passed since the Human Genome Project's scientific milestone, technology's rapid advance has transformed the genetics landscape. While the decoding of the first human genome took 12 years and \$3 billion, today companies have opened shop offering personal genome decoding for just a fraction of the cost. Within five years, experts predict, such a service could cost as little as \$1,000 and take just days.

While knowing one's genetic make-up could reveal secrets of ancestry,

health, and other characteristics, the access to these secrets raises potentially troubling ethical and legal questions, ranging from control of that information, to health insurance coverage, to job discrimination, to issues of privacy within families whose members share the same genetic background.

That's where the Personal Genetics Education Project comes in.

The project was founded two years ago by Harvard Medical School Genetics Professor Chao-Ting Wu and Jack Bateman, a former postdoctoral fellow in Wu's lab and now assistant professor of biology at Bowdoin College. It is headed by Dana Waring, who has developed educational material about personal genetics and who presents that material to schools, colleges, private firms, and even the U.S. Senate office of Democratic Party nominee Barack Obama. Waring advised Obama's policymakers on ethical issues in their Genomics and Personalized Medicine Act of 2006.

"It's the old story of technology coming first and everyone else catching up," Waring said. "We're talking optimisti-

cally and hopefully, but there are risks, many of which are not totally clear."

Wherever she speaks, Waring said, people are quick to pick up the implications of the sudden availability of such intimate information.

She offered the example of a child who wants to be tested for an inheritable disease even though her parents don't want to find out. The test comes back positive and it turns out the disease is inherited through the mother. What does the child do? Does she tell her? Does she tell her siblings about her mother or even about herself, since telling people about herself would automatically tell them something about her mother?

New knowledge about a genetic susceptibility for ill health also has implications in areas such as health insurance and employment because an employer may not want to hire someone likely to develop an ailment that could increase the employer's health insurance costs.

Waring has developed several lessons and made them available to high school and college teachers on the project's Web site. The classes, she said, are intended to educate students about the

(See *Genes*, page 16)

Jamaican lizards' calisthenics mark territory at dawn, dusk

By Steve Bradt
 FAS Communications

What does Jack LaLanne have in common with a Jamaican lizard?

Like the ageless fitness guru, the lizards greet each new day with vigorous push-ups. That's according to a new study showing that male *Anolis* lizards engage in impressive displays of reptilian strength — push-ups, head bobs, and threatening extension of a colorful neck flap called a "dewlap" — to defend their territory at dawn and dusk.

The lizards are the first animals known to mark dawn and dusk through visual displays, rather than the much better known chirping, tweeting, and other sounding off by birds, frogs, geckos, and primates.

Terry J. Ord, a postdoctoral fellow at Harvard University's Museum of Comparative Zoology and at the University of California, Davis, describes the *Anolis* lizards' unusual morning ritual in a forthcoming issue of the journal *American Naturalist*.

"Anoles are highly visual species, so in that sense it's not surprising that they would use visual displays to mark territory," Ord says. "Still, the finding is surprising because these are the first animals known to use nonacoustic signaling at dawn and dusk."

Ord studied four species of Jamaican forest lizard: *Anolis lineatopus*, *Anolis sagrei*, *Anolis grahami*, and *Anolis opalinus*. Female anoles establish small territories allowing access to food and other resources, while males stake out larger territories allowing them access to several females. The males spend much of the day sitting on tree trunks and displaying head motions, push-ups, and dewlap extensions — all to warn other males away from their territory.

Ord carefully located and videotaped individual males at different times of day, from before dawn to dusk. In all four species, he found distinct peaks of activity at daybreak and for about two hours afterward, and again just before dark.

"These patterns have remarkable parallels with the dawn and dusk choruses reported for many acoustically communicating animals," Ord says.

Both birds and reptiles are frequently targeted by nocturnal predators, and anoles, like many species of birds, leave their daytime perches at night to find safe shelter.

"The dawn chorus may be a way of communicating having survived the night," Ord says. "If in the morning a bird doesn't hear its neighbor, or an anole doesn't see its neighbor, it may be an opportunity for the animal to expand its territory."

While ornithologists disagree on the exact reasons birds chorus at dawn and dusk — competing hypotheses propose everything from territorial defense to favorable environmental conditions to manifestations of circadian rhythms — Ord says his work suggests male anoles use their morning displays primarily to mark territory.

"All of these behaviors are displays of physical vigor," Ord says. "As in humans, if an anole can do many of these push-ups it shows that he is in prime physical condition. These displays of strength help avert actual physical confrontations between male lizards, which can be very fierce and destructive."

Ord's work may open the doors to further study by ornithologists, herpetologists, and others seeking evidence of nonacoustic dawn and dusk signaling among other species.

The research was funded by the National Geographic Society and National Science Foundation.

Staff photo Jon Chase



Ord

Cells

(Continued from page 1)

member of HSCI's Executive Committee, said Melton's findings are of a caliber that "will revolutionize what is already a revolutionary field."

Unlike the process involved in creating induced pluripotent stem cells (iPS), which have caused enormous excitement since their introduction two years ago by Japanese researcher Shinya Yamanaka, this direct reprogramming technique does not require turning adult cells into stem cells and then figuring out how to induce them to differ-

entiate into a desired cell type. Melton emphasized, however, that direct reprogramming does not in any way eliminate the need for, or value of, work with iPS cells or human embryonic stem cells. "We need to attack problems from multiple angles," said Melton, stressing that his lab is using several approaches and will continue to do so.

As is the case with all iPS work thus far, Melton's experiments involved using viruses to integrate the transcription factors into the target cells. Because of the risks that would pose to humans, the team is looking for chemicals that might effectively and,

most important, safely replace the viruses.

Joan Brugge, chair of the Department of Cell Biology at Harvard Medical School, said the new study "provides exciting new insights into yet another aspect of cell plasticity that was not appreciated previously and that offers great potential therapeutically. Direct reprogramming represents a more straightforward strategy to treat diseases involving loss of function of specific cell populations than approaches requiring an intermediate embryonic stem cell," she said.

Whitehead Institute stem cell researcher Rudolf Jaenisch, who has heard one of

Melton's presentations on the new work, said that there had previously been so much empty talk about supposedly successful direct reprogramming efforts that if anyone other than Doug Melton were publishing this report Jaenisch would view it quite skeptically.

In fact, even Melton was "more than a little surprised to find that we could use a combination of just three transcription factors to reprogram one cell type into another." Referring to the work of first author Joe Zhou, Melton said his experiment "combined a systematic approach to identifying the relevant transcription factors, hard work, and a bit of luck."

Luck, serendipity, is virtually always a part of the process of scientific discovery. But the choice of transcription factors Ngn3, Pdx1, and MafA could hardly be said to have resulted from luck. Instead, it was the result of two years of repetitive lab work that began, Melton said, "by asking what genes you have to have turned on in the cell for it to become a beta cell."

"If you want to do reprogramming, it doesn't take great insight to figure out that the key genes are transcription factors — the proteins that bind DNA and tell cells which genes to turn on and which to turn off," said Melton, the co-chairman of Harvard's new Department of Stem Cell and Regenerative Biology.

Melton likened the multistep process a stem cell goes through during differentiation into a specific adult cell type to passing through a series of doors. "There are locks on all the doors," he said, "and the locks are transcription factors. We asked which ones are present in the beta cell, and that gave us 1,100 transcription factors to choose from. Eventually we learned that of the 1,100, only about 200 are actually expressed in cells that are involved in forming the pancreas."

"Next," Melton continued, "we decided that of the 200, we only cared about the ones that are expressed in the key part of the pancreas where the beta cells are — and that got us down to about 28. Then we did some lineage studies," he explained, "and we got it down to nine. Joe said, 'My best guess is it's these nine.' And he was right. It was a messy experiment, mixing all nine and injecting them into the pancreas. Then we found out that it got better and better as we removed one gene at a time from the nine, and eventually we found that it actually works best with three transcription factors — that six of them aren't that important. And that's the fun of science!" Melton said.

But back to serendipity for a moment

Suppose the experiment hadn't worked with those nine transcription factors; what then? "If it hadn't worked with those nine, we'd probably have dropped the experiment and gone onto something else; there would have been just too many possible combinations of transcription factors to wade through," Melton said.

"We're intrigued by the possibility that this approach, which has worked for pancreatic insulin-producing cells, could be more widely applied to many kinds of cells, especially those that are lost in disease or following injury," Melton said. "And at the same time, we are exploring the possibility of using this general approach in a clinical context to make new beta cells for patients."

The work was supported by the Harvard Stem Cell Institute and Howard Hughes Medical Institute.

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Staff photo Justin Ide/Harvard News Office

Doug Melton (above) and colleagues say that they have been able to use proteins to change one cell type directly into another. The advance provides a potential way forward in creating a supply of insulin-producing cells that genetically match a diabetic's other body cells and that can be used in therapy.

Driven to succeed

Fatherhood focuses Melton's powerful intellect on cure for diabetes

By Alvin Powell
Harvard News Office

When the baby vomited again, Gail Melton knew something was seriously wrong with her second child, a son she and her husband, Doug Melton, had named Sam.

She phoned Doug and took Sam to Harvard Health Services in Holyoke Center. Doughurried to the clinic from his Fairchild Biochemistry Building lab on Divinity Avenue. Together Gail and Doug rushed their infant son to Children's Hospital Boston.

The specialists at Children's at first were puzzled by Sam's condition and hovered around the bed where he lay semi-conscious. For Doug and Gail, the waiting was torturous. Their anxiety only increased when the doctors asked them to leave the room. Then a simple urine analysis showed that Sam's urine contained high levels of sugar. Though the condition is rare in 6-month-olds, Sam Melton had diabetes.

That night was one of the worst of Doug Melton's life, but it may ultimately prove to have been a turning point for diabetics around the world. Sam's illness brought a powerful new player into the decades-long fight against the disease, one who has already made important discoveries on the

development of beta cells, the cellular insulin factories in the pancreas.

Since his now-16-year-old son's diagnosis, Melton has become one of the top scientists in the field of stem cell and regenerative biology. Together with David Scadden, who heads the Center for Regenerative Medicine at Massachusetts General Hospital, Melton leads one of the world's premier centers for stem cell science, the Harvard Stem Cell Institute.

But at the time of Sam's illness, nobody knew what the future held. Melton was not an expert in diabetes. He had come to Harvard as an assistant professor in 1981, was named a full professor in 1988, and was in the midst of a promising career: His research through the 1980s had transformed the field of developmental biology by bringing the powerful tools of molecular biology to bear. But a personal storm raged in him after Sam's diagnosis, sparked by his child's suffering and fed by a father's feeling of helplessness.

"I did what any parent does," Melton said of those days. "I asked, 'What am I going to do about this?'"

When the storm cleared, Melton saw a new way ahead. He could not help Sam the night his bed was surrounded by doctors. But he was determined to help him in the future: He would find a cure for diabetes.

To read Doug Melton's full profile, visit the HarvardScience Web site at <http://harvard-science.harvard.edu/> and click on the 'A Life in Science' link.

Lines to be part of new HSCI iPS collection available to researchers



Staff file photo Justin Ide/Harvard News Office
In a 2006 press conference, George Daley announced that he and other Harvard Stem Cell Institute researchers were embarking on a quest to develop patient and disease-specific stem cell lines. HSCI co-director Doug Melton is in the background.

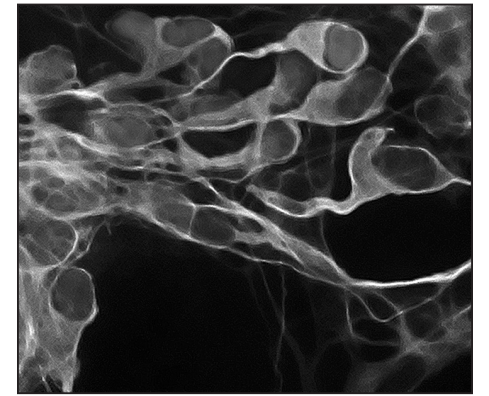


Image courtesy of John Dimos/Eggan Lab
These patient-specific motor neurons were created in the Eggan laboratory.

Neurons created from skin cells of elderly patients with ALS

By **B.D. Colen**
Harvard News Office

Less than 27 months after announcing that he had institutional permission to attempt the creation of patient- and disease-specific stem cell lines, Harvard Stem Cell Institute (HSCI) principal faculty member Kevin Eggan proclaimed the effort a success — though politically imposed restrictions and scientific advances prompted him to use a different technique than originally planned.

The breakthrough by Eggan and colleagues at Harvard and Columbia University marks the first time scientists are known to have produced human stem cell lines coaxed from the cells of adult patients suffering from a genetically based disease. The affected patients had amyotrophic lateral sclerosis (ALS), commonly known as Lou Gehrig's disease.

The work, published in the July 31 online edition of the journal *Science*, provides "proof of concept" for the belief of scientists and fervent hope of patients that in the not-too-distant future it may be possible to treat patients suffering from chronic diseases with stem cell-based treatments created from their own adult cells. However, Eggan believes that the first therapeutic application of these newly derived stem cells will be to use them to study the root cause of this disease and to screen for drugs that may benefit patients.

The co-lead authors of the Eggan paper are John Dimos, a postdoctoral fellow in Eggan's lab, and Kit Rodolfa, a graduate student in the lab. Dimos and Rodolfa were responsible for the generation of the stem cells as well as their characterization. The Columbia team, which coordinated patient participation and skin sample collection, was led by Christopher Henderson, co-director of that university's Motor Neuron Center and professor of pathology and cell biology in neurology and neuroscience.

"This finding by Kevin Eggan and his colleagues marks an important step in fulfilling the promise of regenerative medicine," Harvard Provost and neurobiologist Steven E. Hyman said. "It is yet more confirmation that the substantial risks that were taken in forming the Harvard Stem Cell Institute will ultimately pay off for both science and patients," he said.

In the *Science* paper, the researchers, who were supported by the New York Stem Cell Foundation and Project ALS, describe turning skin cells collected from elderly patients with ALS into induced pluripotent stem (iPS) cells, and then directing their differentiation

(See **ALS**, next page)

Twenty disease-specific stem cell lines created

By **B.D. Colen**
Harvard News Office

Harvard Stem Cell Institute (HSCI) researcher George Q. Daley, associate director of the Stem Cell Program at Children's Hospital Boston, has with HSCI colleagues Chad Cowan and Konrad Hochedlinger of Massachusetts General Hospital (MGH) produced a robust new collection of disease-specific stem cell lines, all of which were developed using the new induced pluripotent stem cell (iPS) technique. The work is described in a paper published in the Aug. 7 online edition of the journal *Cell*.

The new iPS lines were developed from the cells of patients ranging in age from 1 month to 57 years old who suffered from a variety of conditions. The iPS lines will be deposited in a new HSCI iPS Core laboratory being established at MGH, HSCI co-director Doug Melton announced. The operations of the iPS Core will be overseen by a faculty committee, which Daley will chair.

The cell lines the researchers produced carry the genes or genetic components for diseases and disorders, including Parkinson's disease, type 1 diabetes, Huntington's disease, Down syndrome, "bubble boy" disease (a form of combined immunodeficiency), Lesch-Nyhan syndrome, Gaucher's disease, and two forms of muscular dystrophy, among others.

"We wanted to produce a large number of disease models for ourselves, our collaborators, and the stem cell research community to accelerate research," Daley said. "The original embryonic stem cell lines are generic, and allow you to ask only basic questions. But these new lines are valuable

tools for attacking the root causes of disease. Our work is just the beginning for studying thousands of diseases in a petri dish," he said.

Melton, who is also co-chairman of Harvard's new interfaculty Department of Stem Cell and Regenerative Biology, said that the HSCI iPS Core will serve as a repository for iPS cells produced by HSCI scientists. The Core will also function as a technical laboratory to produce these disease-specific lines for use by scientists around the world, Melton said, adding that the cells in the iPS Core would be made available to scientists worldwide at a nominal fee to cover costs.

"The suite of iPS cell lines reported by the Daley group marks an important achievement and a very significant advance for patients suffering from degenerative diseases," Melton said. "These disease-specific iPS cells are invaluable tools that will allow researchers to watch the development of diseases in petri dishes, outside of the patients. And we have good reason to believe that this will make it possible to find new treatments, and eventually drugs, to slow or even stop the course of a number of diseases.

"In years ahead," Melton said, "this report will be seen as opening the door to a new approach to develop therapies."

"One of our goals in creating the NIH Director's Pioneer and New Innovator Award programs was to enable exceptionally creative scientists to move quickly in promising new directions, thereby speeding the intellectual and technical breakthroughs needed to address major challenges in biomedical or behavioral research," said National Institutes of Health (NIH) Director Elias A. Zerhouni. "This is

certainly the case for Drs. Daley and Hochedlinger, who deployed their Director's Award resources to advance our ability to use induced pluripotent stem cells for disease-specific studies and drug development."

Daley and his colleagues, led by first-author and Children's researcher In Hyun Park, intentionally produced some stem cell lines for highly heritable, single-gene diseases, such as Gaucher's; complex genetic syndromes, such as Down; and then complex diseases, such as Parkinson's, that involve genetic, cellular, and perhaps environmental components.

"The cell lines available from the iPS Core will allow stem cell researchers around the world to explore possible gene therapies for some conditions, and will aid in the development of drugs for others," Daley said.

While Daley, immediate past-president of the International Society for Stem Cell Research, is enthusiastic about the promise of reprogramming studies, he is far from ready to abandon experiments with embryonic stem cells (ESC). Daley believes that reprogramming and ESC research must advance in tandem to bring cell therapy to the clinic as quickly as possible.

The study was supported by grants from the NIH, an NIH Director's Pioneer Award of the NIH Roadmap for Medical Research, an NIH New Innovator Award, the Burroughs Wellcome Fund, the Leukemia and Lymphoma Society, the Harvard Stem Cell Institute, Children's Hospital Boston Stem Cell Program, the Stowers Medical Institute, and the Howard Hughes Medical Institute.

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ALS

(Continued from previous page)

into the type of motor neurons (nerve cells) destroyed by the disease.

"No one has ever managed to isolate these neurons from a patient and grow them in a dish," Eggan said, explaining the significance of the work. "Now we can make limitless supplies of the cells that die in this awful disease. This [ability] will allow us to study these neurons — and ALS — in a lab dish, and figure out what's happening in the disease process," added the assistant professor in Harvard's new Department of Stem Cell and Regenerative Biology, and Stowers Medical Institute investigator. Eggan also serves as scientific director of the New York Stem Cell Foundation.

Fred H. Gage, the Vi and John Adler Chair for Research on Age-Related Neurodegenerative Diseases in the Salk Institute's Laboratory of Genetics, explained the significance of the new findings by saying that "following the demonstration of iPS by [Shinya] Yamanaka and [James] Thompson in human cells, a next major hurdle has been to generate iPS cells from patients with an identified disease and, in particular, determine if the age of the patient would be a limitation to this approach. In one set of experiments, Eggan, Dimos, and Rodolfa have proven that, at least for ALS, neither age nor progression of disease should hinder the generation of human iPS cells. Other examples of human iPS cells are in progress for other diseases, and this publication is an encouragement for the field, in general."

When Eggan and colleagues first applied to Harvard and Columbia's institutional review boards (IRBs) for permission to attempt their experiments, they were planning to reach their goal through somatic cell nuclear transfer (SCNT), which is generally referred to as "therapeutic cloning." Going the SCNT route requires obtaining donated ova, removing all the genetic material from the ova and replacing it with the genetic material from the skin cell of a patient whose disease researchers want to study. Stem cells would then be extracted from the fertilized ova after several cell divisions, and the idea would be to induce those stem cells to differentiate into the cell type to be studied.

"Over the last two years we've done everything we could within the law in Massachusetts to recruit women to donate ova. However, we were never able to recruit enough donors because we were legally prevented from providing the same sort of compensation that these women would receive for donating their ova for *in vitro* fertilization," Eggan said.

"We did make some interesting progress with initial experiments," he continued, "but it's not yet come to fruition. So when Shinya Yamanaka's first creation of iPS cells came along, that opened up a new route for us and we decided to capitalize on that." However, Eggan added that he will continue both his SCNT and iPS work, and said that he believes that "it's essential to note that we couldn't possibly be where we are now without first doing extensive work with human embryonic stem cells (hESC). Further, it will be essential to continue to do work with embryonic stem cells as they remain the stem cell gold standard."

The Eggan team used the same four genes to produce iPS cells that Yamanaka, of Kyoto University, used to develop his reprogramming method in mice two years ago. However, because one of the four genes is a cancer-promoting gene, this method of reprogramming will for the time being prevent these cells from being transplanted into patients.

In order to perfect these cells for transplantation, scientists will have to come up with a combination of genes or chemicals to induce similar reprogramming events in the skin cells without the use of potentially tumor-causing agents.

The skin cells used in the experiment came from two Columbia patients, 82- and 89-year-old sisters. Both patients had a mild form of ALS, but one that is caused by a single genetic mutation. The genetic simplicity of this form of ALS — and the fact that it is always inherited — should assure that the neurons produced from these stem cell lines will eventually succumb to the disease.

At this point, however, the Eggan group has not yet seen the disease in the dish. "The next step," said Eggan, "is to produce neurons from iPS cells developed from a normal, healthy person, and try to determine what's different about the neurons we have made from the ALS patients."

Staff file photo Rose Lincoln/Harvard News Office



Susan Carey's research has been centered on child development, ontogeny, and human cognition.

Susan Carey awarded Rumelhart Prize

By Amy Lavoie

FAS Communications

Susan Carey, a Harvard psychologist whose work has explored fundamental issues surrounding the nature of the human mind, has been awarded the 2009 David E. Rumelhart Prize, given annually since 2001 for significant contributions to the theoretical foundation of human cognition.

Carey, the Henry A. Morss Jr. and Elisabeth W. Morss Professor of Psychology in the Faculty of Arts and Sciences, is the first woman to receive the prize. Additionally, Carey is the first recipient of the prize for theoretical contributions to the study of human development. Previously, the award was given only for work involved with computational modeling.

The award, which comes with a \$100,000 monetary prize, was announced July 24 at the annual meeting of the Cognitive Science Society in Washington, D.C.

"Susan Carey was selected for her career of field-changing theoretical and empirical work on cognitive development," says Linda Smith, chair of the Rumelhart Prize selection committee and professor of psychology at Indiana University. "She was cited specifically

for her contributions to understanding conceptual change and the development of number concepts. These contributions have had extraordinary reach in cognitive science, spurring advances in cognitive neuroscience, in evolutionary psychology, and in the comparative study of human and non-human primates."

Carey's research has been centered on child development, ontogeny, and the history and evolution of human cognition. She is the author of "Conceptual Change in Childhood" (MIT Press, 1985) and co-author of "Constraints on Conceptual Development: A Case Study of the Acquisition of Folkbiological and Folksociological Knowledge in Madagascar" (Monographs of the Society for Research in Child Development, 2004). Her forthcoming book, "The Origins of Concepts," will be published in the fall by Oxford University Press.

"I am extremely honored to have received the Rumelhart Prize, and to be among such an impressive and distinguished group of recipients of this award," says Carey. "It couldn't be sweeter to be recognized by my colleagues in this way."

Carey graduated with a B.A. from Radcliffe in 1964, and she received a Fulbright Fellowship to London Uni-

versity in 1965. She earned her Ph.D. from Harvard in 1971. Carey is a member of the American Philosophical Society, the National Academy of Sciences, the American Academy of Arts and Sciences, the National Academy of Education, and the British Academy. She has been a member of the Harvard faculty since 2001, and previously taught at the Massachusetts Institute of Technology and at New York University.

The David E. Rumelhart Prize was established by the Glushko-Samuelson Foundation to honor David Rumelhart, who made contributions to the founding of cognitive science and to the formal analysis of human cognition within the frameworks of mathematical psychology, artificial intelligence, and parallel distributed processing. Rumelhart was a professor at Stanford University until 1998, when he became disabled by Pick's disease, a progressive neurodegenerative illness.

Robert Glushko, president of the Glushko-Samuelson Foundation, received his Ph.D. from the University of California, San Diego, under the direction of Rumelhart. Glushko founded or co-founded four businesses that made use of cognitive science insights for business-to-business transactions.

Genes

(Continued from page 13)

science surrounding personal genetics and to foster discussions about its potential benefits — such as improved diagnosis and treatment, early detection of disease, and more effective medicines — as well as its potential pitfalls.

Today's high school and college students are important audiences, said Wu and Waring, because the personal genetics revolution will be maturing as they do, and as they take the reins of society, they'll be the ones making the ethical, moral, and legal decisions about the technology's use.

"It's in their hands to guide this world," Wu said. "We're not really telling them what to think, just posing these questions."

Wu said the project has its roots in conversations she's had over the years with other geneticists, including her husband, Harvard Genetics Professor George Church, who is running the Personal Genome Project, an academic ef-

fort to decode the genomes of as many as 100,000 people.

Wu and Church traveled to meet volunteers in that project and Wu said there was universal curiosity about the work. But the curiosity and enthusiasm

For additional information,

www.pged.org

was almost always tempered by reservations and concern about the use of the information to be derived.

Though companies already exist that will decode a person's genome and compare it with known markers for genetic diseases and other things, Wu and Waring expect the costs to drop rapidly and the quality of the scans to increase dramatically in the next few years. Though the Personal Genetics Education Project has been up and running for two years, Wu and Waring said they feel like they're behind, trying to catch up. They already have more requests for

speaking engagements than they can fulfill and are talking about seeking new sources of funding and hiring more staff.

"It's like many other revolutions. [How you handle it depends on] how educated you are and how prepared you are," Wu said. "It can be fantastic if we're prepared for it."

Among their plans is outreach to physicians, a substantial number of whom received their M.D.s before the personal genetics revolution hit. Wu said they'd like to put together an easy-to-read booklet with the basics of what's going on, so doctors understand what's happening when a patient walks in with a genome scan and asks for advice. As prices come down, Wu said, it may become standard medical practice for patients to get their genome scanned and kept as part of their medical records.

"We feel it's important to engage people before it's pounding on your doorstep," Waring said.

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Broad awarded \$86M NIH grant to develop chemical probes for disease

By Nicole Davis
Broad Institute Communications

Researchers at the Broad Institute of Harvard and MIT have been chosen to receive a six-year, \$86 million grant from the National Institutes of Health (NIH) to identify and develop molecular tools known as “small molecules,” which can probe proteins, signaling pathways, and cellular processes that are crucial to human health and disease.

The Broad Institute is among nine institutions to receive funding under the Mole-

cular Libraries and Imaging Initiative, one of the NIH Roadmap Initiatives for Medical Research. These institutions together comprise a collaborative research network that will conduct high-throughput biological studies and chemical optimization of a diverse collection of small molecules, and openly share their data with the scientific community, yielding knowledge that may bolster the search for novel disease therapies.

“Small-molecule probe and drug discovery enables basic research to impact on human health, and the advances of chemical

biology are transforming this discovery process,” said principal investigator Stuart Schreiber, director of the Chemical Biology Program at the Broad Institute. “Integrating chemical biology with genome biology, which is a founding principle of the Broad Institute, accelerates the march to new medicines in a magical way.”

The molecules of life come in a variety of shapes and sizes. At one end of the spectrum are large macromolecules such as DNA, RNA, and proteins. At the other end are a plethora of chemical compounds that exert effects on human biology by virtue of their

relatively small size and their ability to interact directly with biological macromolecules. These so-called small molecules are readily transported through the body and include endogenous substances, such as hormones and neurotransmitters, as well as medicines like aspirin and penicillin.

The six-year NIH grant designates the Broad Institute as one of four Comprehensive Screening Centers in the Molecular Libraries Probe Production Centers Network (MLPCN), where vast collections, or “libraries,” of small molecules will be screened

(See **Grant**, next page)

Staff photos Justin Ide/Harvard News Office



At a Sept. 4 ceremony at the Broad Institute, Eli Broad (far left) announces the Broads' \$400M gift. Seated on the stage are Eric Lander (from left), Edythe Broad, Massachusetts Gov. Deval Patrick, David Baltimore, MIT President Susan Hockfield, and Harvard President Drew Faust.

Eli and Edythe Broad make unprecedented gift

Recent \$400M endowment gift from Broads brings total commitment to \$600 million



Eli Broad (left) chats with scientist David Baltimore at the event celebrating the Broads' gift.

Los Angeles-based philanthropists Eli and Edythe Broad on Sept. 4 declared the Broad Institute of Harvard and MIT an unprecedented success as an experiment in science and philanthropy and announced that they have increased their total gift to the Broad by \$400 million to \$600 million. The \$400 million will be an endowment to convert the institute — which was originally launched as a 10-year “venture” experiment — into a permanent biomedical research organization aimed at transforming medicine.

The total \$600 million commitment is the largest to support biomedical research activity at universities anywhere in the world. The gift also reflects a new model for venture philanthropy, for collaboration among universities, and for doing biomedical science.

The Broad Institute was launched in 2004 — just after the completion of the Human Genome Project (HGP) — with the mission of fulfilling the promise of genomics for medicine and the goal of sustaining the collaborative spirit that propelled the HGP. The institute aimed to bring scientists together to tackle major interdisciplinary problems related to cancer, metabolic diseases, infectious diseases, psychiatric diseases, and other conditions.

Rather than calling a single university home, the Broad Institute was launched as a new kind of research organization spanning the entire Massachusetts Institute of Technology and Harvard communities, including the 17 Harvard-affiliated teaching hospitals. As a result, scientists from the various institutions — and from diverse disciplines, including biology, medicine, chemistry, and computer science — created collaborative teams to tackle problems beyond what any of them could do alone. The Broad Institute was also committed to scientific openness, including rapid and free sharing of data and research tools. Today, more than 1,200 scientists and professional staff from across Harvard and MIT are affiliated with the institute.

Rather than initially endow the new organization, Eli and Edythe Broad decided to take a “venture” approach in 2004. They made a commitment of \$100 million to be spent over 10 years — invest-

ing in an “experiment” to test whether the new model would dramatically accelerate scientific progress. In late 2005, they doubled their gift to \$200 million over 10 years in recognition of the Broad Institute's early progress.

Acknowledgment of the power of this model of science has also come from the Stanley Medical Research Institute, which gave \$100 million in 2007 to create the Stanley Center for Psychiatric Research at the Broad Institute. The Starr Foundation, the Prostate Cancer Foundation, and the Juvenile Diabetes Research Foundation, among others, have also provided significant funds to support the institute's collaborative work and groundbreaking advances in a variety of human diseases.

Now, after just four years, Harvard, MIT, and the Broads have declared the experiment a rousing success that should be sustained as a permanent institution. As a result of the Broads' endowment, the Broad Institute will transition to a permanent nonprofit organization, with both universities continuing to help govern it. The mission and collaborative research by scientists from across Harvard and MIT will continue to be at the heart of the Broad Institute.

“Of all of our philanthropy, the Broad Institute has been the investment that has yielded the greatest returns,” said Eli Broad, founder of The Eli and Edythe Broad Foundation. “This truly is a new way of doing science, and the institute's unique collaborative model for scientific research has resulted in remarkable accomplishments in a very short period of time. Although this is a large gift — the

(See **Broad**, next page)

Broad

(Continued from previous page)

largest we have ever made — it is only a fraction of what will be needed to unlock the enormous promise of biomedical research at MIT and Harvard. We hope to see this endowment grow to \$1 billion through investment and additional gifts, and we are counting on others to step forward as partners in the next phase of this grand experiment. We are convinced that the genomics and biomedical work being conducted here at the world's leading genomics center by the world's best and brightest scientists will ultimately lead to the cure and even the prevention of diseases.”

“Eli and Edythe Broad are true visionaries,” said Eric Lander, founding director of the Broad Institute. “They made an enormous bet in 2004. Their bet has paid off more handsomely than any of us imagined. It has unleashed the creative potential of a remarkable community of scientists. And, it has defined a new model for how scientists and institutions can work together.”

“There is no place in the world with as great a concentration of life sciences talent, resources, and vision as Massachusetts,” said Massachusetts Gov. Deval Patrick. “With this significant endowment of the Broad Institute by Eli and Edythe Broad — and the collaboration and support of the industry, academia, business, and government through the Massachusetts Life Sciences Initiative — we are on our way to helping find new cures for diseases, creating new jobs, and positioning ourselves for long-term economic growth.”

In the Broad Institute's short history, its researchers have already made major contributions to biomedicine. The progress made in the past four years includes the following:

- Cataloging the genetic variation among individuals and populations, which is the critical groundwork for identifying the genetic contribution to common human diseases;

- Identifying scores of new genetic risk factors for diseases such as type 2 diabetes, Crohn's disease, schizophrenia, bipolar disorder, autism, cardiovascular disease, and a variety of cancers;

- Classifying human cancers by their genomic alterations, rather than by their location in the body;

- Combining the power of genomics and the power of chemical biology to uncover potential new therapeutics for cancer, malaria, and other diseases, as well as novel uses for existing drugs, including a well-known immunosuppressive drug that may treat leukemia;

- Identifying the genomic regulatory controls of stem cell differentiation — research that will accelerate progress in regenerative medicine;

- Harnessing the power of proteomics and genomics to understand how cells generate and use energy and how the process runs amok in a host of diseases;

- Applying genomic tools to key human pathogens, such as malaria and tuberculosis, aimed at transforming how these killers are tracked, diagnosed, and treated;

- Leading efforts, such as The Cancer Genome Atlas, to comprehensively identify the molecular abnormalities that underlie all human cancers; and

- Sequencing the genomes of more than 20 mammals, providing stunning depth to our knowledge of evolution and unlocking the mysteries of the human genome.

“To fully realize the benefits of the genomic sciences, scientific research must transcend the boundaries of disciplines, departments, and even institutions,” said Harvard University President Drew Faust. “Through their continued philanthropy, the Broads have made that transcendence possible. I am grateful for their support of this important work and look forward to continuing our partnership with the Broad Institute.”

“Cambridge and Boston are world-renowned for their creative, scientific minds and unrivaled biomedical community, and the Broad Institute is uniquely positioned to realize the full potential of these intellectual resources,” said Susan Hockfield, president of MIT. “We are profoundly grateful to Eli and Edythe Broad for their generosity and vision, and look forward to continuing our many collaborative research efforts through the Broad Institute and defining the future of the field.”

HKS Asia Programs joins the Ash Institute

Kennedy School research center merger will strengthen both groups through collaboration

The Ash Institute for Democratic Governance and Innovation and Asia Programs at Harvard Kennedy School (HKS) will announce a new partnership. Under the leadership of new institute director Tony Saich, Asia Programs became part of the Ash Institute on July 1. The new collaboration promises to leverage and expand the collective strength of both organizations.

Saich brings a wealth of expe-

For additional information,
www.ashinstitute.harvard.edu

rience to his new position leading the institute. As the Daewoo Professor of International Affairs, Saich was most recently the director of Harvard University's Asia Center and the faculty chair of both the China Public Policy Program and Asia Programs. Previously, he helped establish China's innovations awards program in Beijing as the China Office Representative for the Ford Foundation. Saich has an extensive background advising government, nonprofit, and private institutions on governance issues in China and other Asian countries. In recognition of his contributions to the public administration field, Saich was named a Chang Jiang Scholar in 2006 by China's Ministry of Education and the Li Ka Shing Foundation.

Not only is Saich a notable expert in public administration, he also is a renowned authority on China and international politics, with prolific scholarly work on the interplay between the Chinese state and society on the delivery of goods and services. His previous work developing executive education training pro-

grams for government officials in Beijing and elsewhere will prove particularly beneficial as the institute augments its current portfolio of capacity-building classes for government officials. Moreover, Saich's strong focus on governance and democracy issues promises to inform and enhance the Ash Institute's Innovations in American Government Awards and international programs, along with encouraging thoughtful scholarship in a range of new areas.

In addition to the change in leadership, the institute's new relationship with Asia Programs affords multiple areas for synergy and collaboration. The institute hopes to broaden its research fellows program by welcoming scholars with increasingly diverse areas of study focused on governance and innovation. The collaboration opens the gateways for many more HKS faculty members to engage in and further develop the institute's research priorities. Most importantly, the relationship allows even more students to benefit from the institute's range of fellowships focused on both American and international governance issues and the synergies between them.

“We are concluding a highly productive seven-year relationship with the Mossavar-Rahmani Center for Business and Government and look forward to an equally successful partnership with the Ash Institute,” said Saich. “The opportunities for sharing scholarly research and best practices are numerous. Together, we will advance both organizations' commitment to good governance and innovation within a host of new geographic arenas and governments.”

Grant

(Continued from previous page)

using high-throughput methods to identify compounds with interesting biological functions.

The NIH award reflects a new chapter in an already rich history of chemical biology and small-molecule screening at the Broad Institute, a chapter that began at the Harvard Institute of Chemistry and Chemical Biology (ICCB) in 1997. The ICCB, which became a founding asset of the Broad Institute when it was launched in 2003, created the first large-scale, public, small-molecule screening center and served as a model for future initiatives. “At the Broad, we are truly fortunate to have a group of individuals with world-class expertise in nearly all facets of professional, high-throughput, small-molecule science,” said Schreiber. “Indeed, we couldn't undertake this work without them.”

The development of small-molecule probes is an intensive effort that involves more than high-throughput screening of molecular libraries. Before screens can be carried out, months of meticulous work are needed to lay the necessary scientific groundwork. Will chemicals be tested in test tubes or cells? How will the biological effects of small molecules be measured? At the Broad Institute, many of these questions can be addressed by leveraging the power of large-scale approaches such as global gene expression-based screening and high-content cellular imaging.

Once the preliminary work is complete and a screen begins, Broad researchers ensure that all of the data are captured digitally and deposited in public databases. The ICCB and the Broad Institute pioneered this type of public data sharing through their creation of ChemBank, and more recently

researchers at the Broad have been contributing to a second public database, PubChem, which is associated with the Molecular Libraries and Imaging Initiative. Follow-up work, including further biological testing and small-molecule optimization, is then required to develop promising small molecules into bona fide molecular probes of human biology. This requires modern organic synthesis, a scientific endeavor that is an underpinning of the Broad Institute.

“The Molecular Libraries Program has cultivated an extremely high-quality collection of small molecules that are wonderfully complementary to the unique collection established at the Broad Institute,” said Schreiber. “We are eager to begin exploring the biomedical potential of these chemical compounds, in addition to our own, and to share our results with the global scientific community.”

IN BRIEF

HMS to host quantitative genomics conference, more

The second annual Conference in Quantitative Genomics will be held Sept. 23-25 at the Harvard School of Public Health (HSPH). Hosted by the Program in Quantitative Genomics at the School, “Emerging Quantitative Issues in Parallel Sequencing” is supported with a grant from the National Cancer Institute and the National Heart, Lung and Blood Institute.

The conference will be held in the Joseph B. Martin Conference Center at Harvard Medical School (HMS) and is co-sponsored by HSPH, HMS, and Dana-Farber Cancer Institute, as well as corporate sponsors.

The focus of the conference will be to examine the interplay between emerging sequencing technologies, basic and population sciences, and data analysis methods. Geneticists, computational biologists, and statisticians will participate in discussions regarding applications of massive parallel sequencing.

All registrants are encouraged to participate in submitting abstracts for a poster session. The top abstracts will be selected for short talks to be presented at the conference or for abstract awards for travel assistance. To register or submit an abstract, visit www.hsph.harvard.edu/research/pqg-annual-conference/index.html.

Tribe talk hosted by Harvard Club marks Constitution Day

Laurence Tribe, the Carl M. Loeb University Professor of Law, will present a talk on the U.S. Constitution at the Harvard Club of Washington, D.C. on Wednesday (Sept. 17) at 7 p.m. at the National Archives Building in Washington, D.C., where the original document is housed. The Harvard Club of Washington is hosting the event. The lecture commemorates Constitution Day, the annual celebration of the signing of the U.S. Constitution on Sept. 17, 1787, by the 55 delegates to the Constitutional Convention in Philadelphia. In accordance with a bill signed into law by President Bush on Dec. 8, 2004 (public law 108-447), all educational institutions receiving federal funding are required to hold an educational program pertaining to the U.S. Constitution.

The U.S. Constitution is the central instrument of government and the “supreme law of the land.” It is the oldest written constitution in the world still in force. It outlines the structure and powers of the three branches of the federal government (legislative, executive, judicial) and the division of power between the federal and state governments. The Constitution took effect in 1789 and has served as a model for the constitutions of numerous other nations.

— Compiled by Andrew Brooks

Gates' new documentary series receives \$12M from CPB, PBS



Staff file photo Stephanie Mitchell/Harvard News Office

Henry Louis Gates Jr. says his new films 'will give viewers, especially young people, a connection to their heritage and reinforce for all of us that a connection to the past can be a positive resource for the future.'

The Corporation for Public Broadcasting (CPB) and the Public Broadcasting Service (PBS) recently announced funding in the amount of \$12 million for three, new public television documentary series in which Henry Louis "Skip" Gates Jr. will explore the meaning of race, culture, and identity in America. Gates is the Alphonse Fletcher University Professor at Harvard University, as well as director of the W.E.B. Du Bois Institute for African and African American Research. His recent PBS series include "African American Lives" and "African American Lives 2," "Oprah's Roots: An African American Lives Special," "America Beyond the Color Line," and "Wonders of the African World."

Hosted and co-produced by Gates, the forthcoming projects (which are expected to premiere in 2010, 2011, and 2012, respectively) will include "The Faces of America," "Searching for Our Roots: The History of the African American People," and "African American Lives 3: Reclaiming Our Past." Each will be produced by WNET in New York, Kunhardt Productions, and Inkwell Films.

In "The Faces of America," Gates will again put to powerful effect the latest DNA technology and genealogy, this time in a four-part examination of well-known Americans of all races and the often-surprising stories of their ancestors. In "Searching for Our Roots: The History of the African American Peo-

ple," Gates will investigate the 300-year black experience in America. "Searching for Our Roots" will run eight hours total. Finally, in "African American Lives 3: Reclaiming Our Past," Gates will conclude his popular series on the genealogy of prominent, contemporary African Americans.

"These films will give viewers, especially young people, a connection to their heritage and reinforce for all of us that a connection to the past can be a positive resource for the future," said Pat Harrison, president and CEO of CPB. "That knowledge can be a source of inspiration."

"We are very pleased that Dr. Gates will continue his important work on

(See *Gates*, page 22)

Photographic Services © President and Fellows of Harvard College



Rembrandt's 'Bust of an Old Man' graces the new exhibit.

Sackler hosts 'Re-View' exhibition

Treasures from the Harvard Art Museum together for first time

Photographic Services © President and Fellows of Harvard College



Max Beckmann's fabulous 'Self-Portrait in Tuxedo' was also chosen for inclusion in 'Re-View.'



Quing Man Zhou (from left), Hong Wang, and Joe Zhou enjoy the various and varied paintings and sculptures in the exhibit.

Staff photo Stephanie Mitchell/Harvard News Office

By **Corydon Ireland**
Harvard News Office

In June, with an ambitious renovation in mind, Harvard closed the doors of 32 Quincy St., a stately fixture on campus since 1927.

But by 2013, the University's three art museums — now collectively known as the Harvard Art Museum — will take up residence there in one major facility.

The move will integrate disparate collections from the Arthur M. Sackler, Fogg, and Busch-Reisinger museums. It will also ease conservation efforts, underscore a University-wide education mission in visual culture, and improve for viewers and scholars alike the accessibility of Harvard's more than 260,000 works of art.

In the meantime, a representative fraction of the collections will be available to the University community and the wider public, said Thomas W. Lentz, the Harvard Art Museum's Elizabeth and John Moors Cabot director. "We very much wanted to counter the notion that we were going to drop off the radar screen for five years."

Ergo: "Re-View," a distillation of the University's diverse art collections that has been two years in the planning. The long-term exhibit opens this Saturday (Sept. 13) at the Sackler on Broadway, the one University art museum unaffected by a renovation Lentz called "very complex [and]

very expensive."

"Re-View" is also a kind of preview, he said. It will showcase the sort of visual and intellectual synergies that a combined collection will inspire at the new Quincy Street space.

"This exhibit represents a first step towards thinking about how the three collections can be in greater dialogue," said Lentz. "How they can begin to talk more effectively and more imaginatively with one another."

Curators from all three museums designed the first-time combinational show as a compact representation of the familiar, the pedagogically rich, and the previously unseen.

The ground-floor gallery will show European and American art since 1900. Visitors can enjoy once again the eccentric cheer of Emil Nolde's "The Mulatto" (1913) and the stylish calm of Max Beckmann's "Self-Portrait in Tuxedo" (1927).

The second-floor galleries allow a glimpse of the Sackler's treasures of Asian and Islamic art, from 5000 B.C.E. to the present.

A seated Buddha from eighth century China gazes back at you, his rounded chest ready to heave out a breath held for more than a thousand years. On a nearby slip-painted Meiping bottle, dark butterflies hover, ready to alight on a peony that flowered in the 13th century.

But the visual centerpiece of the second-floor display is a child-size horse of lead-glazed earthenware. Its erect knotted tail, arched neck, and open-mouthed whinny makes it as fierce as the real thing was in second century China.

"Standing Saddled Horse with Roman-style Bridal Ornaments" is also a good example of how "Re-View" so succinctly puts the art on display into context, making education — if not enlightenment — inevitable. Such large Arabian horses, the caption points out, were favored over native Mongolian ponies — and the Roman bridal gear was a sign of early Western influence on China via the Silk Road.

On the fourth floor, a series of galleries invites the viewer into the resonant presence of painting, sculpture, and objects from mainly Western traditions, starting with antiquity through the 19th century.

With so much art going into relatively little space — "We erred on the side of including more," said Lentz — each gallery is a puzzle palace of artful adjacencies.

Some of the juxtapositions are surprises to curator and viewer alike, said Harvard senior lecturer on history Ivan Gaskell, the Margaret S. Winthrop Curator in the Painting, Sculpture, and Decorative Arts. Others are intentional, he said.

In one gallery, Gaskell arranged a 1916 bronze model of Daniel Chester French's

(See *Exhibit*, page 22)

Nohana

(Continued from page 1)

The baby, a 15-month-old named Kazabelo, was in a small room with two beds. Light and airy, the room’s open door and windows let in a cooling breeze against the Lesotho summer heat. An old woman in a green-brimmed hat and a flower print dress sat next to a bed under the window. Kazabelo was hidden by a dark blanket that was keeping her warm and keeping the flies away. Furin raised the blanket’s folds and was immediately concerned by what she saw.

Kazabelo was emaciated, weighing less than 7 pounds and looking far too small for her age. As Furin gently lifted her, Kazabelo’s chest and abdomen heaved as she struggled for breath. Her hair was patchy, a large bald spot covered one temple. A fungus, likely Candida, had attacked her skin, creating light-colored spots on her face, nose, and body. As Furin gently unwrapped the cloth that served as a diaper she winced — Kazabelo’s rump was raw, with most of the upper layer of skin gone.

The baby’s grandmother sat silently as Furin examined Kazabelo. Furin cooed a long, soft apology as she worked: “I’m sorry, princess, I know, I know, it’s no fun to be little and sick.”

The grandmother had brought in the baby that morning, hiking four hours from Hapata, up and down the region’s rugged hills.

The hiking would have been hard, but the grandmother was used to these hills. The baby that day would have been a tragically light burden, a feather of a child holding a flicker of life and not much more. Her mother died of AIDS three months earlier and the baby’s father’s situation was unknown: dead or gone. To the grandmother had fallen the burden of caring for her daughter’s three children, including at least one perilously sick.

Kazabelo had been in the clinic a month and a half earlier and had weighed in at 13 pounds. She lost half her body weight in the intervening weeks. Furin diagnosed the baby as suffering from tuberculosis. Furin also suspected HIV, but a test had shown Kazabelo negative for the virus that took her mother’s life. Tuberculosis without HIV would be an unlikely combination in a country with the world’s third-highest HIV prevalence and in which the vast majority of TB cases are in people infected with the virus. The path of the global HIV pandemic had diverged in the developing and developed worlds, galloping ahead among the world’s poor even as antiretroviral drugs, established health-care systems, and public education campaigns have, in the world’s wealthy nations, gradually turned HIV and the AIDS it causes from a death sentence into a manageable, chronic illness.

It has been particularly ruthless in southern Africa, where the countries with the world’s highest HIV prevalence are found. In Lesotho, between one in three and one in four adults in the nation of 1.7 million are infected, and life expectancy has plummeted to 34 years. The availability of antiretroviral drugs and increasing commitments from some southern African governments have given health workers hope, but the disease has a long head start. Workers are further handicapped by the lack of facilities, electricity, and even roads in remote locations — such as the mountains that cover much of Lesotho.

The virus’ sexual transmission targets those in the prime of their lives, gutting societies of people in their most productive years, taking not only mothers and fathers, but also the aunts, uncles, teachers, and other professionals who might step in to help the children left behind.

The result is a society increasingly made up of the young and the old, like Kazabelo and her grandmother — one mourning the loss of the mother who should be protecting and nurturing, and the other suffering the tragedy of having lived long enough to bury her child.

Left behind by the youthful dead, grandparents across the region again take up the burden of parenthood at a time in their lives when they should be helpers, stepping back and enjoying the little ones. Instead, their strength failing, they take on parenthood again, only this time in the face of a terrible disease.

But at least this time there was a clinic to come to.

Partners In Health arrived in Lesotho in 2006 in the person of Furin, an instructor in medicine at Harvard Medical School, an infectious disease specialist at Harvard-affiliated Brigham and Women’s Hospital, and a longtime doctor with Partners In Health. Furin, who would become Partners In Health’s country director for Lesotho, set up a national headquarters in Lesotho’s capital of Maseru and then turned her attention to the mountainous area of Nohana, where the clinic perches.

Lesotho, through the vagaries of colonial history, is a small highland nation completely enclosed in South Africa. Peopled by the Basotho, much of the population lives on the lowland plateau — still 3,000 feet high — that makes up a third of the country.



Kazabelo’s grandmother (above left), who carried the baby four hours to the clinic, watches Furin and K.J. Seung work on the child. Below is the clinic’s food distribution shed.



Staff photos Justin Ide/Harvard News Office

Nohana is just one of many communities, often inaccessible by road, that dot the mountains. Furin quickly realized that air travel — by the planes and pilots of the nonprofit Mission Aviation Fellowship — would be the only way to effectively maintain supplies, communication, and emergency transport at the remote sites. Within two years, Nohana had grown from four buildings to seven, with a new clinic building ready to open within days of Kazabelo’s arrival. Nohana had been joined by four other sites in the mountains, and Furin hoped to have a total of 10 clinics open by year’s end. Countrywide, the organization had seven doctors, almost one-tenth of the total in the entire nation.

The changes over the past two years at Nohana were apparent that day. Not only were there more supplies and personnel, there were more patients as well. The clinic had seen

60 patients a day before Furin’s arrival, when it was staffed by a single nurse paid by the Ministry of Health. But after Partners In Health’s arrival, news spread that a doctor was always present and had the medicine to help. Patients came flooding in, crowding the clinic’s tiny examining rooms.

“They were just dying at home before. Now they know they can get care,” Furin said.

Furin’s work and that of other Harvard-affiliated faculty members working with her in Lesotho is an example of an enormous and diverse body of global health research, education, and training across Harvard. Researchers toil away to understand everything from the genetic code of the malaria parasite to the impact of air quality on human health, instructors impart the latest in medical knowledge to top students, and colleagues at Harvard’s many affiliated institutions not only teach

and conduct research of their own, they also put that knowledge into action to improve people’s lives — in Boston and around the globe.

Furin knew that Kazabelo hovered on the edge of life and death. Furin doubted the HIV-negative test result and ordered another. Then, assisted by K.J. Seung, an instructor in medicine at Harvard Medical School visiting Nohana from the organization’s TB clinic in Maseru, Furin set to work.

In a U.S. hospital, Kazabelo would have been considered in critical condition, Furin said. She’d be in an intensive care unit, surrounded by doctors, though it is unlikely a child would be allowed to get this sick. Two years earlier, the baby almost certainly would have died, as neither the knowledge nor the equipment to save her existed at Nohana. The death would have happened quietly, however: just another African baby dying in a



Among her other afflictions, young Kazabelo suffers from the fungus Candida, which caused discoloration of her face and body.



Jonas Rigodon (above right), a doctor from Haiti, monitors a child’s health in the Nohana clinic. Outside of the clinic, local children and adults (below) wait to be seen by medical professionals.



place so remote that she wouldn’t even have been a statistic.

There are no sure things, of course, even with good medical care. During Furin’s two years in Lesotho, she’d held more than one child as it died. She sees them again at night, when she finds it difficult to sleep, trying to figure out whether she might have done something differently.

Outside her quiet apartment in Maseru, however, Furin is a blaze of activity — a “fireball,” her friends call her. The bush pilots who fly her to remote sites — themselves intrepid heroes of a kind — speak of her energy and determination with awe. She can’t rest, really, even to eat another piece of chocolate. Somewhere someone is lying sick, possibly horribly so. In a nation with just 80 doctors, there’s no time for rest.

But that day in Nohana, the baby had a chance. For a variety of reasons, with Furin that day were three other doctors —

together making up more than half of Partners In Health’s seven-doctor Lesotho workforce.

As Nohana clinic director Rigodon and a new doctor recently hired from Zimbabwe handled the stream of patients, Furin and Seung focused their attention on Kazabelo.

Getting an intravenous line in was the first and most critical order of business. Without fluids, the baby would die, possibly within hours. With tiny veins collapsed from dehydration, earlier attempts to tap veins in her arms, legs, and even scalp had failed.

Furin decided to try the left subclavian vein, a large central vessel that runs under the collarbone. It was a bigger target, but tricky to find. Talking soothingly to Kazabelo, Furin numbed the area with a shot of lidocaine. Kazabelo cried weakly and turned her head as the needle went in. After giving the anesthetic a few moments to work, Furin

inserted the IV needle, guiding it beneath the collarbone by feel and an intimate knowledge of anatomy. Minutes ticked by as she probed. The baby moved only slightly despite the discomfort, her head held still by Seung.

No luck. Another try. Into the silent room drifted the sounds from outside — bits of conversation, a few notes of bird’s song from a nearby tree. Again nothing. Another attempt. Finally, Furin stopped. She had gotten the little spurts of blood in the syringe that told her she’d found the vein, but the blood flow had stopped almost as soon as

it started, the needle skimming the vein’s rubbery surface.

The clock was ticking and they still needed to get an IV in. They decided to try the same vein on the other side. Furin was holding in reserve a more surefire solution, but one that she was loath to employ. The intravenous line could be placed in the baby’s shinbone — sending fluids into the marrow and from there out into the baby’s body. But doing that required a thick, stout needle and brute force to push it through the bone. It was tricky to maintain, slipping out easily, but the real issue to Furin was that it was excruciatingly painful.

She wasn’t ready to put Kazabelo through that just yet. Pulling the bed away from the wall, Furin and Seung repeated the earlier procedure on the other side. First lidocaine, then probe with the IV needle. They knew the vein was there somewhere — but so were Kazabelo’s lungs, so Furin took care to not probe too deeply. She used the collarbone as a guide, and followed it with the needle. Nothing.

She tried again, as time trickled away in the room and Kazabelo’s future hung in the balance.

The room was silent but for Furin and Seung’s terse conversation and Furin’s soothing talk to Kazabelo.

“I know, sweetie, I know.... I know that it hurts and I’m sorry ... I’m sorry.”

A few moments more and there was a brief flash of success as blood spurted into the syringe, then stopped as the needle slipped out again.

After 13 long minutes of trying, Furin gave up on finding a vein.

“It doesn’t want to stay; we’re going to have to go into the bone,” Furin said to Seung, then to Kazabelo, “I’m sorry, baby girl.”

With instructions to Seung to hold the baby’s leg down firmly, Furin again injected her with lidocaine and then pressed hard

(See **Nohana**, next page)

Gates

(Continued from page 19)

PBS. What Skip has accomplished is blending traditional historical research with scientific research to open up chapters of history previously beyond our reach. He has created what is virtually a new genre on television,” said Paula Kerger, PBS president and CEO. “Skip’s series consistently offer an open and accessible conversation that fosters a real understanding of our shared history as Americans, helping everyone recognize that we all stand on the shoulders of giants,” Kerger added.

“PBS has the unique capacity to disseminate sophisticated ideas to millions of viewers in a lively, compelling, and accessible way,” said Gates. “The incredibly enthusiastic response from all sections of the American public to our ‘African American Lives’ series reveals a deep hunger for programs about the African American experience and, indeed, about the complex interactions between Americans of all colors and

genders throughout the history of this great country. All Americans hunger to learn about the hidden aspects of our shared history, and our programs are aimed to fill precisely that need.

Gates added, “I am deeply honored by this unprecedented expression of support from CPB and PBS including the first comprehensive series ever done about the whole sweep of the history of African Americans in this country between 1619 and the present. Our audience ranges from schoolchildren to adults, representing all sectors of American society. I want these programs to help to educate all Americans about our fascinating and unusual history and therefore, about ourselves, about who we are as a people today.”

The documentaries will be complemented by an online oral history archive, a resource-rich Web site with user-generated content, educational tools, community outreach, and a national heritage registry and preservation campaign.

CPB, a private, nonprofit corporation created by Congress in 1967, is the steward of the federal government’s investment in public broadcasting. It helps support the operations of more than 1,000 locally owned and operated public television and radio stations nationwide, and is the largest single source of funding for research, technology, and program development for public radio, television, and related online services.

PBS is a media enterprise that serves more than 350 public noncommercial television stations and reaches nearly 73 million people each week through on-air and online content. Bringing diverse viewpoints to television and the Internet, PBS provides high-quality documentary and dramatic entertainment, and consistently dominates the most prestigious award competitions. PBS is a leading provider of digital learning content for pre-kindergarten through 12th-grade educators and offers a broad array of other educational services.

Nohana

Furin holds in place an intraosseous line inserted into Kazabelo’s shin as vital fluids flow into the patient.



Staff photo Justin Ide/Harvard News Office

(Continued from previous page)

hard with the stout, tough needle. Kazabelo whimpered softly, but a few seconds later they were in. The needle proved a bit tricky to position in the narrow space in the baby’s bone, but after a few adjustments, the IV fluid flowed steadily. Finally, they had a lifeline. Fluids flowed through the plastic tubing into the baby’s dehydrated body. Medicine would follow: large doses of two antibiotics to fight any underlying infection. Then, her cloudy eyes called for vitamin A, so Seung took a gel caplet, impossible for Kazabelo to swallow, cut off the end and squeezed the sweet liquid into her mouth.

Drugs for the tuberculosis that ravaged the baby had to be taken orally, so the next task was inserting a nasogastric tube, up through the nose and down the back of the throat into the esophagus and stomach. Kazabelo struggled a bit with that — a good sign, according to Furin. Once the tube was in, Seung crushed up medicine to fight tuberculosis, suspended it in water, and injected it in the tube. Steroids to help Kazabelo’s lungs followed.

Then Furin turned her attention to Kazabelo’s raw skin. After cleaning the baby, Furin smeared antifungal oint-

ment on her face and rump, wherever the patches showed Candida at work. “She’s got bad, bad skin breakdown here,” Furin said, then to the baby as she dabbed. “I’m sure that’s very sore. I’m sure that’s very sore. ... OK, princess. ...”

By then, Furin and Seung had been working on Kazabelo for nearly two hours. The plane, returning to pick Furin up, was expected soon. The quick turnaround meant a short stay in the mountains, but gave the pilots enough time to get back to Maseru before the afternoon thunderstorms rolled in.

But the plane was late, so Furin spent the next hour checking on other patients — a man stabbed in the head and chest, a 30-year-old woman who had suddenly lost her hearing and ability to walk. The woman tested positive for HIV, and Furin diagnosed meningitis as the cause of her neurological troubles. Meningitis can be brought on by TB, which sets in as HIV ravages the immune system. In between, Furin popped in and checked on Kazabelo every few minutes, trying to get her to eat a bit of vitamin-fortified peanut butter. She also gave instructions for the staff who would care for Kazabelo in the days to come: formula first

through the feeding tube, and then by mouth if possible, and medicine to fight her several ills.

With the plane more than an hour overdue, Furin finally allowed herself a rest, going to the house to sit, eat a bit, and take a drink. As she decompressed, she related Kazabelo’s case to the struggles of a nation at the epicenter of a calamity.

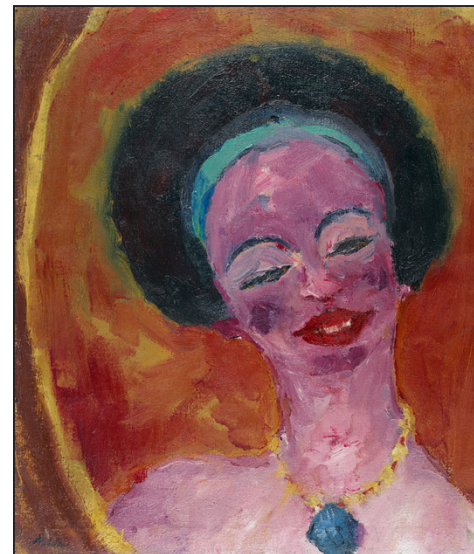
“I feel like if I hadn’t been here today — if our team hadn’t been here today, this child would have died,” Furin said. “I took care of a baby who otherwise would have been ignored and who didn’t become just another dead African baby.

“It’s a mess, it’s just a big fat mess,” she said of the complex interaction of AIDS, TB, and poverty in Lesotho. “It’s a mess every day, but it’s better than it was, so we’ll just keep trying.”

Editor’s note: Furin returned to Nohana several days after her initial treatment of Kazabelo and reported that the little girl was “... doing great! Eating an egg, singing away, and point[ing] an angry little fist in my direction.” Furin said she was happy to see Kazabelo with enough energy to be mad at her.

To read more, visit www.news.harvard.edu/worldmedia/.

Exhibit



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Emil Nolde’s expressionist painting ‘The Mulatto’ enlivens the exhibition.

(Continued from page 19)

Lincoln Memorial just opposite a bust of Longfellow by Edmonia Lewis. She’s the 19th century black and Native American sculptress whose Boston patrons were once the cream of the abolitionist movement.

In the fourth-floor space, viewers can also see the wild Nemean lion of classical lore be strangled twice by Hercules: once on a ceramic Greek amphora from around 500 B.C.E. (which also illustrates the black-figured, incised-detail silhouette technique of that era) and a second time just steps away, in an energetic oil-on-panel of the same scene, painted around 1639 by Peter Paul Reubens.

In the next of seven bright rooms of art, the viewer gets to see Hercules in a less heroic guise — dressed in a woman’s bonnet and jewelry, in a vividly detailed painting done by Lucas Cranch around 1535. (The bearded strongman, as punishment for killing a friend, had to dress and work as a woman for three years.)

The artful juxtapositions of “Re-View” are technical too. In one fourth-floor alcove, viewers can see side-by-side examples of watercolors rendered over graphite on white woven paper. Winslow Homer’s 1881 “Fisher Folk in Dory” looks tight and detailed next to John Singer Sargent’s soft-edged and light-filled “Artist in the Simplon” from 1910-11.

Gaskell called the three-museum show “an exercise in how all the collections cohere.”

“Re-View” is also a celebration of works that for years have been favorites at the Fogg and elsewhere.

Visitors can savor anew Sarah Miriam Peale’s “Still Life with Watermelon” (1822); gaze at Winslow Homer’s “Pitching Quoits” (1865); marvel at the hulking pastel potency of Franz Marc’s “Grazing Horses IV” (1911); feel the pre-Impressionist calm of Jean Frédéric Bazille’s “Summer Scene” (1869); and study the weight of sadness in Rembrandt van Rijn’s “Bust of an Old Man” (1672).

In the fourth floor’s last gallery is preserved most of the Fogg’s Maurice Wertheim Collection. It’s a familiar and still stunning brief tour through the brushstroke worlds of Monet, Degas, Dufy, Rousseau, Manet, Renoir, Picasso, Gauguin, Matisse, and Cézanne.

Only here can you see (and nearly hear) the long-gone clop of a carriage horse on the Nice boardwalk in Henri de Toulouse Lautrec’s “The Black Countess” (1881), a work of astonishing energy for an artist then just 17 years old.

“Re-View” — with its blends of the familiar and the strange — is an attempt to collect and extol “the history of visual thinking and creativity,” said Lentz. “It’s a test run on a very small scale of what we hope 32 Quincy St. will be when it reopens.”

‘Re-View’ presents extensive selections from the Fogg, Busch-Reisinger, and Sackler museums together for the first time. The exhibit opens Sept. 13. The Sackler Museum is located at 485 Broadway. www.harvardart-museum.org

Ash Institute honors city, state, federal programs with Innovations Awards

The Ash Institute for Democratic Governance and Innovation at Harvard Kennedy School (HKS) recently announced the winners of the 2008 Innovations in American Government Awards. These six government initiatives — consisting of one city, three state, and two federal programs — were recently honored at an awards gala and reception at the U.S. Chamber of Commerce in Washington, D.C. Innovations Award winners will receive \$100,000 toward replication of their initiative.

Gov. Janet Napolitano of Arizona delivered the event's keynote address on the unique position of states in generating and

spreading innovative practices nationwide. Ash Institute for Democratic Governance and Innovation director Anthony Saich and Innovations in American Government Awards director Stephen Goldsmith made opening remarks. Multiple dignitaries and past Innovations Award winners were in attendance. The event concluded with the first screening of the "2008 Visionaries," a PBS-produced documentary featuring all six winners' innovations.

The following government programs were honored as 2008 Innovations in American Government Award winners:

Acquisition Fund — city of New York, New York

Division of Youth Services — state of Missouri

Getting Ready: Keeping Communities Safe — state of Arizona

Global Maritime Domain Awareness — U.S. Department of Transportation

Intelligence Community Civilian Joint Duty Program — Office of the Director of National Intelligence

Learn and Earn — state of North Carolina

"For over 20 years, the Innovations in

American Government Awards has been at the forefront of identifying government initiatives with the strongest potential for improving the lives of citizens," said Goldsmith. "Each of today's winners produced a new, bold way of addressing a previously intractable problem."

The 2008 Innovations Award winners offer solutions to some of the nation's most pressing challenges and enhance policy research at Harvard and academic institutions worldwide. The Acquisition Fund of New York City makes housing more readily avail-

(See **Awards**, next page)

Collider startup brings ATLAS to life

Most powerful particle accelerator ever built seeks to illuminate universe's mysteries

By Alvin Powell
Harvard News Office

Scientists at Harvard and around the world held their breath Wednesday (Sept. 10), as colleagues switched on the most powerful particle accelerator ever built, the Large Hadron Collider at CERN, the particle physics laboratory in Geneva.

To their relief, the twin proton beams circulated in opposite directions around the 17-mile underground loop with no problems. Though the event, called "first beam" by physicists, was cause for celebration, the real fun begins in about a month when they direct those beams to cross, an event acutely anticipated because they're not quite sure what will happen next.

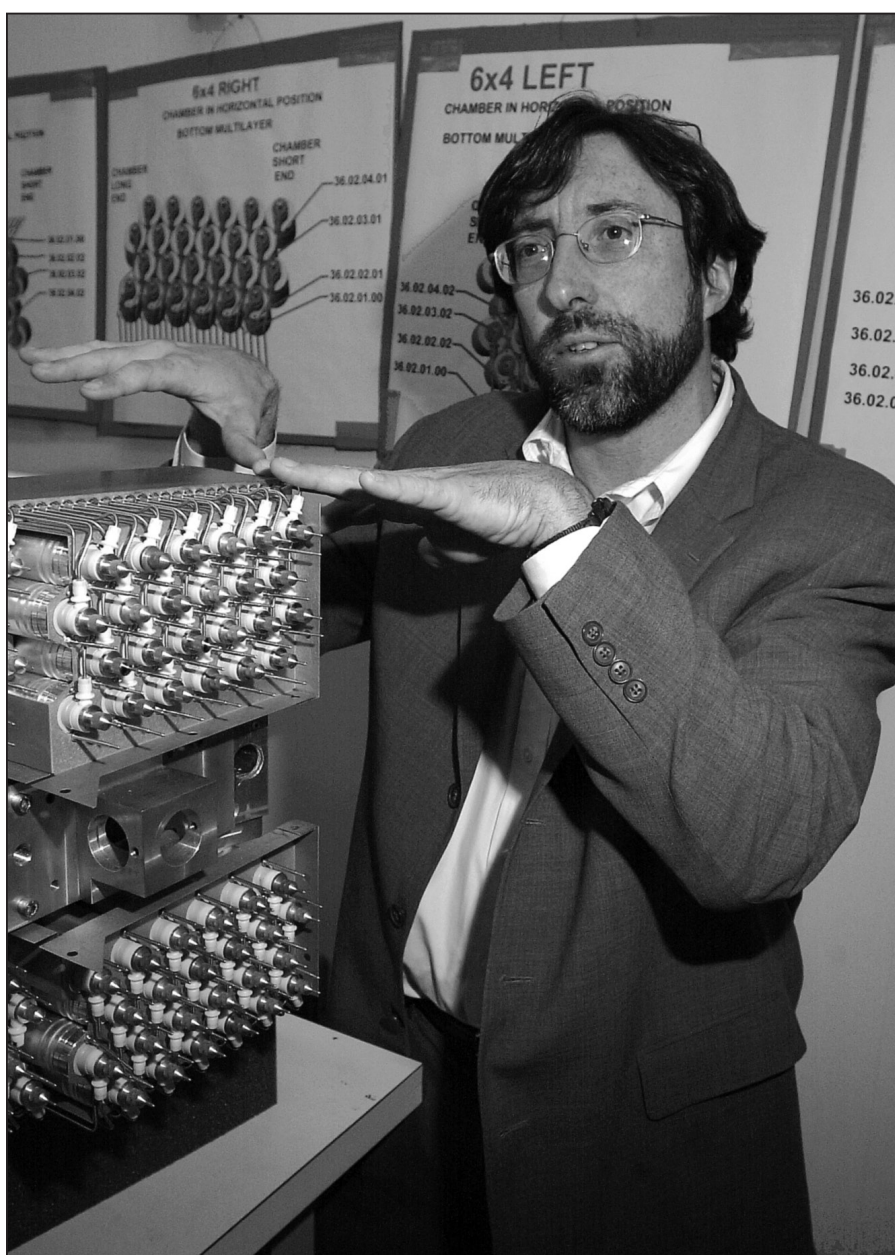
Theories about the collisions of enormously powerful proton beams present strange possibilities, such as the formation of microscopic black holes, the opening of new dimensions, and the creation of elusive, theorized dark matter. Scientists involved talk about the "new physics" and peeking into a realm where our current theories about how the universe works break down.

One hope is that those peeks will help us understand the universe's basic laws better, filling in glaring gaps in our knowledge and inspiring new theories that work equally well with all four of the universe's most basic forces, thereby attaining the "Holy Grail" of theoretical physics.

Donner Professor of Science John Huth, who is coordinating one of the Large Hadron Collider's (LHC) key experiments, called ATLAS, describes the upcoming proton beam collision as humanity's "largest single scientific undertaking." The uncertainty of what awaits, he says, is exciting.

"I've lived my life under this era of theoretical supremacy where everything worked out according to theory. Now we're right at the point where theories break down," Huth said.

The Large Hadron Collider is the most powerful ever built. Beams of protons traveling around the LHC's underground loop will smash into each other with a combined energy of 14 tera-electron volts (TeV). Though a single electron volt is fairly tiny — on the scale of that used by a flying mosquito, according to CERN officials — the LHC generates 14 trillion of them and packs them into a proton, more than a million times smaller. The energy achieved by the LHC will be seven times more powerful than the current record holder, Fermilab's



Staff file photo Jon Chase/Harvard News Office
Donner Professor of Science John Huth stands near a muon detector constructed at Harvard and now installed in the ATLAS experiment at the Large Hadron Collider at CERN in Geneva.

Tevatron.

Accelerators like the LHC have been used to explore the mysteries of the atom for decades. Huth's early work at Fermilab resulted in the discovery of the top quark, one of the 40 elementary particles predicted by theoretical physics' Standard Model. Huth said that discovery was exciting, but is nothing compared to this.

"The size of the [top quark] experiment is dwarfed by ATLAS. The size of the collaboration is dwarfed by the ATLAS collaboration. And the kinds of physics we're going to look at are also quite astonishing," Huth said. "It's almost a sensation of 'pinch me, can this really be happening?'"

The Large Hadron Collider sits in a circular underground tunnel that crosses

from Switzerland into France and back again. Along its circumference sit four detectors conducting experiments involving elementary particles.

ATLAS, which stands for "A Toroidal LHC Apparatus," is a collaboration involving some 2,000 scientists around the world. Huth, project manager for physics and computing for the U.S. portion of ATLAS, said the Harvard team consists of himself, Professor of Physics Masahiro Morii, Mallinckrodt Professor of Physics Melissa Franklin, Assistant Professor of Physics Joao Guimaraes da Costa, and Senior Research Fellow in Physics George Brandenburg. Joining them is a team of eight graduate students and four postdoctoral fel-

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Davis Center announces 2008-09 award recipients

The Davis Center for Russian and Eurasian Studies has announced its fellowship, prize, research travel grant, and internship recipients for the 2008-09 academic year.

A total of seven fellowships have been awarded for research pertaining to Russia and the former Soviet Union in the humanities and social sciences. Postdoctoral Fellowships have been awarded to Denis Kozlov, visiting assistant professor of history at Dalhousie University, for research on his project "The Readers of Novyi Mir, 1945-1970: 20th-Century Experience and Soviet Historical Consciousness"; Mie Nakachi (Ph.D., history, University of Chicago) for study on the politics of reproduction and demography in the postwar Soviet Union, 1944-68; Dussia Posner, a lecturer on theater at Boston College, for work on the Chaliapin family diaspora; Benjamin Tromly for investigation of the social and political meanings of higher learning in the Soviet Union through a study of student politics, 1948-64; and Emily Van Buskirk (Ph.D., Slavic languages and literatures, Harvard University) for research on the intermediary prose of Lydia Ginzburg. A senior fellowship was awarded to Jacques Rupnik, director of research and professor, Center for Study and International Research at Sciences Po, for research on his new project "The Other Europe Twenty Years On: Trajectories of Political Change in East-Central Europe and the Balkans Since 1989." A regional fellowship was awarded to journalist Masha Gessen for a study of censorship in the era of the Web.

Dissertation completion fellowships were awarded to Diana Kudayarova for her research on engineers in Soviet society and to Mikhail Pryadilnikov for his study of the evolution of regulatory reform in Russia.

Fainsod Prizes, intended for top incoming graduate students in the field of Russian, Soviet, or post-Soviet studies, were awarded to the following students:

Eric Ciaramella (Russian, East European, and Central Asian Studies [REECA]), whose research interests focus on Russian and Soviet policy toward minority language groups; Melih Egemen (Inner Asian and Altaic studies), who will study relations between the Russian and Ottoman empires; Alexandre Gontchar (Slavic) who will examine the shift from the visual to the conceptual mode in the plastic arts in the early 20th century; Philippa Hetherington (history), who will focus on late 19th and early 20th century Russian and East European history; Mihaela Pacurar (Slavic), who will study the works of the first post-Communist generation of writers; and Yuri Zhukov (government), whose interests include military analysis, counterinsurgency, civil-military relations, Cold War studies, state-building, and institutional design.

A total of 29 graduate students received re-

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able and affordable to disadvantaged residents by providing affordable housing developers and nonprofits with faster access to equity and predevelopment capital. North Carolina’s Learn and Earn program also seeks to level the playing field for disadvantaged populations. Through an intensive curriculum of project-based learning, Learn and Earn helps underperforming high school students jump-start their college educations and better prepare for today’s competitive workforce. The Division of Youth Services (DYS) in Missouri offers youth a similar fast track towards future academic and economic success. The program rehabilitates juvenile delinquent youth through a therapeutic group approach in small, homelike settings. Much like Missouri DYS’s humane approach to rehabilitation, the Arizona Department of Corrections’ Getting Ready: Keeping Communities Safe program offers a more therapeutic real-world re-entry initiative that is already resulting in notable drops in violence and recidivism in its prison population. For those who enroll with the program, prison life parallels life outside, with opportunities for job training and educational achievement.

This year’s federal Innovations winners encourage both cross-collaboration and knowledge sharing. The Intelligence Community Civilian Joint Duty Program of the Office of the Director of National Intelligence requires intelligence officials to complete a period of duty outside their parent agency. By working in one of the 16 outside intelligence community agencies, the program hopes to develop leaders with a broader sense of the inner workings of American intelligence. The Global Domain Awareness program of the U.S. Department of Transportation encourages similar collaboration. Its global vessel traffic monitoring system offers unprecedented levels of visibility into transit and port activity, tracking in real time the movements of more than 10,000 vessels from over 40 nations.

“From juvenile justice to the security of our global waters and prison re-entry, these government programs demonstrate creative, novel solutions to our nation’s most pervasive challenges,” said Saich. “Such innovations prove instrumental to our work at the Ash Institute, informing and enhancing scholarly research in our classrooms and driving policy and legislative changes at the state and federal levels.”

Since 1986, the Ash Institute’s Innovations in American Government Awards Program at Harvard Kennedy School has honored 187 federal, state, and local government agencies through Ford Foundation support. In highlighting exemplary models of government innovation, the program drives continued progress in improving the quality of life of citizens and encourages scholarly research and teaching cases at Harvard University and institutions worldwide. Many award-winning programs have been replicated across jurisdictions and policy areas, and have served as harbingers of today’s reform strategies or as forerunners to state and federal legislation.

The Roy and Lila Ash Institute for Democratic Governance and Innovation advances excellence in governance and strengthens democratic institutions worldwide. Through its research, education, international programs, and government innovations awards, the institute fosters creative and effective government problem-solving and serves as a catalyst for addressing many of the most pressing needs of the world’s citizens. Applicants for the 2009 Innovations Awards are encouraged to apply at www.innovation-saward.harvard.edu.

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search travel grants from the Davis Center. Details on the awards, including recipients’ names, departments or Schools, research topics, and destinations appear below.

Masha Hedberg (government) received the Padma Desai Research Prize for her project “Representing Business Interests in Post-Communist Politics” in Moscow.

REECA Alumni Prizes were awarded to Christina Jarymowycz (REECA) for “Clash of Memories: Reconstructing World War II in a Kiev Museum” and to Molly Pucci (REECA) for “How the 1948–1954 Show Trials Helped Build a Stalinist System in Czechoslovakia.”

Eight students received Abby and George O’Neill Fund Awards. They are Jennifer Howk (government), “Losing Ground: Climate Change, Uncertainty, and Social Mobilization in Three Arctic Communities”; Diana Kudayarova (history), “Engineers in Soviet Society, 1947–1965”; Inna Mattei (Slavic), “How the Steel Was Corroded: Aesthetic Dissent and the Crisis of Utopia in Late Soviet Culture”; Ana Olenina (comparative literature), “Intersections Between Cinema and Biomedical Science in Russia in the 1910s–20s: The Cases of Rudovkin and the FEKS”; Maya Peterson (history), “Technologies of Rule: Empire, Water, and the Modernization of Central Asia”; Rebecca Reich (Slavic), “Pleading Insanity: Diagno-

ATLAS

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lows. In addition, Huth also oversees another 40 people working on software and computing to handle the enormous amount of data expected from ATLAS. Among other institutions, Huth said the Harvard team worked closely with researchers from the Massachusetts Institute of Technology, and Tufts, Brandeis, and Boston universities.

ATLAS, the largest and most complex detector ever built, is a cylindrical instrument measuring roughly 40 meters long by 22 meters in diameter. Sitting in an underground cavern at one of the LHC’s beam intersections, ATLAS was assembled underground of parts made in different locations. It is made up of concentric layers of tubing bundled so that they look, as one scientist described it, “like a bunch of straws glued together.”

Each of the hundreds of tubes, 3 centimeters in diameter, contains a high-voltage wire that creates a signal when a particle strikes it. The wires are located with extraordinary precision and placed within a tolerance of about 50 microns — the width of a human hair.

Morii said it is most likely that there will be several months of calibrations and adjustments, making sure first that the beam is working properly and producing collisions and then that the detectors are working well, so researchers know that the results they’re getting are real and not an artifact of misaligned or malfunctioning equipment.

“You turn it on — Wow! Then once it runs, you can sit down and say, ‘Now, let’s get down to business. What are we getting? How well is the machine performing?’” Morii said. “Typically the first three months to six months of data are wasted because nobody understands what’s going on. Within a year people have a good idea of how the machine works.

“I plan for a tedious process of poring through lots of data. I tell students ‘life is tough, you’re going to have to go through a lot of junk.’ But there is a chance that the signal from the new physics is so spectacular

sis and Self-Definition in the Late Soviet Period”; Katherine Rose (Slavic), “Folk Culture and the Remnants of Tradition: The Art and Culture of Irkutsk and Vladimir”; and George Soroka (government), “Representation and Democracy in the Post-Communist Space: Political Elites and the Conception of Governance.” Soroka also received an Optimus Award to carry out research for the same project in Warsaw, Poland.

Maurice Lazarus Fund Awards went to 18 students. They include Mikhail Akulov (history), “The Origins and Development of the Atamans in Southern Ukraine during the Civil War (1917–1922)”; Johanna Conterio (history), “Constructing Soviet Paradise: Health Resorts, Environmental Medicine, and the Mobilization of Nature in the Proletarian State”; Nataliya Kun (Slavic), “Normative Literary Language and Conscious Mistake as Literary Device”; Kyongjoon Kwon (Slavic), “Archaisms and Innovations in the Old Novgorod Dialect”; Hassan Malik (History), “Russia as an Emerging Market”; Kyle Marquardt (REECA), “Language and the Assertion of Autonomy and Independence: A Comparative Analysis of Language Policy in Kazakhstan and Tartarstan”; Dylan Myles-Primakoff (REECA), “Indigenous Land Rights in Russia”; Tamara Pavasovic (sociology), “Socializing Children into Ethnic Prejudice and Hostility in Serbia, Croatia, and Bosnia”; Sabrina Peric (social an-

thropology), “Silver Bosnia: Precious Metals and the Western Balkans, 1390–2008”; Maxim Pozdorovkin (Slavic), “Shadows of the Golden Man: Turkmenistan and Turkmenbashi”; Sara Rhodin (REECA), “Love for the Motherland Starts at Home: Russian Family Policy Since 1936”; Jonathan Schlesinger (history), “Natural Frontiers in the Qing Empire in Boreal Manchuria, 1570–1907”; Aleksandr Senderovich (Slavic), “The Soviet Shibboleth: Translation and Border-Crossing in Russian-Jewish Literature (1917–1939)”; Katherine Surmanski (REECA), “Surface and Substance: The Political and Economic Causes of Soviet-Era Pokazukha, and Its Post-Soviet Legacy”; Andras Tilcsik (organizational behavior), “Rebuilding Civil Society in Eastern Europe: The Effect of ‘Percentage Laws’ on the Non-profit Sector”; and Olga Voronina (Slavic), “Winning Hearts and Minds: The Cold War in Russian Literature (1946–1968).”

Two graduate students received grants for language study. Oliver Bevan (government) for Russian study and Sofiya Grachova (history) for German.

Six undergraduates received Goldman Undergraduate Research Travel Grants from the Davis Center. Details on these awards, including recipients’ names, departments or schools, research topics, and destinations appear below.

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that when we get it we will know almost immediately that something’s happening.”

Breaking old theories to make new ones

The Large Hadron Collider was designed to burst the boundaries of known physics. For the past several decades, physics has been ruled by what’s called the Standard Model. The theory says, in essence, that everything in the universe is made up of 40 different elementary particles and it sets out rules by which those particles interact.

Most people understand that everything we see and handle in the everyday world is made up of atoms and that atoms consist of protons and neutrons bound together in a nucleus surrounded by a cloud of electrons.

The Standard Model takes that everyday understanding a bit further, breaking the protons and neutrons into even more basic particles called *quarks*, and positing a whole host of other particles with strange names like *leptons* and *bosons*, each with a particular characteristic and role to play in making the universe operate as it does.

The Standard Model has been so robust that its predictions have been verified by virtually every experiment carried out to test it. Just one particle predicted by the Standard Model — the Higgs boson — has yet to be seen in experiments. Scientists are eager to see whether the LHC’s energy levels can produce one.

Though the Standard Model has served the physics world well for decades, physicists know it’s not complete. For one, it encompasses just three of the four basic forces of the universe: electromagnetism and two less familiar forces, the “strong” and “weak” forces that operate inside the atomic nucleus, holding it together and fueling the reaction that powers the sun. The fourth basic force — gravity — operates under another set of theoretical rules entirely.

So physicists designed the Large Hadron Collider in the hope that what it reveals will help winnow the many theories competing to pick up where the Standard Model leaves off.

“As you stretch the theory to higher and higher energies, there is a point at which the theory cannot provide us with a consistent answer anymore. The theory itself stops working. That energy is just about the point we’re able to reach,” Morii said. “We knew that building this machine would have a huge impact on the history of particle physics. We have certain ideas about when the Standard Model will break and we want to break it. We fully expect something unexpected to happen.”

ATLAS, Huth said, was specifically designed to explore a subtheory of the Standard Model that describes the best-understood relationship between fundamental forces — that between electromagnetism and the weak force. Electroweak Theory says that electromagnetism and the weak nuclear force are different manifestations of a single force. ATLAS is designed to explore “symmetry breaking,” or how the single electroweak force can break into two forces with different characteristics.

Another important element of Electroweak Theory that needs fleshing out, Huth said, is how particles get mass. That, in turn, could provide the long-sought connection between gravity and the other three forces.

“That would be my fondest hope, that somehow there’s a gigantic ‘Aha!’ and we’re steered toward a theory that includes gravity as well as the other forces,” Huth said. “It’s the Holy Grail and, having been in this business since I was quite young, I’m not saying it will happen, but of all the places where there’s a chance it *might* happen, this would be it.”

When asked whether he has a favorite among the theories competing to explain what scientists will soon see, Huth said that, as an experimental physicist, he likes to remain neutral and let the results do the talking.

“My view of the best experiment is basically to create a blank slate and let Mother Nature write on it and tell you what’s going on,” Huth said.

Longtime champion of higher education Katherine Loker dies at 92

Katherine Bogdanovich Loker, a major Harvard benefactor and one of the nation's most active and generous supporters of higher education, died June 26 in Oceanside, Calif. She had suffered a massive stroke earlier in the week.

OBITUARY

Loker, who would have been 93 in August, maintained a level of activity that outpaced many people half her age. She was particularly involved at Harvard; at her *alma mater*, the University of Southern California (USC); and at California State University (CSU), Dominguez Hills. Close to Harvard Presidents Derek Bok, Neil L. Rudenstine, Lawrence H. Summers, and Drew Faust, and

Deans of the Faculty of Arts and Sciences Jeremy R. Knowles and William C. Kirby, she was an unwavering participant in the University's gatherings of alumni and friends.

"Katherine was an exceptional person and a wonderfully loyal and generous friend to this university and to higher education. Whether it was in support of the library, athletics, or renovations of historic Memorial Hall, her philanthropy was always undertaken with the students uppermost in her mind. Her generosity will affect many generations to come," said Faust.

Loker did indeed demonstrate a special interest in the welfare of students. At Harvard in the early 1990s, she funded the cre-

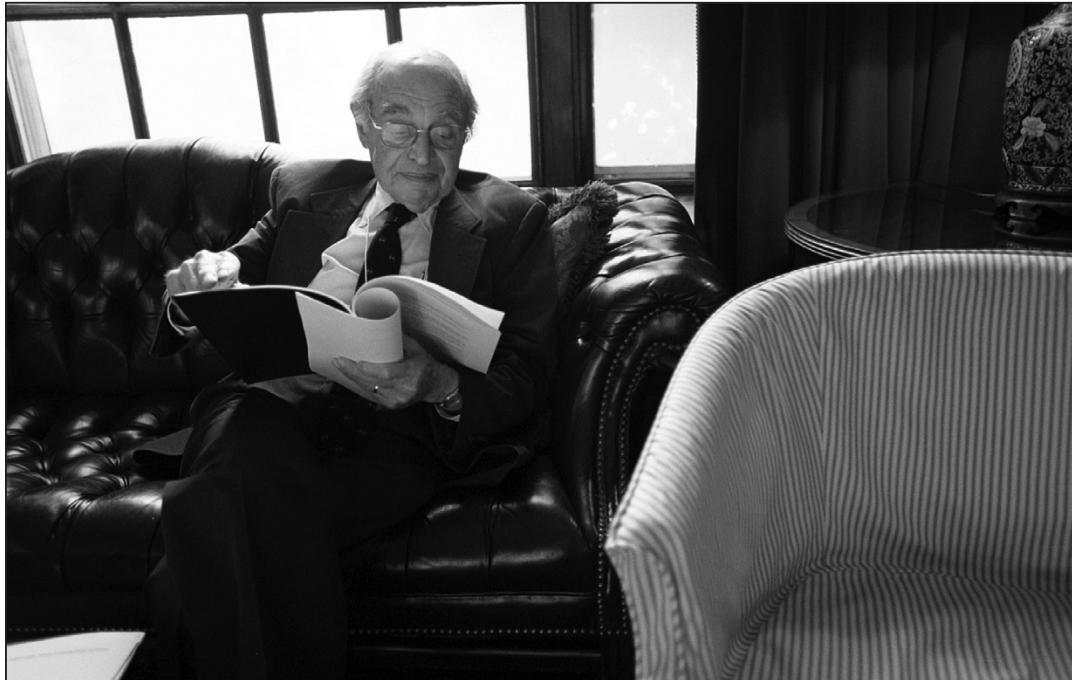
ation of a new gathering space for undergraduates, the Katherine Bogdanovich Loker Commons, on the lower level of Memorial Hall. Later, she stepped forward with another major gift to help renovate the Harry Elkins Widener Memorial Library, and Widener's main reading room is named for her. She also led the way in the rebuilding of the Memorial Hall tower and in supporting women's athletics at Harvard. Her gifts to Harvard's Faculty of Arts and Sciences totaled more than \$27 million.

Introduced to the Harvard community by her husband, Donald P. Loker, a member of the Class of 1925, she joined with him in endowing a professorship of English in 1983.

The Lokers were consistent in their support of Harvard and USC, and Katherine carried on their philanthropy for many years after Donald's death in 1989.

At Harvard, Mrs. Loker served as a national chair of The University Campaign from 1997 to 1999, as a member of the Committee to Visit the College from 1986 to 1993, and a member of the Overseers' Committee on University Resources Executive Committee. The University honored her long-time service and commitment by awarding her the Harvard Alumni Association Medal in 1996; and, in 2000, Harvard bestowed on

(See **Loker**, next page)



Staff file photo Stephanie Mitchell/Harvard News Office

Julius B. Richmond, who died on July 27, held appointments at the Harvard School of Public Health, Harvard Medical School, and the Harvard Kennedy School.

Richmond, former U.S. surgeon general, 91

By Christina Roache
HSPH Communications

Julius B. Richmond, a seminal figure in the history of American public health and pediatrics, and the first national director of the Head Start program, who held professorial positions at three Harvard Schools, died July 27 at his home in Chestnut Hill, Mass. He was 91.

As U.S. surgeon general in the Carter administration, Richmond issued the momentous 1979 report "Smoking and Health." As surgeon general he also set targets for the health of the American public with the "Healthy People" report.

During his time at Harvard, Richmond held appointments at the Harvard School of Public Health (HSPH), Harvard Medical School (HMS), and the Harvard Kennedy School (HKS).

HSPH's highest honor is named for him — the Julius B. Richmond Award — and it recognizes individuals who, like Richmond, have promoted and achieved high standards for public health conditions in vulnerable populations. The award was established in 1997, and Donna Shalala, former secretary of Health and Human Services, was the first to receive it. Last year, New York City Mayor Michael R. Bloomberg was honored. Richmond was an active participant and speaker at the award ceremonies over the years.

In 2006, a celebratory symposium was held to honor the 90th birthday, life, and work of Richmond, and to launch what was

then the newly established, University-wide Center on the Developing Child at Harvard University.

"It was an enormous privilege for me to work with Julie during my deanship," said Barry R. Bloom, dean of HSPH. "Whether I was seeking his advice on issues of children's health or tobacco control, honoring him at the annual Julius B. Richmond Award event, or running into him in the HSPH cafeteria, which he visited regularly, he was always fully engaged in pursuing his many passionate interests in health with incredible energy. His presence will be sorely missed, but he will continue to inspire us."

Allan M. Brandt, Kass Professor of the History of Medicine at HMS and dean of the Graduate School of Arts and Sciences, called Richmond's "contributions to medicine and public health... nothing short of legendary." Brandt said "[Richmond] was a tireless and committed advocate for children and their well-being, here in the U.S. and around the globe," and added that "as a result of his remarkable work, as a pediatrician, as a public servant, and as a champion for children and their families, millions now lead better lives."

And Jim Yong Kim, chair of the HMS Department of Global Health and Social Medicine, noted that "through his many important roles in the academy and in government, Julius Richmond did as much to improve the health of American citizens as anyone in the last century. But by far the greatest beneficiaries of his life's work were impoverished children and their parents in the United States and throughout the world.

Those of us who had the privilege of being his students and colleagues will miss him most for his warmth, sage advice on matters large and small, and, most of all, his commitment to social justice that served as a moral compass for us all."

Richmond was trained in pediatrics and child development and worked to introduce psychosocial development into pediatric education, research, and services. He received his undergraduate degree from the University of Illinois in 1937 and his M.D. from the University of Illinois School of Medicine in 1939. He served in the Army Air Force as a flight surgeon from 1942 to 1946. He returned to the Department of Pediatrics at the University of Illinois, and served as director of the Institute of Juvenile Research in Chicago.

In 1953, Richmond became chairman of the Department of Pediatrics at State University of New York (SUNY) Upstate Medical Center in Syracuse. He rose to the position of dean. During his tenure there, he completed collaborative work with Bettye Caldwell on the development of young children growing up in poverty, which led to his appointment in 1965 as the first director of the national Head Start program. He also served as assistant director for health affairs of the Office of Economic Opportunity.

From 1977 to 1981, Richmond served as U.S. surgeon general and assistant secretary of the Department of Health and Human Services. As surgeon general he reinvigorated tobacco control efforts through the release of the 1979 Surgeon General's report

(See **Richmond**, next page)

Scholar, curator, connoisseur Welch dies at 80

Stuart Cary Welch Jr., curator *emeritus* of Islamic and later Indian art at the Harvard Art Museum and former special consultant in charge, Department of Islamic Art at The Metropolitan Museum of Art, died Aug. 13 while traveling in Hokkaido, Japan. He was 80 and a resident of New Hampshire.

Welch, a legendary scholar, collector, and connoisseur, studied and taught at Harvard, where he was instrumental in transforming the Department of Islamic Art, establishing a curriculum of study of the arts of the Middle East and South Asia, and developing one of the finest collections of Islamic and later Indian art in this country. His lifelong association with Harvard culminated in his role over the past two decades as one of the most generous donors to the Harvard Art Museum.

"The contributions made by Stuart Cary Welch to Harvard are immeasurable and reflect a life dedicated to the appreciation, study, and sharing of the works of art that he loved," said Thomas W. Lentz, Elizabeth and John Moors Cabot Director of the Harvard Art Museum, who studied with Welch at Harvard. "Because of his endless curiosity and ongoing generosity, an exceptional resource for the teaching, research, and study of the artistic traditions of the Middle East and India exists for future generations. We mourn the loss of a brilliant scholar, teacher, curator, mentor, and friend."

"Cary was enormously energetic and prolific. He was simply a towering figure in the fields of Islamic and Indian art," said Mary A. McWilliams, Norma Jean Calderwood Curator of Islamic and Later Indian Art at the Harvard Art Museum. "He had an extraordinary capacity to engage with a work of art and an exceptional ability to communicate his experience and insights to others. We are eternally grateful for his long service and stewardship of the Department of Islamic and Later Indian Art here at Harvard, as well as his myriad contributions to the study of those traditions."

Welch developed an appreciation of art early in his childhood. Aside from being a collector of drawings at a very young age, Welch himself was an accomplished draftsman, a skill that carried through to his enrollment at Harvard and beyond. He was a graduate of the St. Paul's School in Concord, N.H., in 1946. That same year he began his undergraduate studies in fine arts at Harvard, where he continued his graduate work in classical art from 1952 to 1954. During that time, Welch intensified his study and collecting of Islamic and

(See **Welch**, next page)

Historian Fleming, 84, on faculty 40-plus years

Donald Fleming, an intellectual historian who studied the impact of science on American thought and was a member of the Harvard faculty for more than 40 years, passed away at his Cambridge home on June 16. He was 84.

Fleming, who was known for his vibrant and engaging presence in the classroom and on the Harvard campus, came to Harvard as professor of history in 1959, and was named the Jonathan Trumbull Professor of American History in 1970. He was the chair of the Department of History from 1963 to 1967, and between 1973 and 1980, he was director of the Charles Warren Center for Studies in American History.

Fleming taught courses on American and European intellectual history, and the history of science in America. He retired in 1999 at the age of 76. His courses were widely popular among undergraduates due to the organized, entertaining, and enthusiastic style of his lectures.

Born in Hagerstown, Md., Fleming graduated from Johns Hopkins University in 1943, and received his Ph.D. from Harvard in 1947. Fleming was on the faculty of Brown University from 1947 to 1958, where he was chair of the history department, and he taught at Yale from 1958 to 1959.

Fleming's published works included "William H. Welch and the Rise of Modern Medicine" (Little, Brown and Co., 1954) and "John William Draper and the Religion of Science," which was published in 1950 and received the Albert J. Beveridge Prize of the American Historical Association. He was a Guggenheim Fellow from 1955 to 1956, and he was a member of the American Academy of Arts and Sciences.

— Amy Lavoie/FAS

Loker



Staff file photo Joe Wrinn/Harvard News Office

At a 1992 dinner party, Katherine B. Loker poses with then-President of Harvard Neil L. Rudenstine (left) and Jeremy R. Knowles, then-dean of the Faculty of Arts and Sciences.

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her an honorary doctorate of humane letters.

The University of Southern California also benefited from the Lokers' generosity. They established the Loker Hydrocarbon Research Institute there, provided resources to endow research activities, and endowed a professorship in organic chemistry. Another gift funded the Katherine B. Loker Track and Field Stadium at USC. Mrs. Loker had been an accomplished sprinter in her youth, and competed for a spot on the 1936 U.S. Olympic team, missing out by fractions of a second.

In 1999, Mrs. Loker was awarded an honorary degree by California State University, Dominguez Hills. That institution recognized her for helping to shape its vision since its founding in the 1960s. Further, CSU, Dominguez Hills, celebrated the Lokers for making possible a new student union, and for Mrs. Loker's leading the construction of a building to house a unique magnet school, the California Academy of Mathematics and Science. She served CSU, Dominguez Hills, as a member of the President's Advisory Board and the University Foundation Board of Directors.

A native of Southern California, Mrs. Loker supported numerous other area in-

stitutions, including the Donald P. Loker Cancer Treatment Center at California Hospital, the California Museum of Science and Industry, the California Medical Center of Los Angeles, and the Los Angeles Music Center. She was a board member of the Richard M. Nixon Memorial Library and Birthplace in Whittier, Calif. She had been a longtime friend of the Nixons and of President and Mrs. Ronald Reagan. In 1993, Loker was saluted by the Senate Rules Committee of the California Legislature for her philanthropy and work on behalf of public and private organizations throughout the state. In 1999, The New York Times highlighted her as one of Southern California's leading philanthropists.

Mrs. Loker's parents were immigrants from Croatia, who settled in San Pedro, Calif. Her father, Martin Bogdanovich, a fisherman, founded the French Sardine Co. in 1917, which later became StarKist Foods. Her husband was a movie and stage actor for 15 years, served in the U.S. Navy during World War II, and then joined the StarKist management team before retiring in 1975 and pursuing a career in private investment. Mrs. Loker is survived by her two daughters, Katherine Pinard of Mashpee, Mass., and Deborah Hicks of San Francisco, and six grandchildren.

Richmond

(Continued from previous page)

"Smoking and Health" that presented considerable scientific evidence of the multiple harms of smoking. That same year, Richmond issued the landmark report, "Healthy People: The Surgeon-General's Report on Health Promotion and Disease Prevention." This report established quantitative health goals for the nation for the next decade — a process later institutionalized by the government. A committed advocate, he also chaired the steering committee of the Forum on the Future of Families and Children of the National Academy of Sciences from 1987 to 1993.

Richmond served in a number of prominent positions in the Harvard community. He was director of the Judge Baker Children's Center from 1971 to 1977. He was the director of the Division of Health Policy Research and Education at Harvard University. He also served as professor of child psychiatry and human development at Harvard Medical School as well as chairman of psychiatry at Children's Hospital Boston.

Richmond received numerous awards, including the C. Anderson Aldrich Award of the American Academy of Pediatrics, the Gustav O. Lienhard Award and the Walsh McDermott Medal of the Institute of Medicine of the National Academy of Sciences, the John Howland Award of the American Pediatric Society, the Sedgwick Medal from the American Public Health Association, and the Heinz Award for Public Policy.

Richmond was predeceased by his wife Rhee and his son Dale. He is survived by his wife Jean Berger Richmond; two sons, Charles of Indianapolis and Barry of Bethesda, Md.; two stepsons, Steven Berger of West Lafayette, Ind., and Michael Berger of Detroit; and four grandsons and five step-granddaughters.

Richmond's family held a private funeral. A memorial service honoring his life will be held Oct. 27 at 10 a.m. at the Harvard Club of Boston, 347 Commonwealth Ave. A reception will follow. Memorial contributions may be made to The Dale and Rhee Richmond Memorial Scholarship Fund, c/o University of Chicago, 5801 South Ellis St., 3rd Floor, Chicago, IL 60637; or the AAP — Dale Richmond/Justin Coleman Award Fund, American Academy of Pediatrics, Development Lockbox, 38367 Eagle Way, Chicago, IL 60678-1383.

Welch

(Continued from previous page)

Indian art. He also published some of his more entertaining and lighthearted drawings in Harvard's literary and humor magazines, including his series of Popular Professions Illustrated that appeared in the Harvard Lampoon and the Harvard Advocate.

While Welch concentrated in the study of fine arts at Harvard, at the time there were no classes or formal instruction available on the subject of Islamic or Indian art. Welch took the initiative to devise his own course of study by traveling extensively throughout the Middle East and South Asia to absorb regional traditions and culture. At the same time, Eric Schroeder, then honorary keeper of Islamic Art at the Fogg Museum, became his mentor at Harvard.

In 1956, Schroeder invited Welch to become honorary assistant keeper of Islamic Art at the Fogg, and thus began an era that saw Welch use his infinite enthusiasm to transform the fledgling Department of Islamic Art. He spearheaded the effort to establish one of the first American university curriculums in the study of the arts of the Islamic world. In 1960, he taught the first class at Harvard in Near Eastern Art. An instructor for 25 years at Harvard, Welch arranged for works of art to be made available for study by students and scholars. Over four decades at Harvard,

Welch served as honorary keeper, curator (retiring in 1995), and finally curator *emeritus*, and during his tenure he vastly enriched Harvard's holdings of Islamic and Indian art.

Concurrent with his work at Harvard, Welch served as special consultant in charge, Department of Islamic Art at The Metropolitan Museum of Art from 1979 to 1987. He was instrumental in making many important acquisitions that greatly enhanced the Metropolitan Museum's collection, and in 1985, he organized the groundbreaking exhibition "India: Art and Culture, 1300–1900."

Welch's scholarship, particularly in the fields of Persian and Indian painting and drawing, served as the foundation for many important exhibitions and accompanying publications, including "The Art of Mughal India, Paintings and Precious Objects" (Asia Society, 1964), the first important American exhibition devoted to Mughal art; "Wonders of the Age" (British Museum, National Gallery of Art, Harvard Art Museum, 1979–80); "Gods, Kings, and Tigers: The Art of Kotah" (Asia Society, Harvard Art Museum, Rietberg Museum, 1997–98); and "From Mind, Heart, and Hand: Persian, Turkish, and Indian Drawings from the Stuart Cary Welch Collection" (The Asian Art Museum of San Francisco, Harvard Art Museum, 2004–05), an exhibition of drawings from Welch's landmark gift to Harvard in 1999 of more than 300 works.

Over the 40 years that Welch spent at Harvard, he produced countless exhibitions, many of which may have been small in size, but which always tended toward the visual and poetic. His last exhibition is the first in a series titled "Perspectives" that

is part of the long-term exhibition "Re-View" at the Harvard Art Museum/Arthur M. Sackler Museum. The small installation, "Tree of Life: Five Indian Variations on a Theme," includes just five works of art but is characteristic of Welch's vision and approach. It opened in April 2008 just a few days after Welch's 80th birthday.

Considered his greatest scholarly achievement was the immense, two-volume study of "The Houghton Shahnameh," co-authored with Martin B. Dickson of Princeton University, which focused on the great early Safavid dynasty copy of the Persian national epic executed for the Safavid ruler and patron of the arts Shah Tahmasp (r. 1524–1576). Welch's insights fundamentally changed the way scholars thought about the development of early Safavid painting, demonstrating that it was, in fact, a brilliant synthesis of the earlier Timurid and Turkman styles of painting.

Welch's numerous exhibitions, publications, public lectures, and years of teaching propelled the study and appreciation of Islamic and Indian art to new heights, educating and enlightening generations of students, scholars, and museum visitors.

Stuart Cary Welch Jr. is survived by his wife of 54 years, Edith Welch, four children, and four grandchildren.

In lieu of flowers, contributions can be made to the Harvard Art Museum, Attn: Department of Institutional Advancement, 32 Quincy St., Cambridge, MA 02138; or St. Paul's School, 325 Pleasant St., Concord, NH 03301.

A memorial service is being planned at Harvard. Details about the location and date are not yet confirmed.



Welch

NHGRI/NIH awards Harvard researchers \$6.5M

The National Human Genome Research Institute (NHGRI), part of the National Institutes of Health (NIH), awarded a \$6.5 million grant (over four years) to a team of Harvard University researchers to further develop electronic sequencing in nanopores. The grant is part of more than \$20 million in total funding given by NHGRI/NIH to spur innovative sequencing technologies that are inexpensive and efficient enough to sequence a person's DNA as a routine part of biomedical research and

health care.

Daniel Branton, Higgins Professor of Biology *Emeritus* in the Faculty of Arts and Sciences (FAS), and Jene Golovchenko, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics in the School of Engineering and Applied Sciences (SEAS) and Department of Physics, who lead the nanopore group at Harvard, will oversee the research.

The team is among several grant winners that are developing nanopores (holes

about two nanometers in diameter) that may be able to recognize individual DNA bases by their electrical or ionic signals to achieve high-accuracy sequencing of individual DNA molecules.

The goal of the Harvard scientists is to design and optimize nanopore technology using novel electronic control and sensing methods to create a nanopore detector chip capable of sequencing a mammalian genome within a day on a single instrument.

University aims to reduce greenhouse gas emissions following new task force report

Setting a standard

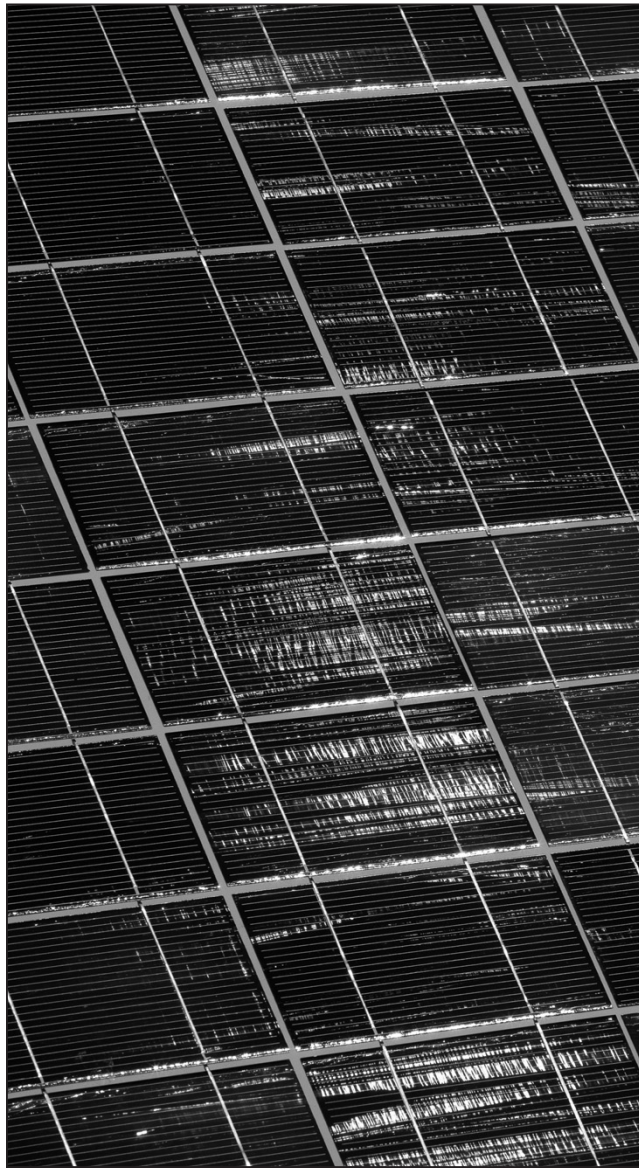
Harvard University released the report of its Greenhouse Gas Task Force on July 8. The task force, appointed by President Drew Faust in February, proposes elements of a framework for much-intensified efforts to reduce the University's greenhouse gas (GHG) emissions, as part of a broader effort to promote environmental sustainability.

"Confronting the need to reduce greenhouse gas emissions and promote sustainability is a paramount challenge not just for Harvard but for people and organizations around the world," said William Clark, the Harvey Brooks Professor of International Science, Public Policy, and Human Development and chair of the task force. "I'm very grateful to my colleagues on the task force for working so hard and so thoughtfully to analyze the science, technology, and changing regulatory and economic environment relating to climate change and to generate a unanimous set of recommendations that can establish Harvard as a leader in this crucial effort. We have a great opportunity and responsibility here. Every one of us in the extended Harvard family has a role to play in seizing it."

In a statement, Faust praised the task force for its report and outlined a set of substantive intentions and procedural next steps drawing on the report's analysis and proposals. Faust thanked the task force, chaired by Clark and Thomas Vautin, associate vice president for facilities and environmental services, for setting forth an ambitious and far-reaching set of recommendations rooted in the growing scientific understanding of the role played by GHG emissions in climate change.

"Our responsibility to future generations demands that we approach this problem with the seriousness of purpose it deserves and with the cooperative spirit essential to progress," Faust said. "We owe thanks to the members and staff of the task force for their thoughtfulness, resourcefulness, and hard work in pointing us forward on this important set of issues. It is now for all of us to take up the important challenge they have helped to set before us. What is at stake is nothing less than a change in the culture of how we work and live."

In light of the report's recommendations, Faust said that Harvard will pursue a comprehensive program of reducing GHG



Staff file photo Kris Snibbe/Harvard News Office
A solar panel on the roof of Gund Hall is part of a student project called 'The AT (ambient task) Wall' at the Graduate School of Design. The GSD student group that made this project is funded by 'Green Design.'

emissions, including "a long-term strategy intended to achieve continuous improvement in reducing Harvard's GHG emissions at the maximum practicable rate." Consistent with the report's proposals, the University will embrace an "adaptive approach" to the challenge of reducing GHG emissions, involving periodic review of progress and the consideration of short-term goals on a rolling basis. The task force's recommendation of such an approach, Faust said, makes particular sense in view of "a context in which energy costs, available technologies, regulatory requirements, and broader economic realities are shifting so rapidly that predicting the future is difficult, and establishing fixed goals becomes challenging." As an initial short-term goal, she said, Harvard will aim to reduce its GHG emissions,

including those associated with prospective growth, by 30 percent — relative to its 2006 baseline — by 2016, as the task force recommended.

"The goal we seek to achieve by 2016 is an aggressive one, especially in light of the prospective growth of our campus, and extraordinary efforts will be needed to meet it," Faust said. "We have consciously set a high bar for ourselves, in view of the importance and urgency — as well as the difficulty — of the challenge."

Faust embraced the task force's view that, in pursuing its goal, the University should place its principal emphasis on improving its own operations — by enhancing energy efficiency, reducing the GHG intensity of Harvard's energy sources, and managing demand. The University will also explore the manner and extent to which it can best use and develop high-quality carbon offsets as part of its GHG reduction efforts. More broadly, Faust stressed the importance of seeing GHG reduction efforts within the context of wider sustainability concerns, and of building on the University's growing research and educational efforts directed at confronting the challenge of climate change.

The Council of Deans will devote a portion of its summer retreat to discussing the strategic framework for Harvard's GHG reduction efforts, Faust said, and the University's Administrative Council will take up the issue at its next meeting. She added that it will be one of the first priorities of the University's new executive vice president, Ed

Forst, to convene a working group to chart a concrete implementation plan for GHG reductions. In addition, Harvard will plan a fall launch event to focus the University community's attention on the imperative of reducing GHG emissions and strengthening its larger commitment to environmentally responsible practices.

The new GHG reduction program marks the latest in a series of steps the University has taken over the past two decades to promote environmental sustainability. In the last decade, for example, Harvard has established the Harvard Green Campus Initiative to support sustainability efforts across the University, has achieved a recycling rate of more than 50 percent for the Cambridge and Allston campuses, and cur-

(See **GHG**, next page)

Weatherhead names new class of fellows

The Weatherhead Center for International Affairs (WCFA) recently announced its 2008-09 class of fellows. Each year, the WCFA fellows program brings senior-level international-affairs professionals to Harvard, where they conduct focused, independent research and also interact intensively with the academic community, including faculty, graduate students, and undergraduates.

This year's WCFA Fellows are as follows

Takeo Akiba, Japan, is director of the China and Mongolia Division in the Ministry of Foreign Affairs. A career diplomat, Akiba has held a number of key assignments. From 2004 to 2006, he was director of the International Legal Affairs Division, and from 2002 to 2004 he served as director of the Treaties Division. He has also been director of the U.N. Policy Division, as well as executive assistant to the vice minister for foreign affairs. Overseas assignments include three years in Washington, D.C., where he was first secretary at the embassy with responsibility for Japan-U.S. trade disputes. While at Harvard, he will examine the impact of weapons of mass destruction (WMD) proliferation on East Asian security.

Justin Chinyanta, a Zambian citizen residing in Johannesburg, South Africa, is the founder, chairman, and chief executive officer of Loita Holdings Corp., the holding company for Loita Capital Partners International. Chinyanta is an expert in the financial markets of sub-Saharan Africa, with more than 20 years of professional experiences in commercial and investment banking in the region. Before forming Loita Holdings Corp., Chinyanta was a vice president at HSBC Africa's regional office (1992-94). He is currently executive vice president for the Southern Africa chapter of the Africa Business Roundtable, and is on the expert roster of the U.N. Institute for Training and Research. While at Harvard, he will examine the New Economic Partnership for Africa's Development (NEPAD), with a particular focus on the role of the African private sector and capital markets in ensuring NEPAD's success.

Onno Hückmann, Germany, has been a director with the Ministry of Foreign Affairs since 2002, with responsibility for legal issues arising from World War I and II. In this position, he dealt with the legal situation of foreign army personnel in Germany, of the Bundeswehr on mission in foreign countries, and on questions of property rights ensuing from both world wars and Nazi injustices. Since joining the diplomatic service in 1979, he has had several overseas assignments that have included serving in Buenos Aires and Dublin. He also served previously as deputy head of section in the legal department in Bonn. Hückmann studied and trained in law from 1969 to 1978. His Harvard research will focus on compensation for National Socialist injustice.

Tamim Khallaf, Egypt, is a diplomat in the Ministry of Foreign Affairs. He has served most recently in Egypt's Permanent Mission to the U.N. in Geneva, dealing with disarmament and arms control issues with a focus on nuclear, biological, and conventional weapons. Previously, he served in the Office of the Secretary General of the League of Arab States. He received his master of science in international relations from the London School of Economics and a master of arts in political science from the American University in Cairo; he also earned his bachelor of arts from the American University in Cairo. While at Harvard, he is pursuing research on nuclear nonprolifera-

(See **Weatherhead**, next page)

Weatherhead

(Continued from previous page)

tion and disarmament, and on the peaceful uses of nuclear energy in the Middle East.

Sarah MacIntosh, United Kingdom, diplomat, Foreign and Commonwealth Office (FCO), has served most recently as the British high commissioner to Sierra Leone and as ambassador to Liberia. Prior to that, she was the strategy coordinator for the U.N. Mission in Kosovo. MacIntosh has worked in the U.K. missions to the United Nations at New York (development, health, macroeconomics) and Vienna (International Atomic Energy Agency), and at the British embassy in Madrid (EU and economic). In London, she has worked mostly in conflict and security issues in the U.N. Department and Conflict Group of the Foreign Office, and in the Foreign Office's Strategic Planning Unit. MacIntosh earned her bachelor of arts degree from Reading University, U.K. Her Harvard research will focus on weak and at-risk states.

Adamu Musa, a journalist from Cameroon, has spent most of his career with Cameroon Radio and Television (CRTV). He is currently editorial director, political analyst, and commentator, as well as a prime-time TV news anchor. He has held many other positions at CRTV, including editor-in-chief, news magazines and features, and senior reporter/presidential correspondent. Since 1984, he has also been a foreign correspondent and stringer for the BBC, Voice of America, and Voice of Germany. From 2004 to 2006, he served as communications officer in the World Bank's Cameroon/Central Africa Country Office; he has also been a consultant to the World Bank. In 2002, he was invited to participate in the Yale World Fellows Program. Musa was educated at the University of Yaounde, earning bachelor of arts degrees in English and journalism, and a master of arts degree in African literature. His Harvard research will focus on the Chinese equation in the new superpower scramble for Africa.

Young-hwan Oh, a Korean journalist, joined the JoongAng Ilbo, a leading newspaper, in 1988. He is currently editor, foreign affairs, and security division, JoongAng SUNDAY, the paper's Sunday edition. He has wide experience in foreign affairs and has been a correspondent for three key ministries: the Ministry of Unification, the Ministry of National Defense, and the Ministry of Foreign Affairs and Trade. He also worked previously as a correspondent to Tokyo. Oh served in the Korean military, working alongside U.S. soldiers at the Combined Field Army (ROK/US) headquarters. He was educated at Seoul National University, from which he received his B.A. in international relations. While at Harvard, he plans to examine the relationship between the United States and North Korea, and also to consider the future of the ROK-US alliance.

Steven W. Peterson, colonel, U.S. Army. Peterson has most recently served as a staff officer in the Office of the Under Secretary of Defense for Intelligence, U.S. Department of Defense. He has held a variety of intelligence command and staff positions in the United States, Germany, Korea, Bolivia, Saudi Arabia, Kuwait, and Iraq. He has served as an American Political Science Association Foreign Affairs Fellow/Legislative Aide to Congressman Steve Largent and in the Office of the Chief of Staff of the Army. He holds master's degrees in national security strategy, military science, campaign design, and information systems management. While at Harvard, he is pursuing research on the role of intelligence in national security policy formulation, foreign affairs, and conflict.

Leonid Polyakov, Ukraine, is currently with the Parliamentary Committee on National Security and Defense, Verkhovna Rada (the Ukrainian parliament). From 2005 to early 2008, he was the vice minister of defense. In

that position, he led a major review of defense policy, missions, and the armed forces' plans; managed major defense transformation programs; developed the minister of defense's positions on relations with NATO, EU, and Russia; managed Ukraine's support for the UN and NATO operations. From 1999 to 2005, he served as director, military programs, Ukrainian Center for Economic and Political Studies. Other previous assignments include senior expert, National Security and Defense Council Staff; general staff postings, Ukrainian Armed Forces; and command postings, Soviet Armed Forces (including combat service in Afghanistan from May 1985 to June 1987. His Harvard research will focus on international security, regional security, and security governance in new democracies.

Carolina Roca, Guatemala, has served as commissioner, Tax and Customs Administration, since 2005. In that position, she has increased revenue collection, reduced the evasion rate, and implemented an institutional strengthening and modernization plan. She has also served in several other national cabinet-level positions, including vice minister of energy and mines, vice minister of public finance, technical secretary of the economic cabinet, and director of external financing. Previously, Roca was a member of the research faculty of the Central American Institute for Business Administration and she has been a consultant for international organizations, working in El Salvador, Nicaragua, Paraguay, and Bolivia. She also worked in the private sector as a senior consultant and partner for a Guatemalan consultancy firm. While at Harvard, Roca hopes to examine the advantages and limitations of the use of international standards to modernize customs management in developing countries.

Peter Rothen, Germany, is a foreign service career diplomat. Since 2003, he has served as director, Human Rights Department, in the German Foreign Office. In his present job, he covers the full range of the U.N.'s system of human rights protection as the EU's external human rights policy. From 1999 to 2003, he was head of the political department of the German Permanent Mission to the U.N. in Geneva. Other previous assignments include deputy head of the EU External Relations department, German Foreign Office; head of economic section of the German Embassy in Prague, Czech Republic; desk officer in the press department of the German Foreign Office; and officer at embassies in Pretoria, South Africa, and in London, respectively. While at Harvard, he plans to focus his research on human rights issues.

Alexis Rwabizambuga, Rwanda, has most recently been an LSE Fellow, based at the Centre for the Study of Human Rights at the London School of Economics (LSE). Prior to attending the LSE in 2002 for his Ph.D. in corporate social responsibility, he worked for UNICEF, where he served as the GAVI adviser to the Minister of Health of Mali in Bamako. Formerly a consultant at NS-consultants, he has worked in several countries in Europe and Africa. Previously, Rwabizambuga was an analyst at Storebrand ASA, a Norwegian insurance firm based in Oslo. He holds a Ph.D. from the London School of Economics and Political Science, and a master of science in energy management from the Norwegian School of Management. While at Harvard, he will pursue research in environmental security and sustainable development in Africa.

Michèle Stanners, Canada, comes to Harvard following two decades of investing in community and country by connecting people around issues of national unity, ethnic relations, education, culture, youth, and politics. A leader and cultural strategist, her most recent challenge was to develop and implement a cultural policy for the province of Alberta.

She established and ran, from 1997 to 2005, the western regional office for the Canadian Unity Council, a national organization established to promote citizen understanding and involvement in the economic, political, social, and cultural institutions and values unique to Canada. Stanners is the recipient of numerous awards and is a frequently requested speaker and author for presentations on culture, leadership, and networking. While at Harvard, she will explore leveraging culture as a vehicle for economic and political integration.

Hiroshi Takano, Japan, politician, New Komei Party. As a member of the House of Councillors (upper house) from 1995 to 2007, Takano served as senior vice minister of the environment (2004-2005) and as chairman, standing committee on justice (2001-2002). From 1972 to 1994, he served in the Ministry of Foreign Affairs; his many assignments included overseas postings in Colombia, Mexico, Argentina, and the United States. Takano was educated at Tokyo University of Foreign Studies and also studied at the Universidad de Navarra and Universidad de Barcelona. His Harvard research will focus on the U.S.-Japan alliance.

Ben Van Houtte, Belgium, civil servant, European Commission. Since 2006, Van Houtte has served as head of unit for logistics, innovation, co-modality, Energy and Transport Directorate General (DG); the new unit deals with a range of subjects reflecting the priority attached to innovation and co-modality by the revised "White Paper on Transport Policy." Van Houtte joined the transport DG in 1996 with responsibility for the enforcement of liberalization legislation and for the control of state aid in the airline industry. Before joining the transport DG, Van Houtte worked in the commission's telecommunications DG as head of section for legislation in the telecommunications industry. Van Houtte has written extensively on competition and air transport regulation and is the co-author of "EC Competition Law in the Transport Sector." While at Harvard, he will focus on transport policy and European integration.

Ian Wallace, United Kingdom, civil servant, Ministry of Defence. Wallace's most recent assignment was in Baghdad as the political/policy adviser to the deputy commanding general of Multi-National Forces. Previously, he served in similar roles alongside British-led forces in both Basra, Iraq (2005) and Pristina, Kosovo (2001). During the early stages of coalition operations in Afghanistan and Iraq, he was the head of policy at the headquarters that runs all the U.K.'s overseas military operations. Wallace has also served in a wide range of Ministry of Defence appointments, including serving as a private secretary to the U.K. defense secretary with responsibilities that included oversight of defense business in Eastern Europe, the Balkans, and Central Asia. While at Harvard, he will pursue research on the conduct of stabilization operations and international engagement with failing states.

Craig Wills, United States, lieutenant colonel, U.S. Air Force. Wills' most recent posting was as the commander, 493d Fighter Squadron, RAF Lakenheath, United Kingdom, where he was responsible for the combat readiness and employment of U.S. Air Forces in Europe's only air superiority squadron. Previously, he was responsible for the development of air and space power strategy in the Korean theater of operations. Wills is a senior pilot with operational experience in F-15C/D and F-15E aircraft. He is a graduate of the U.S. Air Force School of Advanced Air and Space Studies, Air Command and Staff College, Squadron Officer School, and Air War College. His research interests include the expansion of NATO, the dynamics of coercion, and the integration of non-governmental organizations in formulating postconflict security strategy.

GHG

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rently has one of the highest number (35) of construction projects registered with the U.S. Green Buildings Council, including the renovation of the Blackstone office building, which achieved LEED platinum status, the highest-level certification. The University has also recently begun piloting numerous sustainable projects to test their effectiveness and feasibility, including the installation of rooftop solar systems to produce hot water, installing low-flow water fixtures in 3,000 units of graduate housing to conserve water and reduce the amount of water-related gas and electric energy by approximately 40 percent, and serving more produce and vegetables from regional farms in its dining halls.

"One of our primary goals in the Blackstone office renovation project was to learn and demonstrate how well sustainable design and construction techniques can be applied even to historic buildings," said Vautin, the vice chair of the task force. "Soon we will be installing a new steam turbine at the

For a pdf of the report and the president's statement,
www.president.harvard.edu/speeches/faust/080708_greenhouse.html

Blackstone steam plant that will produce electricity at more than double the efficiency of a conventional power plant, providing up to 10 percent of Harvard's power to its buildings during winter months.

"Across the campus, our facilities managers have many examples of how we can reduce our carbon footprint in a cost-effective way when we approach sustainability as an integral part of how we operate," Vautin added. "Our challenge now is to create a culture across the entire Harvard community in which our progress becomes systematic. We can achieve great energy efficiencies, and do a great deal of good for the future of the planet, if we embrace the challenge with determination and creativity."

Sustainability has already emerged as a fundamental consideration in planning for the University's expanded campus in Allston. The Allston Science Complex, for example, is being designed to produce only half the greenhouse gas emissions of a typical laboratory building that meets national standards, making Harvard the first in the nation to voluntarily agree to legally bind a developer to reducing greenhouse gases beyond the current standards.

Additional information on Harvard's broad array of sustainability efforts can be found on the Web site of the Harvard Green Campus Initiative at <http://www.green-campus.harvard.edu/>.

Both the task force report and Faust's statement emphasize the distinctive role that universities can play in addressing issues of climate change and sustainability through research and education.

"Harvard's potentially greatest contributions to solving the problem of climate change should reach far beyond our actions to limit GHG emissions arising from our own campus operations," said Faust. "Our research and teaching must generate knowledge about how we, not just at Harvard but across the United States and around the world, might use the discoveries of science, of technology, and of policy analysis to create a sustainable environment for generations to come. There can be few more compelling examples of what I have called universities' 'accountability to the future.'"

Harvard team takes top honors at Harvard and MIT competitions

HBS team wins big — and twice

By Colleen Walsh
Harvard News Office

A Harvard Business School class, a 12-year-old competition, and the collaboration of some of the University's sharpest scientific and business minds have yielded a company that could save countless lives.

A six-member team recently won both the Harvard Business School (HBS) and the Massachusetts Institute of Technology (MIT) business plan contests for their work on Diagnostics-For-All (DFA), a nonprofit that seeks to change the landscape of health care in the developing world with accurate, affordable, and easy-to-administer diagnostic devices. The technology is tantamount to replacing a high-tech laboratory with a simple paper-based test the size of a postage stamp.

"The objective is to find ways in which we can provide diagnostically useful information at the lowest possible cost. ... It has to be cheap and accurate and portable [as well as] mechanically robust and easy to interpret," said George Whitesides, Woodford L. and Ann A. Flowers University Professor, whose lab created the technology.

The annual Harvard competition affords students real-world experience, encouraging them to develop a business model around an innovative concept. This year's contest narrowed the field from 73 teams to nine finalists. It gave out two first-prize awards, one to the top team competing in the "traditional" track and one to DFA, which took part in the social enterprise track, "for enterprises with an explicitly social agenda." For its plan the nonprofit received a check for \$10,000.

This was the first time a Harvard team took top honors at both the HBS Business Plan Contest and the MIT 100K Entrepreneurship Competition, where it beat out more than 230 other teams from both the for-profit and the not-for-profit sectors for the grand prize and a check for \$100,000.

In recognition of its accomplishment, the DFA team rang the opening bell for the New York Stock Exchange in June.

The technology, invented and developed by Whitesides and his colleagues Scott Phillips, now an assistant professor in chemistry at Pennsylvania State University and former member of Whitesides' group, and Andres W. Martinez, a current research assistant in chemistry and chemical biology in Whitesides' lab, aims to help diagnose and treat patients in the developing world using a small paper-based testing device. With a drop of a patient's blood, sweat, or urine placed on specially treated paper, the test wicks the fluid to four distinct zones that change color to determine the presence of certain proteins or enzymes that can, in turn, indicate certain renal diseases and metabolic disorders.

The images of the color changes can be photographed with a cell phone, sent electronically or digitally to an off-site lab, and quickly analyzed by a specialist who can

then send back a result.

A future goal of the test is the on-site, instant diagnosis of diseases like HIV/AIDS, tuberculosis, and malaria with a simple color change indicating a positive or negative result. The technology, its creators say, can also be modified for other applications like environmental testing.

The test's simplicity reduces the need for trained specialists and complex, expensive lab equipment in hard-to-reach locations, say DFA team members. In addition, it is easy to manufacture and discard,

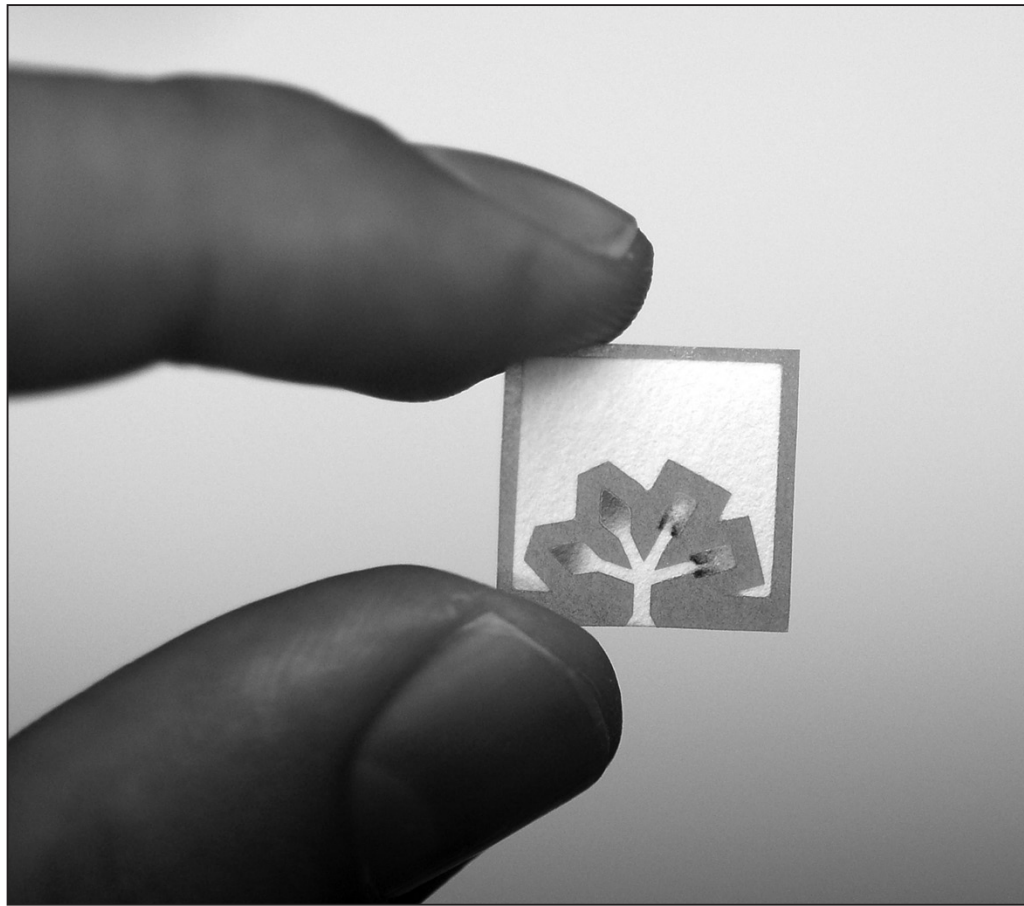


Photo by Andres W. Martinez

With a drop of a patient's blood, sweat, or urine placed on specially treated paper, the test wicks the fluid to four distinct zones that change color to determine the presence of certain proteins or enzymes that can, in turn, indicate certain renal diseases and metabolic disorders.

rendering it cost-effective.

"If you are going to use this in difficult circumstances, whether it's the Third World or homeland security or the military or environmental monitoring, you don't have the full facilities of trained technicians in a central lab so you need simpler and more self-evident kinds of tests," said Whitesides.

The new venture grew out of the HBS course "Inventing Breakthroughs and Commercializing Science." The class examines ways of bringing new science to the marketplace and includes graduate students from other Harvard departments as well as from other institutions. As part of its curriculum the course also guides students in the development of a business plan for the annual HBS contest.

"[The class] really represents a place where students with quite different backgrounds but who are interested in the commercialization of really innovative science can come together and work on both evaluating the science and asking, 'Is it ready for commercialization?'" said Vicki Sato, HBS professor of management practice and professor of the practice of molecular and cellular biology at the Faculty of Arts and Sciences. Sato teaches the class and acted as the team's mentor. She praised the

diverse nature of the group, which included a cardiac surgeon, a postdoctoral research associate from MIT, and a visiting scholar from the Middle East.

The latter, Saudi Arabian scholar Hayat Sindi, who works in George Whitesides' laboratory and took part in the HBS course, proposed creating a business plan around the technology. Together she and her classmates formed a team and consulted with members of Harvard's School of Public Health as well as the creators of similar companies while crafting their

plan.

For Sindi, the chance to participate in the project made her dream of helping people a reality.

It was about "how we can convince people that science can affect people's lives and invest in [that science]," she said.

As for winning both competitions, Sindi remarked, "It was a starting point. It made us believe in ourselves more. When you have all this attention, it only pushes you to make sure you will make it."

Like many new ventures that began as part of these contests and developed into successful companies, DFA is well on its way. The company has a board of directors, recently hired a chief executive officer, and is currently searching for office space in the Cambridge area. In addition, Harvard's Office of Technology Development will license the company's intellectual property without charging royalties.

For Whitesides, the work represents a shift in focus for many students looking to make a difference in the world.

"The students are genuinely excited by the idea that by working on this, by doing research, they might do something which makes a perceptible social contribution as opposed to just a financial contribution."

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HBS, China Fund open office in Shanghai

Harvard Business School (HBS) Dean Jay O. Light and William C. Kirby, T.M. Chang Professor of China Studies and chairman of the Harvard China Fund, announced the opening of a Harvard office in Shanghai on July 2. The office will serve both HBS and the Harvard China Fund under the auspices of the Office of the Harvard University Provost. The University plans to open another office in Beijing this autumn. Both locations will enable exploration into a range of potential activities in support of Harvard's research and teaching programs. Light and Kirby made the announcement in Shanghai.

Harvard's new China offices will have a number of key responsibilities, including the following:

- Providing local coordination and assistance to Harvard's various Faculties and Schools, and assisting individual faculty and students engaged in research, teaching, or other academic activities in greater China;

- Offering Harvard students on-the-ground services for regional study and internship programs;

- Facilitating admissions interviews and programmatic events for prospective students;

- Coordinating and promoting further collaboration between Harvard and Chinese universities and other organizations;

- Building deeper connections to a growing Harvard alumni population in the region.

The Shanghai office will house a researcher affiliated with HBS's Hong Kong-based Asia Pacific Research Center. Under the direction of the HBS Global Initiative, the other Business School international research centers are located in Latin America, Japan, India, and Europe. Each center has an executive director who leads a team of case writers, all of whom are fluent in the language of the host country and are familiar with its customs, companies, universities, and governments.

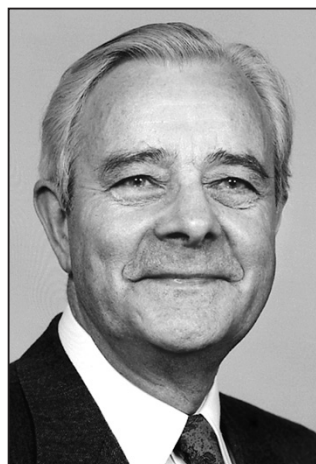
"We are very pleased to be opening this new facility in greater China," said Light. "Harvard Business School has had a longstanding interest in and commitment to the region. Today, increasing numbers of HBS faculty list China among their top areas of geographical interest. The addition of this new office will add significantly to our research and our understanding of the world's fastest-growing economy. We look forward to working with and learning from Chinese businesspeople, government officials, and many others in the years ahead."

"With this visit to China," noted Kirby, "we are proud to follow in the footsteps of Harvard University President Drew Gilpin Faust, who recently received an honorary degree from Peking University, and of more than 600 Harvard University alumni and friends who came to China in March to participate in the largest gathering of Harvard graduates ever held outside the United States.

"Through the resources of the Harvard China Fund, Harvard University will continue to investigate and increase its options in greater China. Generations of Harvard College students and Harvard graduate students will benefit greatly from these opportunities now and in the future, and these initial steps towards establishing a more comprehensive set of facilities in the region will further the University's research and teaching missions."

Faculty of Medicine — Memorial Minute

He began his career when Radiological Physics was a new and formative field and was a major force in its development and growth for almost fifty years. His contributions will continue to shape the field for many years to come.



Edward 'Ted' W. Webster

Edward ("Ted") W. Webster, Ph.D., 83, Professor Emeritus of Radiology (Physics) Harvard Medical School (HMS), passed away on Saturday, December 17th, 2005. He will be remembered both for his many scientific contributions and his friendly, warm and supportive manner. Dr. Webster retired in 2001 after 47 years of service with the Departments of Radiology at HMS and Massachusetts General Hospital. He is survived by his wife of forty-four years, Dorothea and six children, John, Peter, Anne, Edward, Mark and Susan; a sister, Margaret Bates; and six grandchildren.

Ted was born on April 12, 1922 in London, England in very modest circumstances. His father, a post-office worker, encouraged him to pursue academic achievement that led eventually to his attending the University of London as a scholarship student. He received a B.Sc. degree in Electrical Engineering with First Class Honors in 1943 and stayed on for graduate research receiving his Ph.D. in 1946. After working for several years in England he ventured to Massachusetts Institute of Technology (MIT) for post-doctoral study in high voltage engineering. There he joined a collaborative program between MIT's high voltage accelerator group and Lahey Clinic to develop high-voltage electron and photon radiation dosimetry methods. Thus began Ted's long career in Medical Physics. After a brief return to England he came again to the United States to accept a position as Medical Physicist at the Massachusetts General Hospital (MGH) department of Radiology in 1953. He was, at that time, the only physicist in the department, supporting both Radiation Oncology and Diagnostic Radiology clinical activities.

His research interests at that time included the application of electron beams to radiation therapy; a field in which he made important early pioneering contributions. As time went on his interests expanded to include diagnostic radiology, and when Radiation Oncology at MGH became a separate department he stayed in radiology as the director of the Division of Radiological Sciences, a position he held until his retirement in 2001. Over the years his research evolved into diagnostic imaging and radiation dosimetry and eventually to both the scientific and societal aspects of radiation effects. Over his career he became a pioneer and world-renowned contributor in the latter field as evidenced by his more than one hundred thirty publications, numerous invited lectures, academic debates and other activities.

Ted was also a pioneer in the field of radiology education and was instrumental in the development of the American Board of Radiology's Radiological Physics curriculum and examination system. He achieved certification in that organization in 1957 and soon after became an examiner in Physics. He served the board

for more than twenty-six years and during his tenure contributed significantly to the design of the examination process. He served as an examiner for fifteen hundred radiologists and physicists during that time. Ted also founded and directed the New England Roentgen Ray Society's course in radiological physics which for more than twenty years was a primary vehicle for the training of Radiology Residents in the New England region.

During his years at MGH he was appointed Radiation Safety Officer (1962-1980), Chairman of the Radiation Safety and Radioactive Drug Research Committees and the Committee on Research (1964-2001). During his long career he instructed radiology residents at Harvard University, Harvard Medical School, Harvard School of Public Health, and Northeastern University.

He also served the field through his extensive activities in professional societies and government throughout his long career. He was a founding member of the American Association of Physicists in Medicine, served on its first board of directors and as its fifth president in 1964. He served on multiple committees of the National Council on Radiation Protection from 1961 to 1993 and authored a number of reference works published by that organization. He served as a member of the USFDA Beir III Committee that defined many of the modern ideas concerning radiation effects and numerous other national and international committees on Radiology and radiation effects from 1961-1995. These include The International Atomic Energy Agency, The International Council on Radiation Effects and Measurement, The World Health Organization, The International Council on Radiation Protection and The Atomic Bomb Casualty Committee.

Ted received many prestigious awards in acknowledgement of his contributions to the fields of Radiology and Radiological Physics. Some of the more notable of these include the Coolidge Award of the American Association of Physicists in Medicine (1983), the Gold Medal of the American College of Radiology (1991) and the Lauriston S. Taylor Award of the National Council on Radiation Protection (1992).

He began his career when Radiological Physics was a new and formative field and was a major force in its development and growth for almost fifty years. His contributions will continue to shape the field for many years to come.

Respectfully submitted,
James Thrall, Chair
John Correia, Co-Chair
Ron Callahan
Gordon Brownell
Beth Haire

Inside



Rebuilding New Orleans
Author Jed Horne speaks
Page 35

concerts

Fri., Sept. 19—**“An Evening with Gordon Lightfoot.”** (Harvard Box Office) Gordon Lightfoot, singer/songwriter. Sanders Theatre, 8 p.m. Tickets are \$57.50 and \$47.50. Harvard Box Office (617) 496-2222.

Sat., Sept. 20—**“Al-Kindi Ensemble — The Whirling Dervishes of Damascus.”** (Center for Arabic Studies, Harvard Box Office) Al-Kindi Ensemble, featuring four Whirling Dervishes and liturgical singer Sheikh Hamza Shakkûr. Sanders Theatre, 8:30 p.m. Tickets

are \$40/\$32/\$28. Harvard Box Office (617) 496-2222.

theater

American Repertory Theatre
Fri., Sept. 12-Sat., Oct. 11—**“Let Me Down Easy,”** written and performed by Anna Deavere Smith, is a journey in search of human qualities that are too seldom in the news — compassion, generosity, and grace in the face of a complex world. Directed by Eric Ting with new music elements composed by Joshua Redman.
—*Performances take place at the*

Loeb Drama Center, various times. Ticket prices range from \$15-\$79 general; \$25 students; \$10 off for senior citizens; group discounts available. A.R.T. Box Office (617) 547-8300, in person at the Loeb Drama Center Box Office, or www.amrep.org.

film

Harvard Film Archive
All films are screened in the Main Auditorium of the Carpenter Center for the Visual Arts, 24 Quincy St. Video

(Continued on next page)

Calendar

Events for September 11-25, 2008



‘People and Places’ features photographs by Jeanne Ramalho that represent some of her favorite moments in places she’s been, as well as some of her favorite people. The exhibit is on view in the Holyoke Center Arcade Sept. 12-Oct. 8. See exhibitions, page 33.

ABOVE: ‘Ludlow,’ 2005

(Continued from previous page)

presentations are presented in B-04, a smaller auditorium next to the main auditorium. Programs are subject to change; call for admission charges and details. The Film Archive publishes a schedule of films and events that is available at the Carpenter Center. (617) 495-4700, <http://hcl.harvard.edu/hfa/>.

Mon., Sept. 22—**“Eyes Upside Down: An Illustrated Lecture by P. Adams Sitney”** at 7 p.m. Special event tickets are \$10.

radio

Harvard Radio WHRB (95.3 FM)
WHRB presents the finest in classical, jazz, underground rock, news, and sports programming, and has 24-hour live Internet streaming from its Web site. Program guide subscriptions are free. (617) 495-4818, mail@whrb.org, www.whrb.org.

Guidelines for listing events in Calendar

Events on campus sponsored by the University, its schools, departments, centers, organizations, and its recognized student groups are published every Thursday. Events sponsored by outside groups cannot be included. Admissions charges may apply for some events. Call the event sponsor for details.

To place a listing

Notices should be e-mailed, faxed, or mailed to the Calendar editor. Pertinent information includes: title of event, sponsoring organization, date, time, and location; and, if applicable, name of speaker(s), fee, refreshments, and registration information. A submission form is available at the front desk of the News Office, 1060 Holyoke Center. Promotional photographs with descriptions are welcome.

Addresses

Mail:
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Harvard Gazette
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Cambridge, MA 02138

Telephone: (617) 496-2651
Fax: (617) 496-9351
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Deadlines

Calendar listings must be received at least one week before their publication date. All entries must be received by 5 p.m. on Thursday. If you are uncertain about a deadline, holiday schedule, or any other information, please call the Calendar editor at (617) 496-2651.

Online

The Calendar is available on the Web at <http://www.news.harvard.edu/gazette>. Click on Calendar.

Available space

Listings for ongoing exhibitions, health and fitness classes, support and social groups, and screenings and studies are provided on a space-available basis. Information not run in a particular issue will be retained for later use.

Screenings/studies and support group listings must be renewed by Jan. 5 or Aug. 30 to continue running for an additional term.

“Hillbilly at Harvard”—Saturdays, 9 a.m.-1 p.m.

Living on Earth, National Public Radio’s journal of the environment, hosted by Steve Curwood, Department of Earth and Planetary Sciences, and produced in cooperation with Harvard University, is aired on more than 270 NPR stations nationally and on more than 400 outlets internationally. In eastern Massachusetts, the program airs Sunday, 7 a.m., WBUR 90.9 FM. (617) 868-8810, loe@npr.org, www.loe.org.

exhibitions

Arnold Arboretum
“Jamaica Plain Open Studios: Artists in the Arboretum” features Arboretum-inspired work by local artists. Opening night: Wed., Sept. 17, 6-8 p.m.; opening weekend: Sept. 27-28, 11:30 a.m.-6 p.m. (Sept. 17-Oct. 10)
—*Lecture hall, Hunnewell Building, 125 Arborway, Jamaica Plain. (617) 524-1718, www.arboretum.harvard.edu.*

“Science in the Pleasure Ground” provides a captivating retrospective on the oldest arboretum in the nation. The central feature of the exhibit is an 8-foot by 15-foot scale model of the Arboretum that includes historical vignettes and present-day attractions. (Ongoing)
—*Hunnewell Building, 125 Arborway, Jamaica Plain. Hours are Mon.-Fri., 9 a.m.-4 p.m.; Sat., 10 a.m.-4 p.m.; Sun., noon-4 p.m.; closed holidays. (617) 524-1718, www.arboretum.harvard.edu.*

Baker Library
“A Concrete Symbol: The Building of Harvard Business School, 1908-1927” looks back at the process behind the planning and building of the campus. Exhibit will include architectural guidelines, correspondence, early plans, detailed blueprints, elevation drawings, and construction photographs. (Through Sept. 29)
—*Bloomberg Center, north lobby, Baker Library, HBS. Exhibition available online at www.library.hbs.edu/hc/buildinghbs.*

Cabot Science Library
“Sublime Spectacle: Exploration and Geology in the Grand Canyon” shows what the canyon consists of and how it was formed, and also discusses the exploration of the canyon by scientists in the 19th century. Clarence Dutton’s “Atlas to Accompany the Tertiary History of the Grand Cañon District” will be on display. (Through Oct. 10)
—*Cabot Science Library, main floor. (617) 496-5534.*

Carpenter Center
“New Faculty Show” features work by Sanford Biggers, Taylor Davis, Greg Halpern, David Lobser, and Catherine Lord. From film and video to mixed media sculpture to animation and photography, the work in this show highlights the intersections between contemporary art and contemporary technologies to address contemporary concerns. Reception Thu., Sept. 25, 5:30-6:30 p.m. (Sept. 15-Oct. 23)
—*Main gallery, Carpenter Center, 24 Quincy St. Hours are Mon.-Sat., 9 a.m.-11 p.m.; Sun., noon-11 p.m. (617) 495-3251, tblanch@fas.harvard.edu, www.ves.fas.harvard.edu.*

Collection of Historical Scientific Instruments
“Time, Life, & Matter: Science in Cambridge” traces the development of scientific activity at Harvard, and explores how science was promoted or affected by religion, politics, philosophy, art, and commerce in the last 400 years. Featured objects include instruments connected to Galileo, Benjamin Franklin, William James, and Charles Lindbergh. (Ongoing)
—*Putnam Gallery, Science Center*

136, 1 Oxford St. Free and open to the public. Children must be escorted by an adult. (617) 495-2779.

Countway Library of Medicine
“Complementary Therapies: Masterworks of Chinese and Botanical Medicine” is held in conjunction with “Grand Delusion?”, bringing to light some of the treasures of the collection and including the first Western texts dealing with Chinese medicine and acupuncture. (Through December 2008)
—*Center for the History of Medicine, Countway Library. (617) 432-6207, jack_eckert@hms.harvard.edu.*

“Grand Delusion? The History of Homeopathy in Boston” traces the developments of the history of homeopathy in Boston and Massachusetts and the contributions and experiences of its practitioners, in both conflict and concert with their regular medical colleagues. On exhibit are rare books and pamphlets, both supporting and attacking the homeopathic movement; a specimen of documents from an 1871 trial to expel homeopaths from the Massachusetts Medical Society; an early 20th century homeopathic medicine chest; and more. (Through December 2008)
—*Center for the History of Medicine, Countway Library. (617) 432-6207, jack_eckert@hms.harvard.edu.*

“The Warren Anatomical Museum” presents over 13,000 rare and unusual objects, including anatomical and pathological specimens, medical instruments, anatomical models, and medical memorabilia of famous physicians. (Ongoing)
—*Warren Museum Exhibition Gallery, 5th floor, Countway Library. (617) 432-6196.*

Fine Arts Library
“An Invaluable Partner...’: From Fogg Museum Library to Fine Arts Library” presents a visual history of the collection from its beginnings in the 1927 Fogg building, through integration with Widener collections in 1962 and expansion into Werner Otto Hall in 1991. (Sept. 15-Jan. 15)
—*Fine Arts Library. (617) 496-1502, rsennett@fas.harvard.edu.*

Graduate School of Design
“Buon Compleanno a Voi” celebrates the 500th anniversary of the birth of Andrea Palladio (1508-1580). The exhibit includes editions of his influential “I Quattro Libri dell’Architettura” ... including the first edition, published in Venice in 1570, and the first complete translation into Russian issued in Moscow in 1936. (Through Sept. 30)
—*Special Collections Department, lower level, Frances Loeb Library, GSD, 48 Quincy St. Hours are Mon.-Fri., 1-4:45 p.m. www.gsd.harvard.edu.*

“New Trajectories: Contemporary Architecture in Croatia and Slovenia” features thirteen design practices highlighting new generations of Croatian and Slovenian architects, in transition from communist Yugoslavia to capitalist countries, who have developed exceptional work that is both innovative and charged with the legacy of their own architectural heritage. (Through Oct. 5)
—*Gund Hall Gallery, GSD, 48 Quincy St. Free. bkimg@gsd.harvard.edu, www.gsd.harvard.edu.*

Graduate School of Education
“Out of Time” features new mixed media paintings by Judith Brassard Brown, Montserrat College of Art. (Through Sept. 26)
—*Gutman Library, GSE. www.judith-brassardbrown.com, <http://gseweb.harvard.edu/library/index.html>.*

Harvard Art Museum
■ Sackler Museum
“Re-View” presents extensive selections from the Fogg, Busch-Reisinger,

and Sackler museums together for the first time. The survey features Western art from antiquity to the turn of the last century, Islamic and Asian art, and European and American art since 1900. (Opens Sept. 13)

—*The Fogg and Busch-Reisinger museums are located at 32 Quincy St. The Sackler Museum is located at 485 Broadway. The Harvard Art Museum is open Mon.-Sat., 10 a.m.-5 p.m.; Sun., 1-5 p.m. Admission is \$9; \$7 for senior citizens; \$6 for college students with ID; free to Harvard ID holders, Cambridge Public Library card holders, members, and to people under 18 years old; free to the public on Saturday mornings 10 a.m.-noon and every day after 4:30 p.m. General tours are held Mon.-Fri. The Fogg tour is at 11 a.m. The Busch-Reisinger tour is at 1 p.m. The Sackler tour is at 2 p.m. (617) 495-9400, www.harvardart-museum.org. **NOTE: The Fogg and Busch-Reisinger closed to the public on June 30 for a renovation project lasting approximately five years. The Sackler will remain open during the renovation.***

Harvard Law School
“The Expected and Unexpected: Harvard Law School Library’s Special Collections” features material drawn from all collecting areas in Special Collections to showcase both the expected (early editions of legal texts and correspondence of Law School faculty), as well as the unexpected (beautiful book bindings that once seemed commonplace and early printed decorative initials that range from the enchanting and winsome to the macabre). (Through Sept. 30)
—*Harvard Law School Library, Caspersen Room, Langdell Hall, 4th floor. Hours are Mon.-Fri., 9 a.m.-5 p.m. (617) 495-4550, www.law.harvard.edu/library/collections/special/exhibitions/index.php.*

Harvard Museum of Natural History
“Arthropods: Creatures that Rule” brings together unique fossils and preserved specimens, large screen video presentations, striking color photographs and images from scanning electron microscopes, hands-on interactive games, and live creatures. It presents arthropods’ long evolutionary history and the incredible variety of their habitats, and showcases a range of arthropod adaptations, including the evolution of wings and the remarkable capacity to mimic both their surroundings and other animals. (Ongoing)

“Climate Change: Our Global Experiment” offers a fascinating look at how scientists study climate change and at the evidence of global warming and the impact of human activity. Visitors are encouraged to apply what they’ve learned via a dynamic computer simulation that allows them to make choices about energy use for the nation and the world and evaluate the consequences. (Ongoing)

“Dodos, Trilobites, & Meteorites: Treasures of Nature and Science at Harvard” features hundreds of specimens documenting two centuries of scientific exploration, including a 42-foot long Kronosaurus skeleton, and the world’s largest turtle shell, over 7 feet long and 6 million years old. (Ongoing)

“Looking at Leaves: Photographs by Amanda Means” features dramatic black & white images of single leaves by New York photographer Amanda Means, a monument to the remarkable diversity and beauty of nature’s botanical forms. These detailed blow-ups were created by using the leaf itself in the same way as a photographic negative. The immediacy of the process gives the images an eerie intensity and adds to their compelling beauty. (Through Feb. 8, 2009)

“Mineral Gallery.” Over 5,000 minerals and gemstones on display including a 1,642 pound amethyst geode from Brazil. Touch meteorites from outer space. (Ongoing)

“Sea Creatures in Glass” features dozens of spectacular glass animals meticulously shaped and wired by artists Leopold and Rudolph Blaschka during the 19th century. Many of these glass marine animals are on display for the first time since Harvard’s acquisition of them in 1878. Combined with video, real scientific specimens, a recreation of the Blaschkas’ studio, and a rich assortment of memorabilia, these models of marine invertebrates offer intriguing insights into the history, personality, and artistry of the extraordinary men who created them. (Through Jan. 4, 2009)

“The Ware Collection of Glass Models of Plants” features the world famous “Glass Flowers” created over five decades by glass artists Leopold and

Calendar abbreviations

Where abbreviations appear in Calendar listings, the following list may be used to find the full name of the sponsoring organization.

Belfer Center for Science and International Affairs	BCSIA
Bunting Society of Institute Fellows	BSIF
Center for American Political Studies	CAPS
Center for European Studies	CES
Center for Government and International Studies	CGIS
Center for Jewish Studies	CJS
Center for Middle Eastern Studies	CMES
Center for Population and Development Studies	CPDS
Center for Quality of Care Research and Education	QCARE
Center for the Study of Values in Public Life	CSVPL
Center for the Study of World Religions	CSWR
Committee for the Concerns of Women at Harvard-Radcliffe	CCW
Committee on African Studies	CAS
Committee on Degrees in Women’s Studies	CDWS
Committee on Inner-Asian and Altaic Studies	CIAAS
Committee on Iranian Studies	CIS
David Rockefeller Center for Latin American Studies	DRCLAS
Division of Biological Sciences	DBS
Division of Health Sciences and Technology	DHST
East Asian Legal Studies Program	EALS
Graduate School of Design	GSD
Graduate School of Education	GSE
Harvard AIDS Institute	HAI
Harvard Art Museum	HAM
Harvard Buddhist Studies Forum	HBSF
Harvard College Library	HCL
Harvard Divinity School	HDS
Harvard Education Forum	HEF
Harvard Family Research Project	HFRP
Harvard Film Archive	HFA
Harvard Foundation for Intercultural and Race Relations	HFIRR
Harvard Gay and Lesbian Caucus	HGLC
Harvard Institute for International Development	HIID
Harvard International Office	HIO
Harvard Law School	HLS
Harvard Medical School	HMS
Harvard Museum of Natural History	HMNH
Harvard School of Dental Medicine	HSDM
Harvard School of Public Health	HSPH
Harvard-Smithsonian Center for Astrophysics	CfA
Harvard University Center for the Environment	HUCE
Institute of Politics	IOP
Kennedy School of Government	HKS
Law School Human Rights Program	LSHRP
Law School Program in Jewish Studies	LSPJS
Office for Information Technology	OIT
Office of International Education	OIE
Office of Work and Family	OWF
Philosophy of Education Research Center	PERC
Program on Information Resources Policy	PIRP
Program on International Conflict Analysis and Resolution	PICAR
Program on Nonviolent Sanctions and Cultural Survival	PNSCS
Program on U.S.-Japan Relations	USJRP
School of Engineering and Applied Sciences	SEAS
Technology & Entrepreneurship Center at Harvard	TECH
Trade Union Program	TUP
Ukrainian Research Institute	URI
United Ministry	UM
Weatherhead Center for International Affairs	WCFA

Rudolph Blaschka, 3,000 glass models of 847 plant species. (Ongoing)
—*The Harvard Museum of Natural History is located at 26 Oxford St. Public entrances to the museum are located between 24 and 26 Oxford St. and at 11 Divinity Ave. Open daily, 9 a.m.-5 p.m.; Closed Jan. 1, Thanksgiving Day, Dec. 24, and Dec. 25. Admission is \$9 for adults; \$7 for senior citizens and students; \$6 for children 3 to 18 years old; free for children under 3 years old. Group rates available with advance reservations; call (617) 495-2341. Free admission (for Massachusetts residents only) on Sun. mornings 9 a.m.-noon, except for groups, and free admission on Wed. afternoons, Sept.-May, 3-5 p.m. Free admission with a Bank of America credit card on the first full weekend of every month. (617) 495-3045, www.hmn.harvard.edu.*

Holyoke Center

“People and Places” features photographs by Jeanne Ramalho that represent some of her favorite moments in places she’s been, as well as some of her favorite people. (Sept. 12-Oct. 8)
—*Holyoke Center Exhibition Space, Holyoke Center Arcade, 1350 Mass. Ave. Mon.-Fri., 8 a.m.-7:30 p.m.; Sat.-Sun., 9 a.m.-6 p.m. Free and open to the public. (617) 495-5214.*

Houghton Library

“‘His Name Stuck to Every Greatness’: Harvard University’s Charles Eliot Norton” is a small centennial exhibition celebrating Norton’s library, which came to Harvard at his death, and the subscription fund raised by 581 graduates, the income from which is used to add to this famous collection of books and manuscripts. (Through Oct. 18)
—*Amy Lowell Room, Houghton Library. (617) 495-2441.*

“To Promote, To Learn, To Teach, To Please: Scientific Images in Early Modern Books” illustrates how images in early modern European books of science (1500-1750) were shaped not only by the needs of scientific communication but also by economic, social, and cultural considerations. Representative examples examine physical evidence both in the images themselves and in the books they illustrated. Opening reception Tue., Sept. 16, 5-7 p.m. (Sept. 2-Dec. 20)
—*Edison and Newman Room, Houghton Library. (617) 495-2444.*

Lamont Library

“2007-08 Winners of the Visiting Committee Prize for Undergraduate Book Collecting and The Philip Hofer Prize for Art and Book Collecting” features samplings of the prize-winning collections, along with personal commentary. (Through May 2009)
—*Lamont Library, second and third floors. (617) 495-2455.*

Landscape Institute

“Splendid Trees of the Arnold Arboretum” features hand-painted photographs by Maria Muller. Reception Thu., Sept. 11, 5-6:30 p.m. RSVP to landscape@arnarb.harvard.edu. (Through Sept. 19)
—*Landscape Institute, 30 Chauncy St. Hours are Mon.-Thu., 9 a.m.-6:30 p.m.; Fri., 9 a.m.-5 p.m..*

Peabody Museum

“Change and Continuity: Hall of the North American Indian” explores how native peoples across the continent responded to the arrival of Europeans. (Ongoing)

“Encounters with the Americas”

explores native cultures of Mesoamerica before and after Spanish contact. It features original sculpture and plaster casts of Maya monuments as well as contemporary textiles from the Americas. (Ongoing)

“Fragile Memories: Images of Archaeology and Community at Copan, 1891-1900” presents the written and visual records of early expeditions to remote areas of Mexico and Central America, and the results of a two-year project to digitize more than 10,000 nineteenth century glass-plate negatives from those trips. (Through March 2009)

“From Nation to Nation: Examining Lewis and Clark’s Indian Collection” explores the only known surviving Indian objects brought back by Lewis and Clark and what they tell us about Lewis and Clark’s journey and the nations they encountered. (Through Sept. 29)

“Pacific Islands Hall” features a diverse array of artifacts brought to the museum by Boston’s maritime trade merchants. (Ongoing)

“Remembering Awatovi: The Story of an Archaeological Expedition in Northern Arizona, 1935-1939” goes behind the scenes of the last archaeological expedition of its kind at an ancient site sacred to the Hopi people. Part history of archaeology and part social history, the exhibit reveals what the archaeologists found in the village of Awatovi with its beautiful kiva murals and Spanish mission church, and how the archaeologists lived in “New Awatovi,” the camp they built for themselves beside the dig. The written and photographic records of “New Awatovi” add a new dimension to the discoveries of the dig itself. There will be an opening reception and booksigning Thu., Sept. 25, 5-7 p.m. See also Tozzer Library. (Sept. 25-March 30)

“REMIX: Indigenous Identities in the 21st Century” features the works of four visual artists — Doug Miles, Ryan Red Corn, Courtney Leonard, and Bunky Echo-Hawk — and rapper Quese IMC, who have embraced the ethos of modern Native American heritage, transforming traditional materials, ideas and iconography into powerful contemporary art. (Through Oct. 19)

“Storied Walls: Murals of the Americas” explores the spectacular wall paintings from the ancestral Hopi village kivas of Awatovi in Arizona; San Bartolo and Bonampak in Guatemala and Mexico respectively; and the Moche huacas of northern Peru. (Through Dec. 31, 2009)

—*The Peabody Museum is located at 11 Divinity Ave. Open daily, 9 a.m.-5 p.m. Admission is \$9 for adults; \$7 for senior citizens and students; \$6 for children 3 to 18 years old; free for children under 3 years old. Free admission (for Massachusetts residents only) on Sun. mornings 9 a.m.-noon, except for groups, and free admission on Wed. afternoons, Sept.-May, 3-5 p.m. The Peabody Museum is closed Jan. 1, Thanksgiving Day, Dec. 24, and Dec. 25. (617) 496-1027, www.peabody.harvard.edu.*

Pusey Library

“From the Amazon to the Volga: The Cartographic Representation of Rivers” examines how mapmakers from the 15th century to the early 20th century sought to measure, track, and frame some of the major rivers of the world, including the Tigris and Euphrates, Amazon, Don, Danube, Nile, Congo, Rhine, Volga, and Mississippi. (Sept. 24-Jan. 30)
—*Map Gallery Hall, Pusey Library. (617) 495-2417.*

“Theodore Roosevelt in Cartoon: The Verdict, 1898-1900.” (Through September 2008)
—*Theodore Roosevelt Gallery, Pusey Library. Mon.-Fri., 9 a.m.-4:45 p.m. (617) 384-7938.*

Semitic Museum

“Ancient Cyprus: The Cesnola

Collection at the Semitic Museum” comprises vessels, figurines, bronzes, and other artifacts dating from 2000 B.C. to 300 A.D. (Ongoing)

“Ancient Egypt: Magic and the Afterlife” introduces visitors to the Egyptian view of life after death through coffins, amulets, and funerary inscriptions. (Ongoing)

“The Houses of Ancient Israel: Domestic, Royal, Divine” is devoted to everyday life in Iron Age Israel (ca. 1200-600 BCE). Featured in the exhibit is a full-scale replica of a fully furnished, two-story village house. (Ongoing)

“Nuzi and the Hurrians: Fragments from a Forgotten Past” features over 100 objects detailing everyday life in Nuzi, which was located in Northeastern Iraq around 1400 B.C. (Ongoing)
—*Semitic Museum, 6 Divinity Ave. Open Mon.-Fri., 10 a.m.-4 p.m.; Sun., 1-4 p.m. Closed holiday weekends. Admission is free. (617) 495-4631.*

Tozzer Library

“Remembering Awatovi: The Story of an Archaeological Expedition in Northern Arizona, 1935-1939” goes behind the scenes of the last archaeological expedition of its kind at an ancient site sacred to the Hopi people. Part history of archaeology and part social history, the exhibit reveals what the archaeologists found in the village of Awatovi with its beautiful kiva murals and Spanish mission church, and how the archaeologists lived in “New Awatovi,” the camp they built for themselves beside the dig. The written and photographic records of “New Awatovi” add a new dimension to the discoveries of the dig itself. There will be an opening reception and booksigning Thu., Sept. 25, 5-7 p.m. See also Peabody Museum. (Sept. 25-March 30)
—*Tozzer Library Gallery, 21 Divinity Ave. (617) 495-2292, http://hcl.harvard.edu/libraries/#tozzer.*

lectures

art/design

Thu., Sept. 18—**“Audubon: The Early Drawings.”** (HMNH) Lecture and book-signing by Scott Edwards and Leslie Morris, Harvard University. HMNH, 26 Oxford St., 6 p.m. Free and open to the public. (617) 495-2773, www.hmn.harvard.edu.

Sat., Sept. 20—**“Renaissance Responses to Antiquity: From Titian to Bernini.”** (HAM) Amy Brauer and Antien Knaap, Harvard Art Museum. Sackler Museum, 11:30 a.m. Free admission. (617) 495-9400, www.harvardartmuseum.org. See also special events.

Sat., Sept. 20—**“Semitic Museum Half-hour Tours.”** (Semitic Museum) “Houses of Ancient Israel” at 11:30 a.m. and “Ancient Egypt” at 2:30 p.m. Semitic Museum, 6 Divinity Ave. Free admission. (617) 495-4631, www.fas.harvard.edu/~semitic. See below and special events.

Sun., Sept. 21—**“Semitic Museum Half-hour Tours.”** (Semitic Museum) “Ancient Egypt” at 11:30 a.m. and “Houses of Ancient Israel” at 2:30 p.m. Semitic Museum, 6 Divinity Ave. Free admission. (617) 495-4631, www.fas.harvard.edu/~semitic. See above and special events.

Mon., Sept. 22—**“Eyes Upside Down: An Illustrated Lecture by P. Adams Sitney.”** (Harvard Film Archive) P. Adams Sitney, authority on American avant-garde cinema. Harvard Film Archive, 24 Quincy St., 7 p.m. Admission is \$10. http://hcl.harvard.edu/hfa.

business/law

Fri., Sept. 12—**“Japanese Company**

Scandals: Japanese Employees Steal For the Company But Not From the Company.” (EALS) Noboru Kashiwagi, Chuo Law School and visiting scholar, EALS. Room 419, Pound Hall, HLS, 1563 Mass. Ave., noon. (617) 495-4614.

Wed., Sept. 24—**“Debate: Human Dignity and Bioethics.”** (Petrie-Flom Center, HLS, President’s Council on Bioethics) Panelists include Martha Nussbaum, University of Chicago Law School; Edmund Pellegrino, President’s Council on Bioethics and Center for Clinical Medical Ethics, Georgetown University Medical Center; and moderator J. Glenn Cohen, HLS, Petrie-Flom Center. Austin North Classroom, HLS, 5 p.m. Open to the public. (617) 496-4662, rdawes@law.harvard.edu, www.law.harvard.edu/programs/petrie-flom.

conferences

Fri., Sept. 12-Sat., Sept. 13—**“Historical Dialogue and Reconciliation in East Asia: Recent Practice and Future Prospects.”** (Harvard-Yenching Institute, Sasakawa Peace Foundation, Reischauer Institute, Fairbank Center, Asia Center) Tsai Auditorium, CGIS South, 1730 Cambridge St., Fri.: 1:30-5:30 p.m.; Sat.: 9 a.m.-5 p.m. Free and open to the public. To register, e-mail stro-gatz@fas.harvard.edu. http://gist.fas.harvard.edu/HYI/?q=content/historical-dialogue-and-reconciliation-east-asia.

Tue., Sept. 23-Thu., Sept. 25—**2008 Annual Genomics Conference. “Emerging Quantitative Issues in Parallel Sequencing.”** (HMS, Program in Quantitative Genomics, HSPH, and others) Joseph B. Martin Conference Center, HMS, Tue.: 7-9 p.m.; Wed.: 8 a.m.-6:30 p.m.; and Thu.: 9 a.m.-3:45 p.m. (617) 432-7449, sandelma@hsph.harvard.edu. To register and submit an abstract: www.hsph.harvard.edu/research/pqg-annual-conference/index.html.

environmental sciences

Mon., Sept. 15—**“The Mounting Crisis in Climate Policy and What To Do About It.”** (HKS) Gwyn Prins, London School of Economics. Fainsod Room, Littauer 324, HKS, 79 JFK St., 9:30 a.m. (617) 495-8693.

Wed., Sept. 24—**“Toxic Exposure in America: Estimating Fetal and Infant Health Outcomes.”** (HKS) Nikhil Agarwal, Harvard University; Chanont Banterngphansa, Federal Reserve Bank of St. Louis; and Linda Bui, Brandeis University. Room L-382, HKS, 79 JFK St., 4:10 p.m. (617) 496-8054, http://isites.harvard.edu/icb/icb.do?keyword=k40206.

ethics

Wed., Sept. 17—**“Health and Human Rights: Creating an Open Forum To Advance Global Health and Social Justice.”** (HSPH, HLS, and others) Paul Farmer and Jim Yong Kim of Partners In Health introduce Philip Alston, NYU Law School; Agnes Binagwaho, Rwanda’s National AIDS Control Commission; and Gavin Yamey, PLoS Medicine. Loeb Drama Center, A.R.T., 64 Brattle St., 3 p.m. Free and open to the public. mszperka@hsph.harvard.edu, www.hhrjournal.org.

Wed., Sept. 24—**“Debate: Human Dignity and Bioethics.”** (Petrie-Flom Center, HLS, President’s Council on Bioethics) Panelists include Martha Nussbaum, University of Chicago Law School; Edmund Pellegrino, President’s Council on Bioethics and Center for Clinical Medical Ethics, Georgetown University Medical Center; and moderator J. Glenn Cohen, HLS, Petrie-Flom Center. Austin North Classroom, HLS, 5 p.m. Open to the public. (617) 496-4662, rdawes@law.harvard.edu, www.law.harvard.edu/programs/petrie-flom.

health sciences

Medical School

Tue., Sept. 16—**“Heredity and Hope: The Case for Genetic Screening.”** (HMS, Countway Library) Ruth Schwartz Cowan, University of Pennsylvania. Minot Room, 5th floor, Countway Library, HMS, 10 Shattuck St., 4:30 p.m.; booksigning and reception in the Lahey Room, 5th floor, 5:30 p.m. rvo-gel@hms.harvard.edu.

Harvard School of Public Health

Thu., Sept. 11—**“Targeting Concurrent Sexual Partnerships for HIV Prevention: The Case of Likoma Island (Malawi).”** (HSPH) Stéphane HELLERINGER, University of Pennsylvania. 12th floor conference room, Building 1, HSPH, 12:30 p.m. mozolins@hsph.harvard.edu.

Tue., Sept. 16—**“Malaria Epidemiology in the Real World: A Health Systems View.”** (HSPH) Wendy Prudhomme O’Meara, National Institutes of Health. 12th floor conference room, Building 1, HSPH, 12:30 p.m. mozolins@hsph.harvard.edu.

Wed., Sept. 17—**“Health and Human Rights: Creating an Open Forum To Advance Global Health and Social Justice.”** (HSPH, HLS, and others) Paul Farmer and Jim Yong Kim of Partners In Health introduce Philip Alston, NYU Law School; Agnes Binagwaho, Rwanda’s National AIDS Control Commission; and Gavin Yamey, PLoS Medicine. Loeb Drama Center, A.R.T., 64 Brattle St., 3 p.m. Free and open to the public. mszperka@hsph.harvard.edu, www.hhrjournal.org.

Thu., Sept. 18—**“Using a Test of Recent Infection To Estimate HIV Incidence: An Epidemiological Validation Study in Rural Africa.”** (HSPH) Till Bärnighausen, University of KwaZulu-Natal, South Africa. 12th floor conference room, Building 1, HSPH, 12:30 p.m. mozolins@hsph.harvard.edu.

Fri., Sept. 19—**“Mortality, Morbidity, Immunization Coverage and Distance to Health Facilities in Kilifi District, Kenya.”** (HSPH) Jennifer Moisi. 12th floor conference room, Building 1, HSPH, 12:30 p.m. mozolins@hsph.harvard.edu.

Sat., Sept. 20—**“Prospective Student Information Session.”** (HSPH Admissions Office) Admissions Office, HSPH, 10 a.m.-1 p.m. RSVP at www.hsph.harvard.edu/meet-a-representative. More information at (617) 432-1031 or admisofc@hsph.harvard.edu.

Tue., Sept. 23—**“Autophagy in Lung Disease: Regulation and Function.”** (Molecular and Integrative Physiological Sciences) Augustine Choi, Brigham & Women’s Hospital. Room 1302, Building 1, HSPH, 665 Huntington Ave., 9:30 a.m.

humanities

Mon., Sept. 22—**“Eyes Upside Down: An Illustrated Lecture by P. Adams Sitney.”** (Harvard Film Archive) P. Adams Sitney, authority on American avant-garde cinema. Harvard Film Archive, 24 Quincy St., 7 p.m. Admission is \$10. http://hcl.harvard.edu/hfa.

Thu., Sept. 18—**“Observatory Night Astronomy Lecture.”** (CfA) Richard Bond, winner of the 2008 Cosmology Prize from the Gruber Foundation. Phillips Auditorium, CfA, 60 Garden St., 7:30 p.m. (617) 495-7461, www.cfa.harvard.edu.

poetry/prose

Tue., Sept. 30—**“A Poetry Reading by Seamus Heaney.”** (English) Seamus Heaney, poet, Nobel laureate. Sanders

(Continued on next page)

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Theatre, 4:30 p.m. Free and open to the public. Free tickets (limit four per person and valid until 4:15 p.m.) available through the Harvard Box Office (617-496-2222) beginning Sept. 16.

science

Sat., Sept. 13—“**Superdove: How the Pigeon Took Manhattan and the World.**” (HMNH) Courtney Humphries, author. HMNH, 26 Oxford St., 2 p.m. Free with admission. (617) 495-2773, www.hmnh.harvard.edu.

Thu., Sept. 18—“**Audubon: The Early Drawings.**” (HMNH) Lecture and book-signing by Scott Edwards and Leslie Morris, Harvard University. HMNH, 26 Oxford St., 6 p.m. Free and open to the public. (617) 495-2773, www.hmnh.harvard.edu.

Thu., Sept. 18—“**Tales of Science and Love.**” (Cambridge Forum) Lynn Margulis, evolutionist. First Parish, 3 Church St., 7:30 p.m. Reception at 6:30 p.m. Booksigning to follow. Free and open to the public.

Thu., Sept. 25—“**Nature’s Palette: The Biological Significance of Color.**” (HMNH) Exhibit opening lecture by Hopi Hoekstra, Museum of Comparative Zoology. HMNH, 26 Oxford St., 6 p.m. Free and open to the public. www.hmnh.harvard.edu.

social sciences

Mon., Sept. 15—“**Organizational Meeting for the Post-Communist Politics and Economics Workshop.**” (Davis Center) Room S354, 3rd floor, 1730 Cambridge St., 12:15 p.m. www.daviscenter.fas.harvard.edu.

Wed., Sept. 17—“**Turkey and the Gulf: A New Romance?**” (WCFA/CMES) Lenore G. Martin, Emmanuel College, WCFA, and CMES. Room N262, CGIS Knafel Building, 1737 Cambridge St., 4:30 p.m.

Wed., Sept. 17—“**Health and Human Rights: Creating an Open Forum To Advance Global Health and Social Justice.**” (HSPH, HLS, and others) Paul Farmer and Jim Yong Kim of Partners In Health introduce Philip Alston, NYU Law School; Agnes Binagwaho, Rwanda’s National AIDS Control Commission; and Gavin Yamey, PLoS Medicine. Loeb Drama Center, A.R.T., 64 Brattle St., 3 p.m. Free and open to the public. mszperka@hsph.harvard.edu, www.hhrjournal.org.

Thu., Sept. 18—“**Coexistence in Israel: Report on a National Study of Jewish-Arab Relations.**” (WCFA/CMES) Todd Pittinsky, HKS. Room N262, CGIS North, Knafel Building, 1737 Cambridge St., 4 p.m.

Fri., Sept. 19—“**Governance vs. Laissez-faire in Rebuilding New Orleans.**” (HKS, Belfer Center, Shorenstein Center,) Jed Horne, author and former city editor, The Times Picayune. Fainsod Room, 3rd floor, Littauer Building, HKS, noon. (617) 496-6230.

Wed., Sept. 24—“**Europeanization of Turkish State Ideology: Kemalism in the 21st Century.**” (WCFA/CMES) Ali Tekin, Bilkent University and visiting scholar, CES. Room N262, CGIS Knafel Building, 1737 Cambridge St., 4:30 p.m.

classes etc.

Arnold Arboretum offers a series of classes for the general public. (617) 384-5209, arbweb@arnarb.harvard.edu, www.arboretum.harvard.edu.

■ **Volunteer opportunities:** Share your love of trees and nature — volunteer as a School Program Guide at the Arnold Arboretum. You will be trained to lead science programs in the

Arboretum landscape with elementary school groups. (617) 384-5239, www.arboretum.harvard.edu/programs/fieldstudy_guides.html.

■ **Free walking tours:** Come and explore the collections on a free guided tour led by knowledgeable volunteer docents on select Wednesdays, Saturdays, and Sundays through November. Times vary. All tours begin in front of the Hunnewell Building Visitor Center, 125 Arborway, and last approximately 60-90 minutes. No registration necessary. (617) 524-1718 x100, www.arboretum.harvard.edu/visitors/tours.html.

Families can also take a self-guided tour with a plant treasure map from the Hunnewell Building or www.arboretum.harvard.edu.

The **Center for Workplace Development** offers a wide variety of professional development courses, career development workshops, consulting services, and computer classes to Harvard employees. State-of-the-art training and conference rooms are available to rent at CWD’s 124 Mt. Auburn St. location as well. Go to http://harvie.harvard.edu/learning/cwd to view a complete list of programs and services, or contact CWD at (617) 495-4895 or training@harvard.edu.

Committee on the Concerns of Women at Harvard holds meetings throughout the year. E-mail ccw@harvard.edu for registration and details.

CPR and First Aid Programs. Call (617) 495-1771 to register.

Environmental Health and Safety (Harvard Longwood Campus) safety seminars/orientation for Medical Area lab researchers are offered on the third Thursday of each month, noon-2:30 p.m. Topics include: Laboratory Safety, Bloodborne Pathogens, Hazardous Waste. (617) 432-1720, www.uos.harvard.edu/ehs. Beverages provided.

The **Harvard Art Museum** presents a series of public seminars and special programs. All programs require a fee and most require advance registration. See each program for details. Discounts are available for Friend members of the Art Museums. For more information, advance registration, or information on how to become a Friend, call (617) 495-4544. www.harvardartmuseum.org. See also lectures, art/design.

Harvard Ballroom dance classes are offered by the Harvard Ballroom Dance Team throughout the year. Salsa, Swing, Waltz, Tango, Foxtrot, Rumba, and Cha Cha are just some of the dances you can learn. No partner or experience is necessary. For more information, including class descriptions and pricing, visit www.harvardballroom.org.

Harvard Course in Reading and Study Strategies offered by the Bureau of Study Counsel. Through readings, films, and classroom exercises, students learn to read more purposively, selectively, and with greater speed and comprehension. A 14-day course for one hour/day over a period of a few weeks. Cost is \$150. Fall sessions will be held Oct. 14-Nov. 6, Mon., Tue., Thu., Fri., 4 p.m.; and Oct. 15-Nov. 14, Mon., Wed., Fri., 8 a.m. Call (617) 495-2581 or come to the Bureau of Study Counsel, 5 Linden St., to register or for more information. http://bsc.harvard.edu/.

Harvard Extension School Career and Academic Resource Center. (617) 495-9413, ouchida@hudce.harvard.edu.

Harvard Green Campus Initiative offers classes, lectures, and more. Visit www.greencampus.harvard.edu for details.

Harvard Medical School’s Research Imaging Solutions at Countway. (617) 432-7472, ris@hms.harvard.edu, http://it.med.harvard.edu/pg.asp?pn=ris_index.

Harvard Museum of Natural History offers a variety of programs based on the Museum’s diverse exhibits. The entrance for all programs is 26 Oxford St. **Enrollment is limited, and advance registration is required.** Sign up for three or more classes and get an extra 10 percent off. Wheelchair accessible. (617) 495-2341, www.hmnh.harvard.edu.

■ **Volunteer opportunity** HMNH seeks volunteers who are enthusiastic about natural history and would enjoy sharing that excitement with adults and children. No special qualifications required. Training is provided. Just one morning or afternoon per week or weekend required. More info: volunteers@oeb.harvard.edu.

■ **Ongoing programs** **Discovery Stations** in “Arthropods: Creatures that Rule” let you observe and learn about live animals, artifacts, and specimens, while **Gallery Guides** answer questions and help visitors learn about the natural world. Wednesday afternoons, Saturday, and Sunday. General museum admission.

Nature Storytime features readings of stories and poems for kids ages 6 and under. Saturdays and Sundays, 11 a.m. and 2 p.m.

■ **Special events** Sat., Sept. 13—“**Superdove: How the Pigeon Took Manhattan and the World.**” Courtney Humphries, author. HMNH, 26 Oxford St., 2 p.m. Free with admission. (617) 495-2773.

Thu., Sept. 18—“**Audubon: The Early Drawings.**” Lecture and book-signing by Scott Edwards and Leslie Morris, Harvard University. HMNH, 26 Oxford St., 6 p.m. Free and open to the public. (617) 495-2773.

Sun., Sept. 21—“**Harvard Museum of Natural History Community Day.**” Hands-on activities, live animals, exhibits. “Nature Storytime” at 11 a.m. and 2 p.m. HMNH, 26 Oxford St., 9 a.m.-5 p.m. Free admission. (617) 495-3045.

Thu., Sept. 25—“**Nature’s Palette: The Biological Significance of Color.**” Exhibit opening lecture by Hopi Hoekstra, Museum of Comparative Zoology. HMNH, 26 Oxford St., 6 p.m. Free and open to the public.

Harvard Neighbors offers a variety of programs and events for the Harvard community. (617) 495-4313, neighbors@harvard.edu, www.neighbors.harvard.edu.

The **Harvard-Radcliffe Chorus** will hold auditions for all voice parts. Rehearsals are Mondays, 7-10 p.m. The audition consists of scales, ear, and pitch memory exercises and sight-reading. Auditions are on a first-come, first-served basis and take about 10 minutes each. A prepared piece is not required. (617) 495-0693, kleong@fas.harvard.edu, www.hcs.harvard.edu/~hrc/.

■ **Sat., Sept. 13:** Lowell Lecture Hall, corner of Oxford and Kirkland streets, 1-5 p.m.

■ **Sun., Sept. 14:** Lowell Lecture Hall, corner of Oxford and Kirkland streets, 6-10 p.m.

The Landscape Institute, 30 Chauncy St., 1st floor. (617) 495-8632, landscape@arnarb.harvard.edu, www.landscape.arboretum.harvard.edu.

■ **Fall/winter registration is open:** Classes began Sept. 8 for fall semester and will begin Nov. 6 for winter semester. Winter early registration deadline is Oct. 10. Registration is first-come, first-served.

■ **Wed., Sept. 17—“A Sustainable Landscape in China.”** Scott Carman, Rhode Island School of Design. Landscape Institute, 30 Chauncy St., 6 p.m. Reception at 5 p.m. Admission is \$5 general; free to NELDHA members. DesignNetwork@neldha.org.

■ **Sat., Sept. 20—“An Introduction to the Arnold Arboretum Horticultural Library.”** Library, Arnold Arboretum. Free. Register at http://arboretum.harvard.edu/landinst/reg_courses.php.

■ **Sun., Sept. 21—“Touring Urban Wilds and Gardens: On the Bus with COGDesign.”** 1-4:30 p.m. Fee: \$40 (includes bus tour and afternoon tea). Pre-registration required: www.cogdesign.org. (781) 642-6662, info@cogdesign.org.

■ **Thu., Sept. 25—“Going Green: Constructing an Environmentally Engineered Home and Landscape.”** Marie Stella, Landscape Institute. Landscape Institute, 30 Chauncy St., 6 p.m. RSVP to landscape@arnarb.harvard.edu by Sept. 19.

Office for the Arts offers several extracurricular classes designed to enhance the undergraduate experience. (617) 495-8676, www.fas.harvard.edu/~ofa.

Office for the Arts, Ceramics Program provides a creative learning environment for a dynamic mix of Harvard students, staff and faculty, professional artists, and the greater Boston and international community. www.fas.harvard.edu/ceramics.

■ **Fall Term 2008** courses, visiting artist master classes, and firing workshops begin the week of Sept. 22. Registration forms and course information are available at www.fas.harvard.edu/ceramics.

Office of Work/Life Resources. All programs meet noon-1 p.m. unless otherwise noted. Various places. Register for workshops at http://harvie.harvard.edu/courses/display.do?value(application_id)=3. Call (617) 495-4100 or e-mail worklife@harvard.edu with questions. See also support/social listings. http://harvie.harvard.edu/workandlife.

Office of Work and Family (Longwood Area). All programs meet noon-1:30 p.m. unless otherwise noted. Various places. Feel free to bring a lunch. (617) 432-1615, barbara_wolf@hms.harvard.edu, www.hms.harvard.edu/hr/owf.html.

Records Management Office, part of the Harvard University Archives, offers important workshops to help staff in charge of keeping the University’s files in order. (617) 495-5961, rmo@hul-mail.harvard.edu, http://hul.harvard.edu/rmo.

SPH Courses in Continuing Education. Locations vary. (617) 432-1171, contedu@sph.harvard.edu for details.

computer

The **Center for Workplace Development** offers computer-training classes that are open to the Harvard community and affiliates. Classes range from introductory workshops to all levels of word processing, spreadsheets, databases, desktop publishing, and Web development. To learn more, go to http://harvie.harvard.edu/learning/cwd or contact CWD at (617) 495-4895 or training@harvard.edu.

Harvard’s **Computer Product & Repair Center** has walk-in hours Mon.-Thu., 10 a.m.-6 p.m.; Fri., 9 a.m.-5 p.m. Science Center B11. (617) 495-5450, www.computers.harvard.edu.

The Harvard College Library offers hands-on instruction in using the HOLIS Portal Page (the Web gateway to over 1,300 electronic resources), the HOLLIS Catalog (for materials owned by Harvard libraries), and Advanced HOLLIS subject sections each semester. http://hcl.harvard.edu/widener/services/research/hollis_instruction.html.

special events

Sat., Sept. 20—“**Harvard Art Museum Community Day.**” (HAM) Sackler Museum, 10 a.m.-5 p.m. Free admission. (617) 495-9400, www.harvardartmuseum.org. See lectures, art/design, for related gallery talk.

Sat., Sept. 20-Sun., Sept. 21—“**Harvard Semitic Museum Community Day.**” (Semitic Museum) Guides in the galleries to answer questions. Half-hour tours at 11:30 a.m. and 2:30 p.m.; see art/design. Semitic Museum, 6 Divinity Ave., 11 a.m.-5 p.m. Free admission. (617) 495-4631, www.fas.harvard.edu/~semitic.

Sun., Sept. 21—“**Harvard Museum of Natural History Community Day.**” (HMNH) Hands-on activities, live animals, exhibits. “Nature Storytime” at 11 a.m. and 2 p.m. HMNH, 26 Oxford St., 9 a.m.-5 p.m. Free admission. (617) 495-3045, www.hmnh.harvard.edu.

Sun., Sept. 21—“**Peabody Museum Community Day.**” (Peabody Museum) Ethnic dance and story time in the galleries: Mexican folk dances at 1 and 2 p.m.; story time at 1:30 and 2:30 p.m. Peabody Museum, 11 Divinity Ave., 9 a.m.-5 p.m. Free admission. (617) 496-1027, www.peabody.harvard.edu.

Sun., Sept. 21—“**RiverSing: Bridging the Charles with Voice and Light.**” A celebration of the autumnal equinox. Weeks Footbridge, 6 p.m. Free and open to the public. (617) 972-8300, RiverSing08@yahoo.com, www.revels.org, www.thecharles.org.

fitness

Harvard Wellness Programs For a recorded listing of programs, (617) 495-1771. For a registration form, (617) 495-9629, www.huhs.harvard.edu.

Massage Therapy, 1-Hour Appointments One-hour appointments with Licensed Massage Therapists Mondays-Fridays, afternoon and evening appointments, limited morning appointments Saturdays, morning, afternoon, and evening appointments Sundays, morning and afternoon appointments 75 Mt. Auburn St., HUHS Call (617) 495-9629 to arrange Fee is \$60/hr; \$40/hr for HUGHP members

Massage Therapy, 1/2-Hour Appointments 1/2-hour appointments with Licensed Massage Therapists Wednesdays and Thursdays, 9 a.m.-noon 75 Mt. Auburn St., 2E, HUHS Call (617) 495-9629 to arrange Fee is \$37/half-hr; \$25/half-hr for HUGHP members

Lunchtime Massage Therapy Break at HUHS Ten-minute appointments with Licensed Massage Therapists Mondays, noon-2 p.m. at the HUHS Pharmacy in Holyoke Center Wednesdays, 11 a.m.-2 p.m. at CWHC, 2E, HUHS Thursdays, 5:30-7:30 p.m. at Hemenway Gym Fridays from 11 a.m.-2 p.m. at the HUHS Pharmacy in Holyoke Center Call (617) 495-9629 to arrange Fee is \$10/10 minutes

On-Site Massage Therapy or Shiatsu 10-minute appointments with Licensed Massage Therapists Call (617) 495-9629 to arrange Fee is \$10 per person for 10 minutes; minimum of six people



Shiatsu (Acupressure)

One-hour appointments with Karl Berger, OBT, LMT
Mondays, 6, 7, and 8 p.m.
75 Mt. Auburn St., 5th floor, HUHS
Call (617) 495-9629 to arrange
Fee is \$60/hr; \$40/hr for HUGHP members

Reiki

One-hour appointments with Farris Ajalat, Judy Partington, & Lisa Santoro, LMTs
Tuesdays, Wednesdays, Thursdays, Saturdays
75 Mt. Auburn St., 2E, HUHS
Call (617) 495-9629 to arrange
Fee is \$60/hr; \$40/hr for HUGHP members

Active Release Technique (ART)

One-hour appointments with a Licensed Massage Therapist
Sundays and Mondays, mid-day, afternoon and evening appointments
75 Mt. Auburn St., 2E, HUHS
Call (617) 495-9629 to arrange
Fee is \$60/hr; \$40/hr for HUGHP members

Acupuncture, 1-Hour Appointments

One-hour appointments with Jeffrey Matrician, Lic. Ac.
Tuesdays and Fridays, morning and afternoon appointments
75 Mt. Auburn St., 2E, HUHS
Call (617) 495-9629 to arrange (clinical clearance required)
Fee is \$75/hr; \$40/hr for HUGHP members

Tobacco Cessation Classes are offered weekly at the Dana-Farber Cancer Institute, dates and times may vary. Fee: \$10 per class, and nicotine patches are available at a discounted rate. (617) 632-2099.

Weight Watchers at Work classes are available. (617) 495-9629.

religion

The Memorial Church

Harvard Yard (617) 495-5508
www.memorialchurch.harvard.edu
Handicapped accessible

Sunday Services

During the academic year, Sunday services are broadcast on Harvard's radio station, WHRB 95.3 FM. For those outside the Cambridge area, WHRB provides live Internet streaming from its Web site at www.whrb.org. Services take place at 11 a.m.
Sept. 14—The Rev. Peter J. Gomes, Plummer Professor of Christian Morals and Pusey Minister in the Memorial Church
Sept. 21—The Rev. Dr. Barbara Brown Taylor, Piedmont College

Morning Prayers

A service of Morning Prayers has been

held daily at Harvard since its founding in 1636, and continues to be held in Appleton Chapel from 8:45-9 a.m., Mon.-Sat. A brief address is given by members and friends of the University, with music provided by the Choral Fellows of the Harvard University Choir. On Saturdays, the music is provided by soloists, small ensembles, or instrumentalists. This service, designed to enable students and faculty to attend 9 a.m. classes, is open to all.
Mon., Sept. 15—The Rev. Peter J. Gomes, Plummer Professor of Christian Morals and Pusey Minister in the Memorial Church
Tue., Sept. 16—Drew Gilpin Faust, president, Harvard University
Wed., Sept. 17—The Rev. Dr. Dorothy A. Austin, Sedgwick Associate Minister in the Memorial Church, co-master of Lowell House
Thu., Sept. 18—The Rev. Jonathan C. Page, Epps Fellow in the Memorial Church
Fri., Sept. 19—The Rev. Robert J. Mark, McDonald Fellow in the Memorial Church
Sat., Sept. 20—David G. Mitten, James Loeb Professor of Classical Art and Archaeology
Mon., Sept. 22—Richard F. Thomas, professor of Greek and Latin
Tue., Sept. 23—Stephanie A. Paulsell, Houghton Professor of the Practice of Ministry Studies and associate dean for faculty and curricular affairs, HDS
Wed., Sept. 24—Christopher S. Queen, dean of students and director of alumni relations in extension studies
Thu., Sept. 25—Diana Louise Eck, professor of comparative religion and Indian studies, master of Lowell House

Auditions for the Harvard University Choir will be held during the first week of Term in the choir room on the ground floor of the Memorial Church. (617) 495-5508, jmrobert@fas.harvard.edu, kschick@fas.harvard.edu. www.uchoir.harvard.edu.
■ Fri., Sept. 12—Information session in the Buttrick Room, ground floor, Memorial Church, 4 p.m., followed by an open rehearsal, 4:30-6 p.m.
Preliminary audition times
■ Thu., Sept. 11—2-5 p.m.
■ Fri., Sept. 12—2-3:30 p.m.
■ Mon., Sept. 15—2-5 p.m.
■ Tue., Sept. 16—2-4 p.m.
■ Wed., Sept. 17—2-5 p.m.

Compline

The ancient service of Compline is held one Thursday a month during term. Based upon the traditional evening liturgy of scripture, music, prayers, and silence, this twenty-minute service is sung in the candlelit space of Appleton Chapel by members of the Harvard University Choir. All are welcome.
■ Thu., Sept. 11, Oct. 2, Nov. 6, Dec. 4, and Jan. 8 at 10 p.m.

Sunday Night Student Service

All undergraduate and graduate students are welcome to attend a worship service every Sunday night at 9 p.m. in Appleton Chapel. The service lasts 45 minutes and includes weekly Eucharist, singing, and student participation. Students are encouraged to come dressed as they are and are invited to remain for food and fellowship. E-mail jonathan_page@harvard.edu for details.
■ Sundays, beginning Sept. 14, with the Rev. Jonathan C. Page

Wednesday Tea

On Wednesdays during Term, Professor Gomes welcomes undergraduates, graduate students, and visiting scholars to afternoon tea from 5-6 p.m. at his residence, Sparks House, 21 Kirkland St., across from Memorial Hall.
■ Wednesdays, beginning Sept. 17

Undergraduate Fellowship

An opportunity for students to meet, enjoy food, and discuss faith. Meetings take place Wednesdays at 9:30 p.m. in the Buttrick Room, Memorial Church. E-mail jonathan_page@harvard.edu for details.
■ Wednesdays, beginning Sept. 17

Graduate Fellowship

A new fellowship group for graduate students with discussions, food, contemplative worship, and more. Meetings take place Thursdays at 7 p.m. E-mail robfirstpres@gmail.com for details.
■ Thursdays, beginning Sept. 18

Berkland Baptist Church

99 Brattle St., Harvard Sq. (617) 828-2262, dancho@post.harvard.edu
■ Sunday School: Sun., 12:15 p.m.
■ Worship Service: Sun., 1 p.m.
Berkland Baptist Church is a community of faith, primarily comprised of young Asian American students and professionals.

Cambridge Forum

The First Parish in Cambridge, Unitarian Universalist, 3 Church St., (617) 495-2727, www.cambridgeforum.org.

Christian Science Organization meets in the Phillips Brooks House every Tue. at 7 p.m. for religious readings and testimonies. (617) 876-7843.

The Church at the Gate

Sunday services: 4 p.m. www.thechurchattthegate.com
The Church at the Gate will see people of all nations transformed by faith in Jesus Christ as we love and serve God and people in the strategic context of the city and the university.

The Church of Jesus Christ of Latter-day Saints

2 Longfellow Park (located at about 100 Brattle St.)
Sunday Worship Services: 9:30 a.m., 11:30 a.m., 2 p.m., 3:50 p.m.
All are welcome. The congregations that meet at these times are composed of young, single students and professionals. For information on family congregation meeting places and times, or for information on other classes and events, e-mail lds-bostoninstitute@yahoo.com.

Congregation Ruach Israel

A Messianic Jewish Synagogue
754 Greendale Ave., Needham, MA
Shabbat services, Saturday morning at 10 a.m.
Call (781) 449-6264 or visit www.ruachisrael.org for more information. Rides from Harvard Square available upon request.

Divinity School Chapel

45 Francis Ave. (617) 495-5778
Services are held during the fall and spring terms only.
■ HDS Wednesday Noon Service: 12:10 p.m.
■ HDS Thursday Morning Eucharist: 8:30-9 a.m.

Dzogchen Center Cambridge meets every Monday evening at 7:30 p.m. for Tibetan Buddhist Dzogchen practice at Cambridge Friends Meeting House, Longfellow Park, off Brattle St. (718) 665-6325, www.dzogchen.org/cambridge.

Episcopal Divinity School
“Introductory Meditation Classes: Finding Peace in a Busy World.”
Introduction to basic Buddhist philosophy and meditation. Each class includes a brief talk, guided meditation, and time for questions. Taught by Gen Kelsang Choma, American Kadampa Buddhist nun, resident teacher of Serlingpa Meditation Center. Burnham Chapel, Episcopal Divinity School, 99 Brattle St., 10:30 a.m.-noon. \$10 suggested donation. epc@serlingpa.org, www.MeditationinBoston.org.

First Baptist Church in Newton

848 Beacon St.
Newton Centre, MA 02459
(617) 244-2997
www.fbcnewton.org
Sunday worship at 10:30 a.m.; Sunday School at 9:30 a.m.
Corner of Beacon and Centre streets, accessible via MBTA's D Line, two blocks from the Newton Centre stop.

First Reformed Presbyterian Church of Cambridge (RPCNA)

53 Antrim St.
Cambridge, MA 02139
(617) 864-3185
www.reformedprescambridge.com
Sunday worship at 11 a.m. and 6 p.m.

Christian counseling available by appointment.

First United Presbyterian Church (PCUSA)

1418 Cambridge St.
Inman Square
(617) 354-3151
www.cambridgepres.com
Sunday Worship at 10 a.m.
Weekly small group for young adults; pallikk@fas.harvard.edu.

Fo Guang San 'V International Buddhist Progress Society holds a traditional service every Sunday at 10 a.m. with a free vegetarian lunch. 950 Massachusetts Ave. Open Mon.-Sun., 10 a.m.-6 p.m. for meditation. (617) 547-6670.

Grace Street Church (Cambridge Foursquare Church) holds a Sunday evening service at 7 p.m. Washburn Hall, Episcopal Divinity School, 99 Brattle St. (617) 233-9671, graces-treet.org.

Harvard Buddhist Community
Chaplain Lama Migmar Tseten offers teachings and meditation sessions at the Sakya Institute for Buddhist Studies, 59 Church St., Unit 3, Harvard Square. (617) 256-3904, migtse@earthlink.net, www.sakya.net.

■ Sundays (beginning Sept. 21): “In-Depth Teachings on the Four Noble Truths,” 10 a.m.-noon. Fee: \$15 per class.
■ Tuesdays: Mind training course, “Seven Points of Mind Training,” 6-7 p.m. (practice), 7:30-9 p.m. (class). Fee: \$15 per class.
■ Fridays (Beginning Sept. 19): “Uttaratantra,” 6-7 p.m. (practice), 7:30-9 p.m. (class). Fee: \$15 per class.
■ Sundays, Sept. 21-Oct. 19: Meditation training course, level I, “Instruction and Practice of the Nine Stages of Shamatha Meditation,” 1:30-3 p.m. Fee: \$15 per session.

Harvard Unitarian Universalist Ministry for Students

Weekly worship: Fridays at 12:15 p.m. Services are held during the fall and spring terms only.
The first Friday of the month meet in Emerson Chapel, Divinity Hall. The remaining Fridays meet in Andover Chapel, Andover Hall. All are welcome. http://groups.yahoo.com/group/huum/s/.

Hope Fellowship Church holds worship service Sundays at 9 a.m. and 11 a.m., 16 Beech St. (617) 868-3261, www.hopefellowshipchurch.org.

Old South Church, United Church of Christ, Congregational
Copley Square, (617) 425-5145, helen@oldsouth.org

(Continued on next page)

Sept. 19

Jed Horne (left), author and former city editor of The Times Picayune, will speak on Friday (Sept. 19) about ‘Governance vs. Laissez-faire in Rebuilding New Orleans.’ The talk will take place in the Fainsod Room, 3rd floor, Littauer Building, Harvard Kennedy School, at noon. Sponsored by

The Broadmoor Project: New Orleans Community Engagement Initiative, a project of the Kennedy School’s Belfer Center for Science and International Affairs, in partnership with the Shorenstein Center on the Press, Politics & Public Policy. For more information, call (617) 496-6230.

(Continued from previous page)

■ Sundays: 9 a.m. early service; 11 a.m. sanctuary service with organ and choir
■ Thursdays: Jazz worship service at 6 p.m.

Unity Center Cambridge

Sunday services: 11 a.m. (meditation at 10:30 a.m.)
Morse School Theater, 40 Granite St., Cambridgeport (accessible by red line, green line and buses), www.unitycambridge.org
Unity Center Cambridge is a new spiritual community that emphasizes practical teachings and integrates wisdom across a range of spiritual traditions. All are welcome.

Unity Church of God

6 William St., Somerville, 3 blocks up College Ave. from Davis Sq., (617) 623-1212, www.unitychurchofgod.org
■ Sunday services: 11 a.m.
■ Monday: Prayer group at 7 p.m.
■ Tuesday: Support group at 7 p.m.
■ Alternate Fridays: Movie viewings at 7 p.m.

Vineyard Christian Fellowship of Cambridge

holds service Sundays at 170 Rindge Ave. in North Cambridge, walking distance from Davis and Porter Squares. Service times are 9 a.m. — with corresponding kids church — and 11 a.m. shuttle service currently picks up students at 8:25 a.m. for the 9 a.m. service, and 10.25 a.m. for the 11 a.m. service, at Harvard Square (in front of the Holyoke Center, at 1250 Mass. Ave., next to the cab stand). Senior pastor, Dave Schmelzer. (617) 252-0005, www.cambridgevineyard.org.

WomenChurch, an imaginative community for women, meets the first Thursday of each month (during the fall and spring terms only) at 7 p.m. in Andover Chapel at HDS on Francis Ave. All women are welcome. E-mail mfurness@hds.harvard.edu for information.

United Ministry

The following churches and organizations are affiliated with the United Ministry and offer worship and social services. Call for details.

Anglican/Episcopal Chaplaincy at Harvard

2 Garden St. (617) 495-4340 episcopal_chaplaincy@harvard.edu
Eucharist Sundays at 5 p.m. at the Christ Church Chapel (behind the church at Zero Garden St.), followed by fellowship supper at 6 p.m. in the Chaplaincy Common Room. Episcopal Students at Harvard: www.hcs.harvard.edu/~esh/ for an updated list of student activities and events. A ministry of the Episcopal Diocese of Massachusetts and the worldwide Anglican Communion.

Christ the King Presbyterian Church

99 Prospect St. Cambridge, Mass.
Sundays: Services in English at 10:30 a.m. and in Brazilian Portuguese at 6 p.m. (617) 354-8341, office@ctkcambridge.org, www.ctkcambridge.org

Harvard Bahá'í Student Association

bahai@hcs.harvard.edu
All events are open to the public. Please write to bahai@hcs.harvard.edu for more information, or subscribe to our announcement list at http://lists.hcs.harvard.edu/mailman/listinfo/bahai-list.

Harvard-Epworth United Methodist Church

1555 Massachusetts Ave. Cambridge, Mass. (617) 354-0837 www.harvard-epworth.org
■ Communion service: 9 a.m.
■ Christian education hour for all ages: 10 a.m.
■ Worship service: 11 a.m.

Harvard Hindu Fellowship Meditation Group

is led by Swami Tyagananda, Harvard Hindu chaplain from the Ramakrishna Vedanta Society. Meets Mondays, 7-8 p.m., in the Mather House Tranquility Room. Swami_tyagananda@harvard.edu.

Harvard Islamic Society

Harvard Islamic Society Office. (617) 496-8084
www.digitas.harvard.edu/~his
Five daily prayers held in the basement of Canaday E. Friday prayers held in Lowell Lecture Hall at 1:15 p.m.

Harvard Korean Mission meets on Fridays for Bible Study Group at 7 p.m., and on Sundays for ecumenical worship at 2 p.m. in the Harvard-Epworth United Methodist Church, 1555 Massachusetts Ave. (617) 441-5211, rkahng@hds.harvard.edu.

H-R Asian Baptist Student Koinonia

Friday Night Bible study: Boylston Hall 105, 7 p.m., every Friday. Join us as we continue our study of the Gospel of Matthew this year.
Frosh Mid-Week at Loker 031, 7:30-8:30 p.m., every Wednesday, Freshmen only.
iskandar@fas.harvard.edu, www.hcs.harvard.edu/~absk.

H-R Catholic Student Center

Saint Paul Church, 29 Mt. Auburn St. Student Mass: Sun., 5 p.m., Lower Church.

Harvard Hillel

52 Mt. Auburn St. (617) 495-4696 www.hillel.harvard.edu
■ Reform Minyan: Fri., 5:30 p.m.
■ Orthodox Minyan: daily, 7:30 a.m. and 15 minutes before sundown; Sat., 9 a.m. and 1 hour before sundown
■ Conservative Minyan: Mon. and Thu., 8:45 a.m.; Fri., 5:45 p.m.; Sat., 9:30 a.m., 1:45 p.m., and 45 minutes after sundown.
■ Worship and Study Minyan (Conservative): Sat., 9:30 a.m.

H-R Humanist Chaplaincy

Monthly Meeting: One Sunday of every month, Hall A, Science Center, 1 Oxford St., 2 p.m. (617) 495-5529.

Cambridge Friends Meeting meets for worship Sundays at 10:30 a.m. and 5 p.m., Wednesdays at 8:30 a.m., 5 Longfellow Park, off Brattle St. (617) 876-6883.

Cambridgeport Baptist Church (corner of Magazine St. and Putnam Ave., 10-minute walk from Central Square T stop)
Sunday morning worship service at 10 a.m. Home fellowships meet throughout the week. (617) 576-6779, www.cambridgeportbaptist.org.

First Church in Cambridge (United Church of Christ) holds a traditional worship service Sundays at 11 a.m. and an alternative jazz service Sunday afternoons at 5:30 p.m. Located at 11 Garden St. (617) 547-2724.

Lutheran — University Lutheran Church, 66 Winthrop St., at the corner of Dunster and Winthrop streets, holds Sunday worship at 10 a.m. through Labor Day weekend and 9 and 11 a.m. Sept. 10-May, with child care provided. UniLu Shelter: (617) 547-2841. Church and Student Center: (617) 876-3256, www.unilu.org.

Old Cambridge Baptist Church, 1151 Mass. Ave. and 400 Harvard St. (behind the Barker Center and the Inn at Harvard), holds Sunday morning worship at 10:30 a.m. Please join this inclusive, progressive congregation in the American Baptist tradition. www.oldcambridgebaptist.org, (617) 864-8068.

Swedenborg Chapel: Church of the New Jerusalem (617) 864-4552, http://sweden-

borgchapel.org/
Located at the corner of Quincy St. and Kirkland St.
■ Bible Study, Sundays at 10 a.m.
■ Services, Sundays at 11 a.m.
■ Community Dinner, Thursdays at 6 p.m.
■ Swedenborg Reading Group, Thursdays at 7 p.m.

Cambridgeport Baptist Church, (617) 576-6779
Christ Church, (617) 876-0200
Episcopal Chaplaincy, (617) 495-4340
First Parish in Cambridge, Unitarian Universalist, (617) 495-2727
Harvard-Epworth United Methodist Church, (617) 354-0837
Old Cambridge Baptist Church, (617) 864-8068
St. Paul Church, (617) 491-8400
Swedenborg Chapel, (617) 864-4552
The Memorial Church, (617) 495-5508

support/social

Support and Social groups are listed as space permits.
The **Berkman Center for Internet and Society Thursday Meetings @ Berman**, a group of blogging enthusiasts and people interested in Internet technology, meets at the Berkman Center on the second floor of 23 Everett St., Cambridge, on Thursday evenings at 7 p.m. People of all experience levels and those who would like to learn more about weblogs, XML feeds, aggregators, wikis, and related technology and their impact on society are welcome. http://blogs.law.harvard.edu/thursdaymeetings/.

The **COACH Program** seeks Harvard college and graduate students to serve as “college coaches” in the Boston Public Schools to assist young people in applying to college and developing plans for after high school. COACH is looking for applicants interested in spending about three hours per week working with high school juniors and seniors in West Roxbury. Interested students should call (917) 257-6876 or e-mail asamuels@law.harvard.edu.

Harvard's EAP (Employee Assistance Program) provides free, confidential assessment and referral services and short-term counseling to help you work through life's challenges. Harvard faculty, staff, retirees, and their household members can access the following services throughout the U.S. and Canada 24 hours a day, 7 days a week: confidential assessment, information, referral; consultation to supervisors around employee well-being, behavior, or performance; individual and group support around a workplace crisis, serious illness, or death; and on-site seminars. In addition, Harvard's EAP can help with workplace conflicts, personal and family relationships, eldercare planning, legal consultations, financial counseling and planning, sexual harassment, workplace and domestic violence, alcohol and drug use, and more. To schedule an appointment near your office or home, call the EAP's toll-free number at **1-EAP-HARV (1-877-327-4278)**. Counselors are available to answer your calls from 8:30 a.m. to 7 p.m. Monday through Thursday, and from 8:30 a.m. to 5 p.m. on Friday; urgent calls will be answered by crisis clinicians round the clock. You may also visit www.wellnessworklife.com for further information and access to other resources available to you as a Harvard employee (there is a one-time confidential registration process; please visit www.harvie.harvard.edu for login instructions).

Harvard Lesbian/Bisexual/Transgender/Queer Women's Lunch is a chance for lesbian/bi/trans/queer women staff and faculty at Harvard to meet informally for lunch and conversation. Meetings take place 12:30-1:30 p.m. in the graduate student lounge on the 2nd floor of Dudley House. You can bring lunch or buy at Dudley House. E-

mail ochs@fas.harvard.edu, dmorley@fas.harvard.edu, or linda_schneider@harvard.edu for more information.

Harvard Lesbian, Gay, Bisexual & Transgender Faculty & Staff Group. (617) 495-8476, ochs@fas.harvard.edu, www.hglc.org/resources/faculty-staff.html.

Harvard Student Resources, a division of Harvard Student Agencies, employs a work force of more than 300 students to provide temporary clerical work, housecleaning, tutoring, research, moving, and other help at reasonable rates. **HSA Cleaners**, the student-run dry cleaning division of Harvard Student Agencies, offers 15 percent off cleaning and alterations for Harvard employees. (617) 495-3033, www.hsa.net.

Harvard Student Spouses and Partners Association (HSSPA) Spouses Support Group is a social group where you can meet other spouses who might help you to get used to your new situation as a spouse or partner at Harvard University. Our support group meets weekly all year long. Please e-mail spousessupport@gmail.com for location and time of meetings and check www.hsspa.harvard.edu for events.

Harvard Toastmasters Club helps you improve your public speaking skills in a relaxed environment. For Harvard students from all Schools and programs. Meetings are Tuesdays, 7-8 p.m., in the Center for Public Leadership, Taubman Building, HKS. jkhartshorne@gmail.com.

The Harvard Trademark Program has redesigned its Web site to better meet the needs of the public and members of the Harvard community who are seeking information about the Harvard Trademark Program's licensing activities and trademark protection efforts as well as information regarding the various policies governing the proper use of Harvard's name and insignias. trademark_program@harvard.edu, www.trademark.harvard.edu.

Harvard Veterans Alumni Organization is open to all members of the Harvard University community who are, or have served, in the U.S. military. Visit www.harvardveterans.org for information and to participate.

LifeRaft is an ongoing drop-in support group where people can talk about their own or others' life-threatening illness, or about their grief and bereavement. Life Raft is open to anyone connected with the Harvard Community: students, faculty, staff, retirees, and families. Life Raft is free and confidential and meets on Wednesdays, noon-2 p.m. in the Board of Ministry Conference Room on the ground floor of the Memorial Church. Come for 10 minutes or 2 hours. (617) 495-2042, bgilmore@uhs.harvard.edu.

Office of Work/Life Resources offers a variety of programs and classes. (617) 495-4100, worklife@harvard.edu, http://harvie.harvard.edu/workandlife. See classes for related programs.
■ **Parent-to-Parent Adoption Network at Harvard.** If you would like to volunteer as a resource, or if you would like to speak to an adoptive parent to gather information, call (617) 495-4100. All inquiries are confidential.

On Harvard Time is Harvard's new, weekly 7-minute news show that will cover current news from a Harvard perspective. Online at www.hrtv.org, 7 p.m. onharvardtime@gmail.com.

Recycling Information Hotline: The Facilities Maintenance Department (FMD) has activated a phone line to provide recycling information to University members. (617) 495-3042.

Smart Recovery is a discussion group for people with problems with addic-

tion. Programs are offered at Mt. Auburn Hospital, Massachusetts General Hospital, McLean Hospital, and other locations. (781) 891-7574.

Tobacco Cessation Classes are offered weekly at the Dana-Farber Cancer Institute, dates and times may vary. Fee: \$10 per class, and nicotine patches are available at a discounted rate. (617) 632-2099.

The University Ombudsman Office is an independent resource for problem resolution. An ombudsman is *confidential*, *independent*, and *neutral*. The ombudsman can provide confidential and informal assistance to faculty, fellows, staff, students, and retirees to resolve concerns related to their workplace and learning environments. A visitor can discuss issues and concerns with the ombudsman without committing to further disclosure or any formal resolution. Typical issues include disrespectful or inappropriate behavior, faculty/student relations, misuse of power or unfair treatment, authorship or credit dispute, sexual harassment or discrimination, stressful work conditions, career advancement, overwork, disability, or illness. The office is located in Holyoke Center, Suite 748. (617) 495-7748, www.universityombudsman.harvard.edu.

Women's Lives Reading Group meets once a month to discuss a novel or a biography. Women in the group use their lives to better understand the women they read about, and use the book's characters to spark discussions about their own lives as women. anne@wjh.harvard.edu.

studies

Studies are listed as space permits.
Acne Study: Researchers seek people 12 years of age and older with facial acne to determine the safety and effectiveness of an investigational drug for acne. The study consists of five visits over 12 weeks and subjects will receive up to \$200 in compensation for time and travel. Study visits are required approximately every two to four weeks. Participants will have to stop all other treatments for acne except emollients approved by the study doctor. (617) 726-5066, harvard-skinstudies@partners.org.

Diabetes and Hypertension Study: Researchers seek participants ages 18-75 with type 2 diabetes mellitus and high blood pressure, no heart attack or stroke in the last six months, no history of ECG abnormalities, and no history of gastrointestinal issues for a 14-day research study. Women must be either postmenopausal or surgically sterilized. The study will include three inpatient days over the course of two separate admissions. Subjects will receive intravenous infusions on three different mornings to study the kidney's response to the rennin inhibitor aliskiren. Compensation of \$1,000 upon study completion. (617) 732-6901, hhasett@partners.org, esampong@partners.org.

Healthy Women Study: Researchers seek healthy women ages 18-40 who have regular menstrual cycles and are not taking medications (including birth control pills). Payment provided. (617) 726-8437, cwelt@partners.org.

Lifestyle and Fertility Study: Researchers seek women ages 20-34 who are planning their first pregnancy, and their male partners, to participate in a lifestyle and fertility study. Eligible couples with no known history of infertility will be asked to provide a urine and blood sample and fill out questionnaires. Participation involves one initial visit and follow-up until couple is pregnant or six months have passed. Compensation up to \$185, free pregnancy tests, diet assessment, and cholesterol reading will be provided. (781) 434-6556, lsisFertility@dartmouth.edu.

Opportunities



Job listings posted as of September 11, 2008

Harvard is not a single place, but a large and varied community. It is comprised of many different schools, departments and offices, each with its own mission, character and environment. Harvard is also an employer of varied locations.

Harvard is strongly committed to its policy of equal opportunity and affirmative action. Employment and advancement are based on merit and ability without regard to race, color, creed, sex, sexual orientation, disability, national origin or status as a disabled or Vietnam-era veteran.

How to Apply:
To apply for an advertised position and/or for more information on these and other listings, please visit our Web site at <http://www.employment.harvard.edu> to upload your resume and cover letter.

Explanation of Job Grades:
Most positions at Harvard are assigned to a job grade (listed below with each posting) based on a number of factors including the position’s duties and responsibilities as well as required skills and knowledge.

The salary ranges for each job grade are available at <http://www.employment.harvard.edu>. Target hiring rates will fall within these ranges. These salary ranges are for full-time positions and are adjusted for part-time positions. Services & Trades positions are not assigned grade levels. The relevant union contract determines salary levels for these positions.

Other Opportunities:
All non-faculty job openings currently available at the University are listed on the Web at <http://www.employment.harvard.edu>.

There are also job postings available for viewing in the Longwood Medical area, 25 Shattuck St., Gordon Hall Building. For more information, please call 432-2035.

This is only a partial listing. For a complete listing of jobs, go to <http://www.employment.harvard.edu>.

In addition, Spherion Services, Inc., provides temporary secretarial and clerical staffing services to the University. If you are interested in temporary work at Harvard (full- or part-time), call Spherion at (617) 495-1500 or (617) 432-6200 (Longwood area).

Additional Career Support:
A Web page on career issues, including links to career assessment, exploration, resources, and job listings, is available for staff at <http://www.harvie.harvard.edu/learning/careerdevelopment/index.shtml>

Job Search Info Sessions:
Harvard University offers a series of information sessions on various job search topics such as interviewing, how to target the right positions, and navigating the Harvard hiring process. All are welcome to attend. The sessions are typically held on the first Wednesday of each month from 5:30 to 7:00 at the Harvard Events and Information Center in Holyoke Center at 1350 Massachusetts Avenue in Harvard Square. More information is available online at <http://employment.harvard.edu/careers/findingajob/>.

Please Note:
The letters “SIC” at the end of a job listing indicate that there is a strong internal candidate (a current Harvard staff member) in consideration for this position.

Academic

Litigation and Writing Advocacy Fellow Req. 35049, Gr. 090
Harvard Law School/Human Rights
FT, SIC, (9/4/2008)

Alumni Affairs and Development

Assistant Director, Development Req. 35094, Gr. 056
Harvard Business School/External Relations
FT (9/4/2008)
Development Officer, Research and Events Req. 35037, Gr. 056
Radcliffe Institute/Advancement
FT, SIC, (8/28/2008)
Manager, Gift Processing Req. 35092, Gr. 057
Harvard Business School/External Relations
FT (9/4/2008)

Communications

Copyeditor/Proofreader Req. 35110, Gr. 055
Alumni Affairs and Development/, University Donor Relations and Communications
FT (9/11/2008)
Marketing Information Manager Req. 35099, Gr. 056
American Repertory Theatre/Marketing & Communications
FT (9/11/2008)
CTSC Communications Coordinator Req. 35112, Gr. 056
Harvard Medical School/CTSC
FT (9/11/2008)
Advertising Account Manager Req. 35118, Gr. 056
University Administration/Harvard Magazine
FT (9/11/2008)
Executive Director, Strategic Communications Req. 35139, Gr. 062
Alumni Affairs and Development/Communications
FT (9/11/2008)

Dining & Hospitality Services

Floating Chef/Production Manager Req. 35132, Gr. 056
Dining Services
FT (9/11/2008)
Lead Req. 34964, Gr. 015
Dining Services/Cronkhite Dining Hall
Union: HEREIU Local 26, FT (8/28/2008)

Facilities

Workstation Operator B Req. 35119, Gr. 024
University Operations Services/Operations Center
Union: ATC/IUOE Local 877, FT (9/11/2008)
Area Supervisor Req. 34994, Gr. 058
University Operations Services/FMO
FT (8/28/2008)
Facilities Engineer Req. 35100, Gr. 058
University Operations Services/FMO
FT (9/11/2008)

Faculty & Student Services

Manager, Career Education and Support Req. 35131, Gr. 056
Harvard Business School/MBA Career Services
FT (9/11/2008)

Finance

Financial Associate (Senior Grants Manager) Req. 34948, Gr. 056
Harvard Medical School/Genetics
FT (8/28/2008)
Sponsored Research Administrator Req. 35028, Gr. 056

Faculty of Arts and Sciences/FAS Research Administration Services
FT, SIC, (8/28/2008)
Senior Director, Finance and IT Operations Req. 35134, Gr. 060
Harvard Business School/External Relations
FT (9/11/2008)
Senior Financial Analyst for Harvard College and Graduate School of Arts & Sciences Req. 35105, Gr. 059
Faculty of Arts and Sciences/FAS Office of Finance
FT (9/11/2008)
Senior Financial Analyst for the Social Sciences Division Req. 34959, Gr. 058
Faculty of Arts and Sciences/FAS Financial Office
FT (8/28/2008)
Senior Financial Analyst for the Arts & Humanities Division Req. 34958, Gr. 058
Faculty of Arts and Sciences/FAS Financial Office
FT (8/28/2008)
Claims and Loss Prevention Specialist Req. 35127, Gr. 057
Financial Administration/Insurance
FT (9/11/2008)
CTSC Senior Financial Planning Administrator Req. 35088, Gr. 058
Harvard Medical School/Financial Operations and Analysis
FT (9/4/2008)
Financial Analyst Req. 34957, Gr. 057
Faculty of Arts and Sciences/FAS Office of Finance
FT (8/28/2008)
Senior Treasury Analyst Req. 35095, Gr. 058
Financial Administration/Office of Treasury Management
FT (9/11/2008)
Business Analyst Req. 34975, Gr. 060
Dining Services
PT (8/28/2008)
Senior Financial Planning Administrator Req. 35048, Gr. 058
Harvard Medical School/Financial Operations and Analysis
FT (9/4/2008)
Financial Analyst Req. 34960, Gr. 057
Faculty of Arts and Sciences/FAS Office of Finance
FT (8/28/2008)

General Administration

CTSC Evaluation Coordinator Req. 35111, Gr. 056
Harvard Medical School/CTSC
FT (9/11/2008)
Program Administrator (Assistant Director) Req. 35057, Gr. 056
Harvard School of Public Health/Health Policy & Management
FT, SIC, (9/4/2008)
Business Development Associate Req. 34990, Gr. 056
University Administration/OTD
FT (8/28/2008)
Assistant Director Req. 35124, Gr. 057
Harvard School of Public Health/Human Research Administration
FT (9/11/2008)
Program Manager Req. 34955, Gr. 056
Harvard Law School/Executive Education
FT (8/28/2008)
Secretary of the Faculty Req. 34979, Gr. 061
Faculty of Arts and Sciences/Dean of the Faculty
FT (8/28/2008)
Senior Aide to the Dean of Science Req. 35063, Gr. 057
Faculty of Arts and Sciences/Division of Science
FT, SIC, (9/4/2008)
Special Assistant to the Dean Req. 34998, Gr. 057
Radcliffe Institute/Dean’s Office
FT (8/28/2008)
Research Officer Req. 35107, Gr. 056
Faculty of Arts and Sciences/FAS Sponsored Programs Administration

FT (9/11/2008)
Program Director, Faculty Appointments Req. 34993, Gr. 058
Harvard Medical School/OFA
FT (8/28/2008)
Program Manager, Cultural Agents Initiative Req. 35050, Gr. 056
Faculty of Arts and Sciences/Romance Languages & Lits
PT (9/4/2008)
Director of Student Practice Req. 35121, Gr. 058
Harvard School of Public Health/Office of Educational Programs
FT (9/11/2008)
Program Administrator Req. 35064, Gr. 056
Faculty of Arts and Sciences/Center for the Environment
FT (9/4/2008)
Special Assistant to the Director Req. 35003, Gr. 056
Graduate School of Education/Project for Policy Innovation in Education
FT (8/28/2008)
Program Manager Req. 34988, Gr. 056
University Administration/Harvard Initiative for Global Health
FT (8/28/2008)
Specal Projects Associate Req. 35084, Gr. 056
Graduate School of Education/Institutional Research/Academic Affairs
FT (9/4/2008)
Associate Director of the Management Program Req. 34977, Gr. 058
Division of Continuing Education/Management Program
FT (8/28/2008)

Health Care

Nurse Practitioner - Float Req. 35040, Gr. 058
University Health Services/Internal Medicine
FT (9/4/2008)
Nurse Leader Req. 35079, Gr. 057
University Health Services/Surgical Specialty
FT (9/4/2008)

Human Resources

Benefits Analyst - Health and Welfare Plans Req. 35066, Gr. 056
University Administration/Benefits Service Group
FT (9/4/2008)

Information Technology

Sr. Network Security and Systems Administrator Req. 35025, Gr. 058
JFK School of Government/Information Technology
FT (8/28/2008)
Programmer Analyst (Statistical Programmer II) Req. 34976, Gr. 056
Harvard School of Public Health/Center for Biostatistics in AIDS Research
FT (8/28/2008)
Web Developer Req. 34954, Gr. 056
Harvard Law School/Berkman Center for Internet and Society
FT (8/28/2008)
Research Engineer/Associate Req. 35103, Gr. 058
School of Engineering & Applied Sciences/Information Technology
FT (9/11/2008)
Associate Director for Academic Technology:Technical Development and Multimedia Operations Req. 35133, Gr. 060
Faculty of Arts and Sciences/FAS IT
FT (9/11/2008)
Senior Business Analyst (UIS Network & Server Systems Business Operations) Req. 35091, Gr. 058
University Information Systems/Network and Server Systems
FT (9/4/2008)
Systems Administrator for Neuroimaging Req. 35007, Gr. 057
Faculty of Arts and Sciences/Center for Brain Science

FT (8/28/2008)
Systems Administrator Req. 34969, Gr. 056
Harvard Law School/Berkman Center for Internet and Society
FT (8/28/2008)
Windows Systems Administrator Req. 35109, Gr. 057
Faculty of Arts and Sciences/FAS IT
FT (9/11/2008)
Data Analyst Req. 35114, Gr. 056
Harvard School of Public Health/Society, Human Development and Health
FT, SIC, (9/11/2008)
Senior Network Engineer Req. 34972, Gr. 058
Harvard School of Public Health/Information Technology
FT (8/28/2008)
Software Engineer Req. 35083, Gr. 057
Harvard Medical School/CBML/Countway
FT (9/4/2008)
Systems Administrator/Developer Req. 35019, Gr. 057
Faculty of Arts and Sciences/Office of International Programs
PT (8/28/2008)
Senior Software Engineer Req. 35032, Gr. 058
Harvard Business School/Information Technology
FT (8/28/2008)
Web Coordinator Req. 35046, Gr. 055
Harvard Law School/Development and Alumni Relations
FT (9/4/2008)

Library

Preservation Cataloger Req. 35098, Gr. 056
Harvard College Library/Imaging Services
FT (9/11/2008)
Collections Services Archivist Req. 35130, Gr. 057
Harvard Medical School/Countway Library
FT (9/11/2008)
Special Collections Librarian (Archives) Req. 35126, Gr. 057
Harvard Business School/KLS
FT, SIC, (9/11/2008)

Research

Statistical Programmer/Data Analyst Req. 35117, Gr. 056
Harvard Medical School/Health Care Policy
PT (9/11/2008)
Scientific Programmer Req. 35097, Gr. 057
Harvard School of Public Health/Epidemiology
FT (9/11/2008)
Project Associate Req. 35016, Gr. 090
Faculty of Arts and Sciences/Institute for Quantitative Social Science
FT (8/28/2008)
Researcher (Energy Studies) Req. 35051, Gr. 056
Faculty of Arts and Sciences/Center for the Environment
FT (9/4/2008)
Project Associate Req. 35015, Gr. 090
Faculty of Arts and Sciences/Institute for Quantitative Social Science
FT (8/28/2008)
Analyst Req. 35140, Gr. 057
Harvard Business School/Division of Research and Faculty Development
FT (9/11/2008)
Project Manager Req. 34956, Gr. 057
Graduate School of Education/Harvard Family Research Project (HFRP)
FT (8/28/2008)
Information Research Specialist Req. 35071, Gr. 057
Harvard Business School/Knowledge and Library Services
FT (9/4/2008)
Senior Statistical Programmer Req. 35043, Gr. 058
Graduate School of Education/Learning Technology Center
FT (9/4/2008)
Statistical Programmer/Analyst Req. 35044, Gr. 057
Graduate School of Education/Project for Policy Innovation in Education
FT (9/4/2008)

Safra Ethics Center welcomes fellows, senior scholars

The Edmond J. Safra Foundation Center for Ethics welcomed its new fellows and senior scholars for the 2008-09 academic year. The faculty fellows were chosen from a pool of applicants from colleges, universities, and professional institutions throughout the United States and several other countries.

“This is an extraordinarily talented group of scholars, and I look forward to working with them,” said Professor of Ethics and Public Policy Arthur Applbaum, acting director of the center. The fellows will be in residence conducting research on issues in ethics in the professions and public life, and participating in the center’s weekly seminar, faculty workshops, conferences, and other activities. Elaine Scarry, Cabot Professor of Aesthetics and the General Theory of Value, will join the fellows as senior scholar in ethics.

In addition, eight Harvard graduate students have been named Edmond J. Safra Graduate Fellows in Ethics. These fellowships are awarded to outstanding students who are writing dissertations on philosophical topics relevant to political and professional practice. They devote their time to an approved course of study in practical ethics and participate in a weekly ethics seminar. Frances Kamm, Lucius Littauer Professor of Philosophy and Public Policy at the Harvard Kennedy School, and professor of philosophy, Department of Philosophy, will join the graduate fellows as senior scholar in ethics.

The Faculty Fellows in Ethics are as follows:

Anne Barnhill received her Ph.D. in philosophy from New York University in 2008. Her dissertation, “Beyond Consent,” explores the place of consent in sexual morality. Her areas of specialization include normative ethics, applied ethics, feminist philosophy, and social philosophy. Barnhill will examine the ethics of manipulation within personal relationships. She has been named the Edmond J. Safra Faculty Fellow in Ethics.

Ulrike Heuer is a lecturer and director of the Center for Ethics and Metaethics, Department of Philosophy, Leeds University. Her philosophical research has focused primarily on foundational issues in the theory of practical reason and the theory of value. Heuer will explore the possibility of explaining deontological reasons within a value-based account of practical reasons.

Mark R. Reiff is a lecturer in legal and political philosophy at the University of Manchester School of Law. He is the author of “Punishment, Compensation, and Law: A Theory of Enforceability,” as well as papers on topics within legal, political, and moral philosophy. Reiff will work on a book provisionally titled “Politectonics: The Struggle Between Liberalism and Perfectionism.”

Tanina Rostain is professor of law and co-director of the Center for Professional Values and Practice at New York Law School. Her work focuses on the empirical investigation of professional norms in corporate and tax practice. During the fellowship year, she will examine the role of tax professionals in the rise of the tax shelter market, 1993-2003.

Alex Voorhoeve is a senior lecturer in philosophy at the London School of Economics. His projects are on the topics liberal egalitarianism and rational choice theory and moral decision making. He will also explore the application of ideas about responsibility and preference change to health care policies.

The Edmond J. Safra Graduate Fellows in Ethics are as follows:

Patricio A. Fernandez, Ph.D. candidate in philosophy and

Davis

(Continued from page 24)

Alexander Berman (visual and environmental studies), “Another Russia: A Documentary on Rangers in the Kamchatka Peninsula,” Petropavlovsk-Kamchatsky; Laura Crisafulli (Russian), “The Art of Russian Realist Vassili Vereshchagin,” Uzbekistan; Emmet McDermott (literature), “Banned Literature and the Investigation of the Satirical Purpose in Soviet Russia,” Moscow; Katherine Peisker (government), “The Relationship Between Religious Affiliation and Voting Patterns in Ukraine and Russia,” Lviv; Jan Straka (social studies), “The Relationship Between Charter 77 and Ecological and Pacifist Movements in 1980s Czechoslovakia,”

Prague; and Anna Whittington (history), “From One Adopted Heimat to Another: German Emigration from the Soviet Union to Germany,” Berlin.

The Davis Center expanded its awards for undergraduate internships this year, enhancing student support for work experience in the region. Details on these awards, including recipients’ names, departments or Schools, internship placements, and destinations appear below.

Goldman Undergraduate Internship Grants were awarded to the following students: Arnold Behrer (economics, government), environmental education, World Wildlife Fund, Ulaanbaatar, Mongolia; Alex-

Houghton sets sights on reception



Houghton Library will host an opening reception on Tuesday (Sept. 16) from 5 to 7 p.m. for its major fall exhibition, “To Promote, to Learn, to Teach, to Please: Scientific Images in Early Modern Books.” The exhibition examines how images in early modern European books of science (1500-1750) not only were shaped by the needs of scientific communication, but also were deeply influenced by economic, social, and cultural considerations. Through representative examples, drawn from the collections of Houghton Library and Harvard’s Collection of Historic Scientific Instruments, this exhibition examines early scientific images and the books they illustrated to show how they were intended to appeal both to men of science and to more general audiences. The exhibition is open to the public through Dec. 20 in the Edison and Newman Room of the library.

economics, focuses on the notion of practical knowledge in action theory and normative ethics. He has done work in the economic analysis of legal systems and is interested in the intersection of economics, theories of practical reason, and questions of normativity. He holds a B.A. in economics from the Catholic University of Chile.

Havva G. Guney-Ruebenacker, S.J.D. candidate at Harvard Law School, focuses on traditional Islamic law and modern Islamic legal reforms in the area of slavery and family law, comparing developments in Islamic law with the modernization of family law in Western legal systems. Guney-Ruebenacker studied both major schools of Islamic law in Saudi Arabia and in Iran. She holds an LL.M. from Harvard and an LL.M. in European Union law and legal history from Cambridge University.

Brodi Kemp, Ph.D. candidate in government, focuses on contemporary political philosophy and its intersection with moral philosophy and law. She is working on the problem of global justice, examining how private (nonstate) actors, including international nongovernmental organizations (INGOs) and private military contractors might help us realize justice on a global scale. She holds a J.D. from Yale Law School and was a teaching fellow in political philosophy and legal theory at Yale and Harvard.

Arnon Levy, Ph.D. candidate in philosophy, focuses on the role of idealization in scientific explanation in biology, and the applicability of ideas and idealizations from evolutionary biology to the study of moral change within society. At Harvard, he has served as a teaching fellow for courses on early modern philosophy, on the philosophy of science, and in the moral reasoning cluster of the core curriculum.

Joseph Mazor, Ph.D. candidate in political economy and government, is developing a liberal theory of property rights in natural resources, arguing for implementing a more egalitarian distribution of global natural resource wealth. At Harvard, he has served as a teaching fellow for introductory courses in both economics and political philosophy and as a graduate research fellow for the Project on Justice, Welfare, and Economics.

Michael Nitsch, Ph.D. candidate in government, uses the history of political thought to explore what role judgments about the moral character of politicians should play in democratic politics. Nitsch has served as a teaching fellow for courses in political philosophy, the history of political thought, and American government.

Susannah Rose is a Ph.D. candidate in the ethics concentration of Harvard’s Health Policy Program, and a pre-doctoral fellow at the Center for Outcomes and Policy Research at the Dana-Farber Cancer Institute. A Columbia University-trained social worker, she has practiced at Memorial Sloan-Kettering Cancer Center. In her work at the Safra Foundation Center for Ethics, she will investigate the normative and policy implications of conflicts of interest between pharmaceutical companies and patient advocacy groups.

Jiewuh Song, Ph.D. candidate in philosophy, is interested in moral and political philosophy, philosophy of law, and international human rights law. Her dissertation focuses on the norms that must govern our interactions with non-citizens, particularly the role of trans-state institutions. She is a graduate of Harvard Law School and has been a clinical supervisor at the Law School Human Rights Program’s International Human Rights Clinic.

The Safra Foundation Center for Ethics, established in 1986, is one of the University’s interfaculty initiatives under the auspices of the Provost’s Office. It encourages teaching and research about ethical issues in the professions and public life, and helps meet the growing need for teachers and scholars who address questions of moral choice in practical ethics and in areas such as architecture, business, education, government, journalism, law, medicine, public health, and public policy.

Global Strategies, Moscow; Mary Szpak (Earth and planetary science), political science curriculum development, Jagiellonian University, Kraków; and Jan Zilinsky (economics; applied mathematics), health care system analysis, Institute for Economic and Social Reforms, Bratislava.

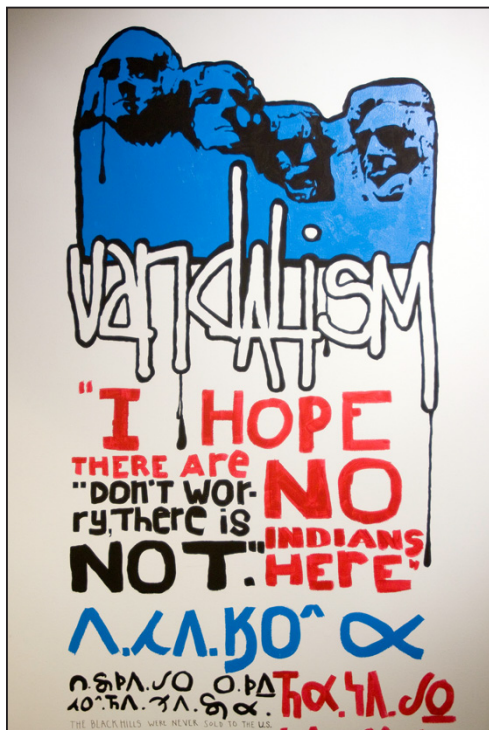
Two students were awarded Andrei Sakharov Program on Human Rights Summer Internships for 2008: Marino Auffant (history) interned at the Slavic Center for Law and Justice and the Civic Assistance Committee in Moscow; and Nafees Syed (government) interned at the International Criminal Tribunal for the Former Yugoslavia, The Hague.

ander Brown (classics), archaeological excavation, Romania and Belarus; Dimitry Doohovskoy (Slavic, economics), real estate investment, Jensen Group, St. Petersburg; Davida Fernandez-Barkan, executive search, Accent Advisory, Moscow; Peyton Greenside, pediatric medicine, Hospital for Mother and Child, Chisinau; Sean Loosli (Slavic and psychology), Web-based curriculum development, Moscow State University Center for International Education, Moscow; Dimitrije Ruzic (economics), outsourcing, consulting, and auditing, Bellerage Vostok, Moscow; Saba Sulaiman (economics, Middle Eastern Studies) and Cathy Sun (social studies), corporate communications and public relations at MCS



Past, present part of 'Remix'

*Student curators
highlight American
Indian culture*



One of the works on exhibit is 'Vandalism' (above) by Ryan Red Corn (Osage).



Staff photos Kris Snibbe/Harvard News Office

'There are no birch bark baskets in this exhibit,' said Amdur-Clark, a member of the Citizen Potawatomi Nation. 'It's art of today because we're people of today.'

By Alvin Powell
Harvard News Office

Kelsey Leonard grew up on New York's Long Island, bombarded by society's common images of American Indians that included casino owners, alcoholics, and basket-weaving natives.

The images provided confusing and too-often negative guideposts for the young Shinnecock woman, today a Harvard junior.

Last spring, Leonard and three other Harvard American Indian students — Tanner Amdur-Clark, LeRenzo Tolbert-Malcom, and Caitlin Young — tried their own hands at defining American Indian youth in a cultural reality check for those whose only exposure to American Indian culture comes from dated or negative images.

"We are thought of as stagnant, in the past," Leonard said. "We are cultures that are changing and continually thriving."

The result is an exhibit at the Peabody Museum of Archaeology and Ethnology titled "Remix: Indigenous Identities in the 21st Century." Housed in a small gallery at the entrance to the larger Hall of the North American Indian, the exhibit provides a modern counterpoint to the traditional, historical sense of American Indian culture presented by the old artifacts of the larger exhibition.

"There are no birch bark baskets in this exhibit," said Amdur-Clark, a member of the Citizen Potawatomi Nation. "It's art of today be-

cause we're people of today."

There will be a curator's talk, 'Remix: Indigenous Identities Today,' on Oct. 7 at 5:30 p.m. at the Peabody Museum. 'Remix: Indigenous Identities in the 21st Century' runs through Oct. 19 at the Peabody Museum of Archaeology and Ethnology, 11 Divinity Ave., Cambridge, Mass.

cause we're people of today."

"Remix," which runs through mid-October, provides a thoroughly modern take on American Indian youth culture, featuring four artists whose art ranges from paintings and sculpture to skateboards and T-shirts.

"Our indigenous identities are evolving; it's not just the bow and arrow or the flute, we have contemporary art forms," Leonard said. "There's the idea we're either extinct or we have to live in two worlds. In reality it's about finding a balance. You can be the Armani-clad CEO and still be native. And you can be a skater and still have your identity."

The exhibit features the art of four Native American artists who hail from native communities across the United States: Doug Miles, San Carlos Apache/Akimel O'odham; Ryan Red Corn, Osage; Courtney Leonard, Shinnecock; and Bunky Echo-Hawk, Pawnee and Yakama. Lyrics from rapper Quese IMC run around the top of the exhibit. Quese IMC is Pawnee and Seminole.

"This is showing youth that they don't have to just take what's given to them. If they want Geronimo on a skateboard, they can have it," Leonard said.

Simone Monique Barnes, who works at the Peabody as part of Harvard's Administrative Fellows Program, guided the students' work. The exhibit, she said, fits into a new emphasis at the museum on collaborative exhibits concerning American Indians. This emphasis reflects a major paradigm shift over the past 20 years that changes how indigenous collections are cared for and exhibited, with museums seeing themselves as stewards to collections and valuing community, scholar, and student contributions to the curatorial process.

Assistant to the President and Associate Vice President James Hoyte, who heads the Administrative Fellows Program, said the program, begun nearly two decades ago, aims to promote diversity at the University by bringing talented people from minority groups into Harvard's administrative ranks.

Barnes said the students determined the content, aided by Barnes and the museum. The exhibit, which was financially supported by the University, was supported artistically by the artists themselves, who created several new pieces for the project.

"[The student curators] really wanted something that represents youth identity and modern identity. Native American youth will see themselves in these pieces in a way they don't in other exhibits," said Barnes, whose background includes Cherokee, Huron, and Blackfoot. "They're going to see things inspired by the past but not buried by it."

One piece, a wall painting by Ryan Red Corn titled "Vandalism," reflects a native point of view of one of the nation's most symbolic monuments: Mount Rushmore. Carved into the stone of the Black Hills, which are considered sacred by the Lakota, the monument presents images of four presidents whose legacy among American Indians is very different from that in mainstream society: that of a town destroyer, the creator of the "Trail of Tears," an executioner, and the instigator behind the conversion of tribal lands to national parks.

The painting incorporates an exchange overheard between a child and parent who came into the hall as Red Corn was working — "I hope there are no Indians here," the child said. "Don't worry, there is not," the parent responded.

The exhibit, which opened April 5, was timed to coincide with the 5th Annual Ivy Native Council Conference, hosted at Harvard that same month. The Ivy Native Council is an organization of American Indian student groups at Ivy League schools, such as Native Americans at Harvard College, which sponsored the exhibit along with the Peabody.

Leonard, who was president of Native Americans at Harvard College last spring, said she remembers the positive feelings from her first Ivy Native Council Conference and wanted the conference at Harvard to be special. In talking with other organizers, she realized that art, so important to the American Indian community, was not represented at other conferences. That was when the 2008 conference organizers decided to highlight contemporary art as a way to both appeal to youth and open the eyes of people whose only exposure to native communities has been through mainstream media.

"We realized that art was not there before," Leonard said. "It's important to highlight [the importance of art in American Indian culture] to others looking in on our culture."



Simone Monique Barnes of the Peabody Museum talks about the exhibit 'Remix: Indigenous Identities in the 21st Century.'

Teens from Allston Summer Corps worked at nonprofits and attended enrichment seminars. Beckett Dunning (below) of Boston Latin School and others talk with members of the Allston Development Group at the Harvard Allston Education Portal.



Staff photo Rose Lincoln/Harvard News Office



Photo by Julie Russell/Community Affairs

Said Elkatta (from left, foreground) and Suryani Dewa Ayu, both of Cambridge Rindge & Latin School, and Imani Wong (from left, background), also of Rindge & Latin, and Tyrell Carter of the Academy of Public Service all take part in a debate. Jamiah Drigo of Dorchester (below), a sophomore at Boston Leadership Academy, prepares a presentation.



Photo by Julie Russell/Community Affairs

Fiona Liao, 7, (right) is tied to friend Alex Cheung, 6, during a race at the Chinatown Adventure, one of a dozen PBHA camps run by Harvard undergraduates.



Photo by Julie Russell/Community Affairs

Summer in the city

Harvard University programs bring summer learning and fun

Harvard's teaching mission doesn't go on summer vacation — and it doesn't stop at Harvard Yard. In fact, Harvard's labs and classrooms, the Yard, and nearby parks and local schools were all buzzing with learning and fun activities this summer as thousands of people, young and old, took part in dozens of Harvard community-based programs. Scores of local highschoolers spent hours in Harvard labs and classrooms. At Cambridge Rindge & Latin School, more than 200 worked with Harvard Graduate School of Education students. The new Harvard Allston Education Portal at 175 North Harvard St. opened its doors to residents of Allston-Brighton, providing mentoring for area children and other educational programs. The Phillips Brooks House Association's summer camps served nearly 1,000 local children. And almost 200 Boston and Cambridge teens tapped jobs on campus and in neighborhood nonprofits. And that's just a sampling of the programs enlivening the University this very busy season.

— Lauren Marshall



Staff photo Stephanie Mitchell/Harvard News Office

Cambridge Harvard Summer Academy students Jordan Gracia (above center) and Ruth Netzahualt (above right) enjoy an ice cream break. Allston-Brighton resident José Mendoza, 10, (right) works one-on-one with Jennifer DeCoste '09.



Photo by Julie Russell/Community Affairs