



Translating the color code

HMNH exhibit illustrates creatures' many uses of color

By Alvin Powell
Harvard News Office

From snail shells to bird feathers to the changing skin of a chameleon, nature uses colors in ways that range from the electric blue of a poison dart frog's warning to the invisible ultraviolet patterns of flowers that call bees to pollinate.

The development, use, and perception of color is the subject of a new exhibit at the Harvard Museum of Natural History called "Language of Color," which opened Sept. 26 and runs until September 2009.

"It's important to keep in mind that colors are used in different ways by different organisms," said Loeb Associate Professor of the



Andrew Schaper/MCZ

Resplendent quetzal

Natural Sciences Hopi Hoekstra, who together with Lehner Professor for the Study of Latin America Jonathan Losos was a scientific adviser for the exhibit. "[Humans] have great vision for what we need it for, but other organisms have vision for what they need it for."

Museum Executive Director Elisabeth Werby said the exhibit illustrates the museum's unique ability to draw on the research of its associated faculty members and on the University's vast collections to create exhibits that are both visually compelling and intellectually stimulating.

"We really have an extraordinary opportunity at Harvard to develop exhibits like this," Werby said, adding that the exhibit is aimed at the general public and the Harvard community alike.

"Language of Color" examines not just the uses of color for camouflage, mating, and warning, it also examines the structure of color, highlighting how the color blue, for example, is not made from pigments, as yellow and red are, but rather through physical structures that absorb longer wavelengths of light. Similarly, green is most often created by



Photo © Paul Bratescu/www.AnimalExplorer.com

Panther chameleon's swirl tail

creatures that have yellow pigment augmented by these blue physical structures.

Colors are also viewed differently by different creatures. Some, such as whales, do not have the color vision that humans do; their world is black and white. Other animals, like bees, see colors in the ultraviolet spectrum that humans don't, perceiving patterns on flowers invisible to the human eye.

Color patterns are critically important to the creatures that employ them, whether the potentially life-preserving stripes of a prey animal like the zebra or the concealing camouflage of a predator. Males of some species put on elaborately colorful displays to attract females. The displays, Hoekstra said, reflect a trade-off between a male's increased odds of mating and his increased visibility to predators. Some animals that are toxic use bright colors to warn off predators, while others that are nontoxic mimic those colors in an attempt to fool predators about their identity.

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Photo (below) Adam Blanchette/HMNH



'It's important to keep in mind that colors are used in different ways by different organisms,' said scientific adviser to the exhibit Hopi Hoekstra (left).



Photo © Paul Bratescu/www.AnimalExplorer.com

This astonishing looking creature is called a panther chameleon. It is one of the animals taking part in the exhibition 'Language of Color' at Harvard's Museum of Natural History. See story, page 32.

'Language of Color,' Harvard Museum of Natural History, 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., runs through Sept. 6, 2009.

Advance in pluripotent cell creation

HSCI researchers move forward producing iPS cells

By B.D. Colen
Harvard News Office

A team of Harvard Stem Cell Institute (HSCI) scientists has taken an important step toward producing induced pluripotent stem (iPS) cells that are safe to transplant into patients to treat diseases.

Excitement over the ability of researchers to create this form of stem cell by inserting four genes into adult cells has thus far been tempered by the fact that the genes have been inserted using retroviruses, which have the potential to "turn on" cancer genes and trigger tumor growth.

But today Konrad Hochedlinger and HSCI colleagues at Massachusetts General Hospital and Joslin Diabetes Center report having created mouse iPS cells using harmless adenoviruses that ultimately disappear from the new cells and therefore do not integrate into the host's DNA like the retroviruses.

"The adenoviruses infect the cells" carrying the genes needed for cellular reprogramming, "but are cleared by the cells after a few cell divisions," said Hochedlinger, an assistant professor in Harvard's new inter-school Department of Stem Cell and Regenerative Biology. "This wouldn't be harmful in any way because the DNA of the new cells remains unaffected," he said.

The report by the Hochedlinger group appears in the Sept. 25 online edition of the journal Science.

It has previously been believed that the viruses carrying the four essential transcription factors had to be integrated into the genome of the target cell in order for adult cells to be reprogrammed into pluripotent stem cells, "but we've shown that you don't need integration of the virus into the genome to produce iPS cells," Hochedlinger said.

Hochedlinger and colleagues Matthias Stadtfeld – the study's lead author – Masaki Nagaya, Jochen Utikal, and Gordon Weir, head of HSCI's Diabetes Program, have used the new technique to create iPS cells from mouse skin cells, and mouse fetal and adult liver cells.

"We get stem cell lines," said Hochedlinger. "They are all pluripotent" – meaning that they can become any type of cell –

(See HSCI, page 4)

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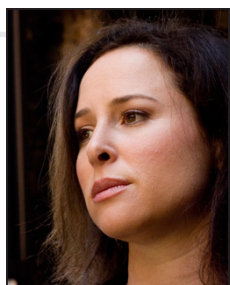
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Du Bois fellow explores childhood in contemporary America in moving feature film 'Little Fugitive.' **Page 31**

This month in Harvard history

Oct. 17, 1640 — The Great and General Court grants Harvard the revenues of the Boston-Charlestown ferry, which plies the shortest route between Boston and Charlestown, Cambridge, Watertown, Medford, and the plantations of Middlesex County. (From Charlestown, travelers could head for Connecticut.)

“The Charlestown ferry rent [. . .] was the most substantial and lasting financial contribution that the College received from the Colony, and for a time the only certain income,” notes historian Samuel Eliot Morison in “The Founding of Harvard College.”

“If New England had been old England, Harvard College would still be deriving an immense revenue from all passengers crossing the Charles by its several bridges. As it was, the College was ‘devested of its right’ in 1785, as President Quincy wrote, when the Charles River Bridge was built from Boston to Charlestown. The bridge corporation was required to pay to the College £200 or \$666.66 per annum for forty years, when the bridge was to become State property, ‘saving to the said College a reasonable and annual compensation for the annual income of the ferry, which they might have received, had not said bridge been erected.’ When this corporation was made bankrupt by the State’s building a free bridge next to its property, in 1828, the annuity came to an end; and the only compensation made to the College for the loss of this ancient source of income was a State grant of \$3,333.30 in lieu of five years’ income, in 1846.”

Oct. 7, 1642 — By order of the Great and General Court, a reorganized Board of Overseers becomes a permanent part of College governance.

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

MEMORIAL SERVICES

Richmond memorial program scheduled for Oct. 27

A memorial service honoring the life of Julius B. Richmond will be held Oct. 27 at 10 a.m. at the Harvard Club of Boston, 347 Commonwealth Ave. A reception will follow. A former U.S. surgeon general, Richmond held appointments at the Harvard School of Public Health, Harvard Medical School, and the Harvard Kennedy School. He died on July 27.

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.

POLICE REPORTS

Following are some of the incidents reported to the Harvard University Police Department (HUPD) for the week ending Sept. 29. The official log is located at 1033 Massachusetts Ave., sixth floor, and is available online at www.hupd.harvard.edu.

Sept. 25: In JFK Park, officers responded to a report of individuals smoking marijuana. The individuals had already fled once the officers had arrived. Backup generators went out at 29 Garden St., and officers were dispatched to secure the area. They notified Facilities Maintenance Operations and NSTAR of the situation.

Sept. 26: At Mount Auburn St., an officer was dispatched to assist with a motor vehicle accident with no personal injuries. At Memorial Church and William James Hall, officers responded to two reports of stolen bicycles. An officer was dispatched to Kirkland House to take a report of a stolen television speaker and Panasonic DVD player. At 10 Akron St., an officer was dispatched to a report of a damaged

garage door caused by a motor vehicle.

Sept. 27: Officers were dispatched to 107 Avenue Louis Pasteur to take a report of two damaged window screens. At Quincy House, officers were dispatched to take a report of a stolen Apple laptop. An officer was dispatched to 1 Western Ave., and took a report of a damaged motor vehicle in which an individual backed into and damaged another vehicle. The individual’s vehicle also sustained damage, but there were no personal injuries in the accident. At Winthrop House, officers were dispatched to a report of individuals drinking outside of the building. Officers returned after a report of intoxicated individuals behind the garage of Winthrop House. On both occasions, the individuals could not be located. Officers were dispatched to take a report of two individuals behaving suspiciously outside of Adams House. The individuals left the area before the officers arrived.

Sept. 28: Officers were dispatched to

the Pforzheimer House dining hall after an individual was threatened by another. The situation was later rectified. At Massachusetts Avenue and Everett Street, an officer assisted the Cambridge Police Department after an individual was struck by a motor vehicle and transported via ambulance to a medical facility. At 1900 Massachusetts Ave., officers responded to a report of two individuals involved in an altercation. An unattended coat and wallet were stolen at the Hemenway Gymnasium. On Radcliffe Campus Drive, an officer was dispatched to take a report of an attempted theft of a motor vehicle.

Sept. 29: Officers sent an unwanted guest sleeping in a doorway on his way at 8 Story St. Officers were dispatched to take a report of graffiti on a brick wall behind the Schlesinger Library. A bicycle was reported stolen at Cabot House, where the owner’s bicycle lock was cut and left at the scene. There were no suspicious individuals seen in the area at the time of the theft.

Turning a new leaf (or two)



Kris Snibbe/Harvard News Office

The trees in Tercentenary Theatre are showing unmistakable signs of the coming of fall.



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Lab aims to advance innovations in public education

A new education research and development laboratory at Harvard University will identify and advance strategies to improve student achievement in America's public schools, The Eli and Edythe Broad Foundation announced Sept. 25 at the Clinton Global Initiative.

The goal of the Education Innovation Laboratory (EdLabs) at Harvard University, funded in part by a \$6 million grant from The Broad Foundation, is to foster innovation and objective measurement of the effectiveness of urban K-12 school district programs and practices through rigorous research.

"The National Institutes of Health is the

engine for scientific and medical research, and the Defense Advanced Research Projects Agency develops innovations in technology and security, but K-12 education has had no R&D agency that identifies and researches the most effective innovations in our public schools," said Eli Broad, entrepreneur businessman and founder of The Eli and Edythe Broad Foundation. "There are pockets of innovation in K-12 public education today — innovations such as high-performing charter schools like KIPP [the Knowledge Is Power Program] and student incentives that increase academic performance. But we need to do more. In our nine years of working with

school districts around the country, we have identified the need for robust research and development to fuel the work of reform-minded education leaders and advance innovative practices. We believe that EdLabs is the R&D entity that will fulfill that need."

To jumpstart the \$44 million, three-year research and development initiative, EdLabs will partner with three of the largest urban school systems in the country: New York City Department of Education, Chicago Public Schools, and the District of Columbia Public Schools. EdLabs will bring together top scholars from a broad range of academic

(See **Lab**, next page)



Photos Kris Snibbe/Harvard News Office

At Harvard Hillel, Rachel Esplin '10 (from left) and Sadia Ahsanuddin '09 talk with Sally Quinn about their faith traditions. Quinn interviewed five students from five different religious backgrounds.

Quinn talks to students of various faiths

By Emily T. Simon
FAS Communications

If she can help it, Washington Post journalist Sally Quinn prefers to avoid the phrase "spiritual journey." Quinn, who co-moderates the blog "On Faith" with Newsweek editor Jon Meacham, finds the words overused. But she is quick to acknowledge that people's relationship to faith can change over time — and having interviewed hundreds of



Bernie Steinberg

scholars, politicians, and other American leaders about their religious viewpoints, she knows that the undergraduate years are often a period of remarkable transformation. "I always ask about college," Quinn said, "because often people will say that when they got to college they became confused, they started questioning their own religious traditions, or they rejected what they had learned as children."

"So this is an excellent time for you to be having a discussion about faith," she said,

looking at the group of students and chaplains gathered in Beren Hall at Harvard Hillel on Sept. 23.

The group was there for a lunchtime panel called "Engaging Religious Difference: Personal Quests for Purpose," during which Quinn interviewed five undergradu-

Blog Web site,

<http://newsweek.washingtonpost.com/onfaith/>

ates to elicit their spiritual biographies. The event was part of "Faith Live on the Harvard Campus: Personal Quest, Public Conversation, and Global Citizenship," a daylong series of events about the role of religion in life at Harvard and throughout higher education in general.

"It can be difficult for students to find a space where they can speak their mind on these issues," said Bernie Steinberg, president and director of Harvard Hillel and chairperson of the program. "We wanted to give students the opportunity to speak in their own voices and connect with each other on questions of meaning, faith, and purpose."

Sponsored by the Harvard Chaplains organization, the day included the panel at Hillel, conversations with members of the

Harvard Pluralism Project, dialogues among freshmen at Annenberg Hall, and fast-breaking prayers (Iftaar) with the Harvard Islamic Society. The culminating event — which drew a crowd of nearly 400 — was a "Celebration of Diversity and Hope" on the Science Center lawn. Students enjoyed dessert, interfaith musical performances, and a talk by Quinn, who addressed her own relationship to religion and spirituality.

The five students Quinn interviewed at Hillel come from diverse religious backgrounds: Sadia Ahsanuddin '09 is Muslim, Rachel Esplin '10 is Mormon, Ilan Caplan '10 is Jewish, Liz Cook '10 is Presbyterian, and Mihiri Tillakaratne '09 is Buddhist. Nearly 50 students, faculty, and chaplains — representing an equally varied group of faiths — gathered to hear their stories.

"I'm going to grill you," Quinn warned with a smile, before launching into the first interview. She asked each participant to share his or her religious upbringing, then inquired if the students' convictions had changed since coming to Harvard. Several of the panelists noted personal transformations.

"Lately I've been going through changes, boiling down what it means to be Christian,"

(See **Faith**, next page)

NEWSMAKERS

Harvard-affiliated gene study receives NIH funding

Two Harvard Medical School (HMS) professors of ophthalmology are co-principal investigators of a gene project that has received funding by the National Institutes of Health (NIH). **Lou Pasquale** and **Janey Wiggs**, both glaucoma researchers at the Massachusetts Eye and Ear Infirmary, are leading the grant-winning team of researchers that includes Vincent L. Gregory Professor in Cancer Prevention David Hunter of the Harvard School of Public Health, and Jae Hee Kang, an instructor in medicine. Theirs is the only Boston-led team to receive the competitive NIH award, which is being administered by the institute's Genes, Environment & Health Initiative. Specifically, the award was granted to researchers for studies of the genetic factors underlying stroke, glaucoma, high blood pressure, prostate cancer, and other common disorders. The grantees will use a genome-wide association study to rapidly scan markers across the complete sets of DNA, or genomes, of large groups of people to find genetic variants associated with a particular disease, condition, or trait. The Harvard-affiliated group will receive approximately \$850,000 for their research, "Genes and Environment Initiative in Glaucoma."

Herbert C. Kelman receives IPRA Peace Award

Herbert C. Kelman, the Richard Clarke Cabot Professor of Social Ethics Emeritus and co-chair of the Middle East seminar at Harvard University, has received the 2008 Peace Award from the International Peace Research Association (IPRA). The award, honoring the founders of peace research, was announced this past July at IPRA's global conference in Leuven, Belgium.

Engaged for more than 30 years in efforts toward the resolution of the Israeli-Palestinian conflict, Kelman is a pioneer in the development of interactive problem solving — an unofficial third-party approach to the resolution of international and intercommunal conflicts.

His major articles include "International Behavior: A Social-Psychological Analysis," and "A Time to Speak: On Human Values and Social Research," as well as his book, "Crimes of Obedience: Toward a Social Psychology of Authority and Responsibility" (with V. Lee Hamilton).

The IPRA is an international non-governmental organization seeking to advance transdisciplinary research into the conditions of sustainable peace.

AARP names Harvard a top employer for mature workers

Harvard University has been named one of the best employers in the nation for workers age 50 and over by the American Association of Retired Persons (AARP). Joining first-place selection Cornell, Harvard — which was ranked 34th — was one of only two Ivy League schools to be named to the list by AARP. Five academic institutions nationwide were declared winners.

To view the article, visit www.aarp.org/money/work/best_employers/articles/harvard_2008.html.

Lab

(Continued from previous page)

fields and will connect them with its own R&D teams that will be embedded in these three school districts.

"America was built on innovation, yet there has been far too little of it in education even though we are not getting the results we need or that our children deserve," said New York City Schools Chancellor Joel I. Klein. "EdLabs will encourage creative thinking to address the crisis in our classrooms and help us to understand what works and doesn't work when it comes to improving outcomes for our students. I applaud The Broad Foundation, Harvard University, and Dr. Roland Fryer for their commitment to this groundbreaking initiative."

"We are honored to be a part of this cutting-edge institute," said D.C. Public Schools Chancellor Michelle Rhee. "We believe that all children, regardless of background and circumstance, can achieve at the highest levels, and we want to ensure that our decisions at all levels are guided by the kind of robust data, analysis, and innovative thinking EdLabs will provide."

The principal work of EdLabs will include:

- Building a core database of student-level data to develop a detailed understanding of factors affecting student performance in Chicago, New York City, and Washington, D.C. EdLabs will use this new data to conduct rigorous empirical analyses to identify key leverage points for innovations.

- Developing and implementing new ideas that will be piloted in schools in the three partner districts. EdLabs and the partner districts have already designed programs that will examine student motivation through student incentives. The programs are designed to investigate whether incentives change student behavior and attitudes toward academic achievement — and thus improve academic performance.

- Evaluating existing programs and practices in the three partner school districts through a rigorous scientific lens to determine whether they are improving student achievement. EdLabs will also award a "Seal of Approval" for programs and interventions that work.

- Disseminating research findings to key policymakers and educators and quantifying the expected "student return from an investment" in a school or a district to help leaders direct their limited resources into high-return programs and initiatives.

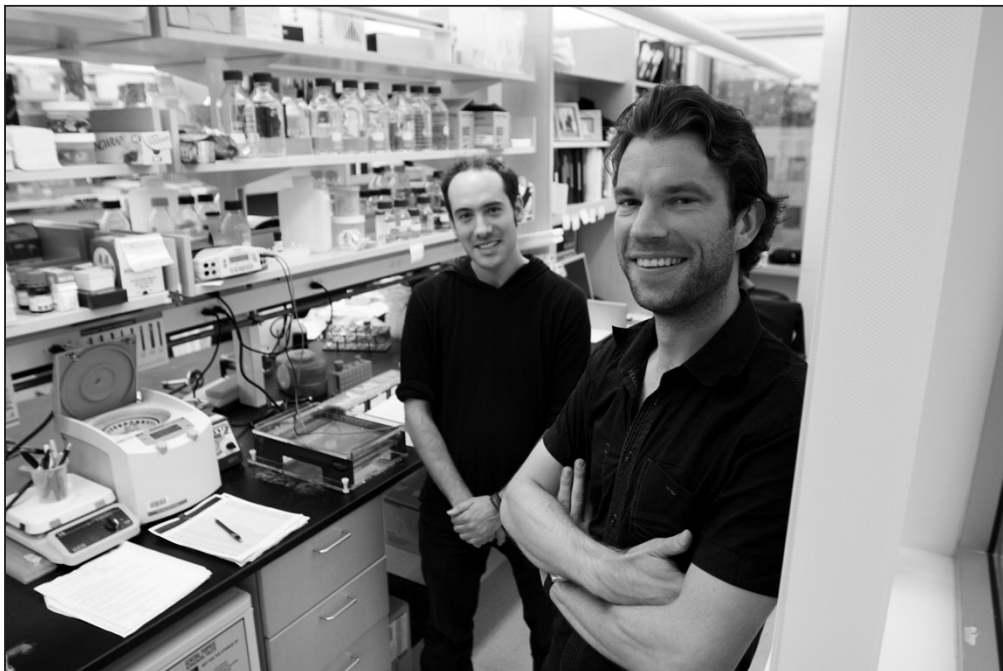
EdLabs will be headed by Roland G. Fryer Jr. of the Economics Department in Harvard's Faculty of Arts and Sciences; he will also serve as lead researcher. Fryer has researched the issue of racial inequality for the past decade. He has published papers on topics such as the racial achievement gap, the causes and consequences of distinctively black names, and affirmative action.

"If we aim to establish true equality of opportunity in education, we must be willing to take risks and explore innovative strategies," said Fryer. "The 'same-old' strategies have failed generations of students. There have been pockets of progress and beacons of hope, but not systematic changes in how we educate urban youth. Transformative thinking, along with a tough-minded, rigorous approach to designing and evaluating innovative education reforms, is essential if we want to truly improve. I would like to thank The Broad Foundation and Harvard University for supporting a long-overdue initiative to apply the same scientific standards of research and analysis to education reform as is expected in fields like medicine and technological development.

In addition to a grant from The Broad Foundation, EdLabs will receive support from Harvard University, the three participating school districts, and other foundations.

EdLabs will be housed administratively within the Institute for Quantitative Social Science (IQSS) in the Faculty of Arts and Sciences at Harvard University. IQSS has helped EdLabs build the infrastructure it needs to make its research possible and will continue to play an administrative advisory role going forward.

HSCI



Rose Lincoln/Harvard News Office

Konrad Hochedlinger (right) and his colleagues, including lead author of their recent study Matthias Stadtfeld (left), have taken a big step toward producing pluripotent stem cells that are safe to transplant into patients to treat diseases.

(Continued from page 1)

"and they have no traces of the adenovirus." Even more important, he said, thus far none of the mice carrying the new cell lines have shown any signs of developing tumors — and tumors were being frequently reported in mice carrying the cell lines created using retroviruses.

"The next step is to reproduce this

work using human cells, and there's no reason why it can't work," Hochedlinger said, adding. "This basically provides us with a system with which to test the question of whether iPS cells are the equivalent of human embryonic stem cells. That's a question that, in my opinion, hasn't been answered yet."

As Hochedlinger and his colleagues have been working to find viral substitutes for the use of retroviruses in the

production of iPS cells, some HSCI researchers are reported to be looking for chemicals that might be used in place of viruses, and some of those experiments are said to be quite promising.

The work reported Sept. 25 was supported by grants from the Harvard Stem Cell Institute and by a National Institutes of Health New Innovator Award given last year to Hochedlinger.

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Faith

(Continued from previous page)

said Cook. "I've stripped away the layers and discovered that the most important thing for me is my relationship with Jesus Christ."

Esplin, who is president of Harvard's Latter-day Saint Student Association, noted that the pluralism she encountered at Harvard helped invigorate her beliefs.

"Where I am from in southeast Idaho there isn't a lot of religious diversity," she said. "It has strengthened my faith to learn about others."

Ahsanuddin, on the other hand, recounted a difficult soul-search.

"My faith was strengthened here, but it was a rough ride," she said. "When I first came to Harvard I started to question my faith. I wondered, is there even a God if people are believing so many different things? How should I approach ideas of objective morality and truth?"

After a long struggle, Ahsanuddin's convictions were reaffirmed.

"I had enough to base my faith on, enough to ease my qualms, that I was willing to take the step and accept Islam and all else that came with it," she said. "I realized I am definitely a Muslim and that's that." Ahsanuddin also mentioned that she found the Harvard Islamic Society to be a supportive resource as she grappled with religious questions.

Noting that Harvard students were a busy crowd, Quinn asked several panelists how they found time for prayer.

"I do the 'official' prayers three times a day," Caplan said, "but I also leave time for individual prayer, such as when I'm walking through Harvard Yard or before an event during which I would like God

to be with me in a more conscious way." Tillakaratne had a similar response.

"I meditate at least two or three times a week for 15 to 30 minutes," she said. "But I also try to be aware of each moment while walking down the street to class. For me, meditation is an ongoing thing," she added.

When asked if she was able to clear her mind, Tillakaratne laughed.

"As a senior worrying about exams and finding a job next year, it's hard to find clarity of mind! But meditation does help. It takes me at least 10 minutes of meditation to stop worrying and calm down to a point where I can be fully present," she said.

A few of Quinn's questions focused on practical matters such as clothing and marriage.

"Will you marry someone Jewish?" she asked Caplan.

"It is very important to my family, and I don't take that lightly," he said. "It is also important to me to continue my identity which is intimately connected with Judaism. The people who are closest to me — my family — I expect I will need to be able to share that piece of my identity with, both practically and internally, and so it is probable that I will end up marrying someone Jewish, though I can imagine other options as well."

Quinn then asked, "What do you feel about the watering down of Judaism through intermarriage, such as concerns so many Jewish leaders?"

"I'm uncomfortable with the terminology of 'watering down,'" Caplan replied, "because I think individuals can find great fulfillment in interfaith relationships, and I think the mixing of reli-

gions can lead to higher spiritual awareness as much as it can lead to anything else."

Ahsanuddin's interview took a lighthearted turn when Quinn asked her how she keeps her headscarf in place.

"We use safety pins, and you can also wear a cap underneath to fit the cloth over so it won't slide," she said. "Curly hair doesn't give you as much trouble."

On a more serious note, Quinn was curious to know if the students had encountered religious intolerance.

"People are often critical of the Mormon religion and sometimes call it a cult," she said to Esplin. "Have you experienced this?"

"The vast majority of people are incredibly open-minded at Harvard," Esplin said. "There is always a lot of curiosity, though, because people don't know a lot about Mormonism."

Ahsanuddin, who is from the Bronx, said that she experienced hostility and tension following the events of 9/11.

"People would say, 'Why don't you just go back to where you came from?' or they would stare coldly," she said.

In Beren Hall, though, the atmosphere was nothing but respectful. Personal opinions may have differed, but the commitment to the broader project — discussing faith in an open, tolerant environment — was evident among all five panelists.

"Giving people the opportunity to speak about their own religious identity is the first step in building bridges to others," Steinberg said. "We hope that the transfer and exchange of values will lead to real, positive action in the world."

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Rose Lincoln/Harvard News Office

Poet Seamus Heaney, who has had a long and fruitful relationship with Harvard, read to a packed house at Sanders Theatre. Included in his repertoire were some verses about a university where the 'books stood open and the gates unbarred.'

Heaney 'catches the heart off guard'

Nobel laureate moves, amuses Sanders Theatre audience

By **Corydon Ireland**
Harvard News Office

Over the years, readings by poet Seamus Heaney have been so wildly popular that his fans are called "Heaneyboppers."

A reading this week at Sanders Theatre, sponsored by Harvard's Department of English and American Literature and Language, was no exception. The event's free tickets were gone weeks ago, within hours, and on Tuesday (Sept. 30) a crowd of about 1,000 packed into the theater's stately tiered seats.

It was Heaney's first reading at Harvard in four years, and he called the event "an overwhelming moment to be here, one of the greatest moments of my life."

Introducing him was poetry scholar Helen Vendler, Harvard's A. Kingsley Porter University Professor. She called the Northern Ireland native "a poet of the century, and the new century, but also a poet of Harvard."

As much as he is a part of the world, said Vendler, Heaney has been for almost three decades a part of Harvard, too. (Starting in

1984, he has been, variously, Harvard's Bolyston Professor of Rhetoric and Oratory, and the Ralph Waldo Emerson Poet-in-Residence.)

Two of Heaney's poems, she said, were "gifts" to Harvard. "Alphabets" was composed for the 1984 Phi Beta Kappa Exercises. It's a child's-eye view of language, from the first letters in chalk, through the Latin and Gaelic of boyhood, to the sense of wordless wonder that survives adulthood. "As from his small window/The astronaut sees all he has sprung from."

"Villanelle for an Anniversary" was delivered in Tercentenary Theatre in 1986, the year that marked the 350th anniversary of Harvard's founding. The poem, Heaney explained later, was an attempt to answer the question: "How do people listen to a poem over a loudspeaker?"

The answer, he said, was the villanelle, a poetic form that employs repeated rhyming refrains. The strictly formatted 19-line poem was the first villanelle he had ever written, said Heaney, "and should be the last."

Vendler liked the poem for its evocation

of Harvard Yard, and what its words said about the receptive and absorbing beauty of a university. "The books stood open," reads the poem's refrain, "and the gates unbarred."

Between poems, Heaney unbarred some personal gates, including oblique references to his Irish boyhood, his "fiddling" of late with Book VI of "The Aeneid," and his "getting started again" after being stopped by a stroke (in 2005). "Very lovely," said Heaney, "to get started again."

The poet's gratitude at survival intertwines with Virgil's old epic. Musing on the hero Aeneid's journey to the underworld, where he sees a vision of Rome's future, Heaney said, "I end up above ground, with a grandchild. That's my vision of the future."

His as yet unpublished reworking of Virgil's tale in an Irish landscape — complete with Lethe-like Irish fishing rivers — is dedicated to his grandchildren.

He read "Canopy," another Harvard poem, which recalls a 1994 art installation in Harvard Yard that included rigging the

(See **Heaney**, next page)

Harvard, MIT, Yale presses join forces to help rebuild Iraqi National Library

Last week, more than 5,700 books were shipped from TriLiteral, the warehouse that holds inventory for Harvard University Press, The Massachusetts Institute of Technology (MIT) Press, and Yale University Press, to help replenish the Iraqi National Library. The three presses have partnered with the Sabre Foundation, whose book donation program has a long history of helping get educational materials to countries in need — often those engaged in or recovering from conflict. The Sabre Foundation (working with a grant from the United States Embassy in Baghdad) covered the logistics and shipping of the titles.

"Harvard University Press is delighted to collaborate with the Sabre Foundation to help restore in some small way the intellectual capital that has been destroyed in this tragic war," said William P. Sisler, director of Harvard University Press.

Libraries are one of the cornerstones of Iraqi culture. By the 1970s, Iraqi higher education was widely considered to be the best in the region. Due primarily to the war with Iran in the 1980s and the U.S. invasion in 2003, higher education and the libraries that serve it have been devastated. An effort like the Sabre program to rehabilitate principal Iraqi library collections is necessary if Iraq is to re-establish a high standard of education and knowledge. Of the project, Yale University Press Director John Donatich remarked, "Yale University Press is happy to participate in this initiative and pleased that the gift of our books will play a central role in helping Iraq in its efforts to rebuild its cultural heritage."

This initiative is focused on the Iraq National Library and Archive (INLA), and the libraries of Baghdad University, Mustansiriya University, and Baghdad Technical University, whose heads have committed themselves to act in concert in this process. Harvard, MIT, and Yale each provided a list of titles to the Iraqi librarians and allowed them to choose the titles — up to three of each book selected — they thought would be the most appropriate.

The librarians chose more than 5,700 titles (roughly 2,500 from Harvard and 1,600 from both MIT and Yale). The books chosen cover a wide range of subjects and disciplines, including philosophy, law, history, art, and environmental studies. They include textbooks, new titles, and classic monographs from all three presses. "Good things come from collaboration," commented MIT Press Director Ellen W. Faran. "In this case, the three TriLiteral partners — Harvard, MIT, and Yale university presses — working together to respond to a request from four Iraqi libraries jointly seeking to rehabilitate their collections."

Incoming HSPH dean receives Clinton Global Citizen Award

Julio Frenk, who will become dean of the Harvard School of Public Health in January 2009, has received a Clinton Global Citizen Award.

In naming Frenk, along with four other individuals, former President William J. Clinton said, "The Global Citizen Awards are about honoring and inspiring service to humanity. Our award recipients were chosen from a pool of remarkable candidates. Their innovation, dedication, and determination have changed lives, and their actions serve as models of what each of us can do to make a difference in the world."

Frenk is the former minister of health of Mexico and is currently a senior fellow at the Bill & Melinda Gates Foundation and president of the Carso Health Institute.

In the official announcement of the award, the Clinton Foundation described how Frenk "has changed the way practitioners and policymakers across the world think about health. As a result of Frenk's work as minister of health of Mexico, Mexican health insurance is expanding access to quality care for almost 50 million Mexicans. ... His ongoing work continues to deliver a greater

focus on evidence-based decision making with life-saving results."

Commenting on the announcement, Harvard University President Drew Faust said, "We at Harvard are so pleased that the Clinton Foundation has brought recognition to the global humanitarian contributions of extraordinary people such as Dr. Frenk. As a new dean here, Dr. Frenk will bring to bear his important global vision and interdisciplinary approach to the work of our School of Public Health and to the entire University."

The other Global Citizen Award recipients were Jennifer and Peter Buffett, co-chairs, NoVo Foundation; Xiaoyi (Sheri) Liao, founder and president, Global Village of Beijing; and Neville Isdell, chairman of the board, the Coca-Cola Co.



File Justin Ide/Harvard News Office

In early September, President Drew Faust (right) announced Julio Frenk's appointment as dean of the HSPH.

Heaney



Rose Lincoln/Harvard News Office

The Sanders Theatre crowd listens intently as Seamus Heaney reads his poems. Heaney noted that he had read poems all over campus, in halls from Emerson and Agassiz to Memorial, but 'this,' he said, 'is the acme of it.'

(Continued from previous page)

trees overhead with speakers and recorded sounds. For Heaney, that called to mind "a congregation of leaves, or a wood that talked in its sleep."

For 24 years, Heaney said, he has read poems all over campus, in halls from Emerson and Agassiz to Memorial — the stuff of fond memory. "This," said Heaney, "is the acme of it."

One reason, he said, is that "it's always worth coming back to hear Helen's introductions" — offering as they do "complete renovation for oneself." The 1995 Nobel laureate called Vendler "one of the great teachers of the 20th century, one of the great guardians of poetry, one of the great hearers and helpers of the work."

Heaney is a mellifluous reader of his own work, equipped as he is with a resonant Irish

voice and a gift for pauses that surrender a poem's meaning in a way that reading on the page cannot.

It was apt that the first piece he read was "a poem about hearing things," noted Heaney. "The Rain Stick" memorializes his amazed discovery of a traditional Chilean instrument, a hollowed tube of cactus filled with beads or beans that cascade rain-like against inner pins when the tube is upended.

"... And now here comes/A sprinkle of drops out of the freshened leaves,/Then subtle little wets off grass and daisies;/Then glitter-drizzle, almost-breaths of air."

To hear such a sound, "You are like a rich man entering heaven," the poem reads, "Through the ear of a raindrop."

Heaney's careful language — grounded and surprising — was a joy to hear from the man himself.

In "Settings," he read of staring into a clear harbor seabed, where there was "Perfected vision: cockle minarets/ Consigned down there with green-slicked bottle glass,/Shell-debris and a reddened bud of sandstone."

Apt again, Heaney ended his Harvard reading with "Postscript." An autumn car ride along the coast of western Ireland evokes the act of reading poetry — transportation by words alone to a magical world just beneath the material one. "You are neither hear nor there," the poem says at the end.

A hurry through which known and strange things pass
As big soft buffetings come at the car sideways
And catch the heart off guard and blow it open.

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SPORTS WRAP-UP

Men's and Women's Cross Country

M - (1st) Harvard: 21; (2nd) Yale - 36
W - (1st) Princeton: 15; (2nd) Harvard: 53;
(3rd) Yale: 71

Field Hockey (2-5; 1-1 league)

L vs Pennsylvania 0-2

Football (1-1; 0-1 league)

L at Brown 24-22

Women's Golf

Fall Intercollegiate at Yale 1st/19

Coed Sailing

Hood Trophy at Tufts 9th/24
New England Women's Singlehanded Championship
at Connecticut College 5th/17

Men's Soccer (3-4-2; 0-1-0 league)

L vs Boston University 1-5

Women's Soccer (3-3-3; 0-1-0 league)

L vs Pennsylvania 0-2

Women's Volleyball (6-7; 1-0 league)

W vs Bryant 3-1
W vs St. Francis 3-0
W at New Hampshire 3-2

UPCOMING SCHEDULE

The week ahead (Home games in bold)

Friday, Oct. 3

W Volleyball **Dartmouth** 7 p.m.
M Water Polo **Pepperdine** 5 p.m.

Saturday, Oct. 4

Field Hockey Brown noon
Football Lafayette 1 p.m.
M Golf MacDonald Cup TBA
M Heavyweight Crew
Head of the Oklahoma all day
Sailing Smith Trophy 9:30 a.m.
Sailing Women's Regis Bowl 9:30 a.m.
Sailing Central Series Four 9:30 a.m.
Sailing Danmark Trophy 9:30 a.m.
M Soccer **Yale** 2:00 p.m.
W Soccer **Yale** 11:30 a.m.
M Water Polo Loyola Marymount 2 p.m.

Sunday, Oct. 5

M Golf MacDonald Cup TBA
Sailing Smith Trophy 9:30 a.m.
Sailing Women's Regis Bowl 9:30 a.m.
Sailing Danmark Trophy 9:30 a.m.
Sailing **Harvard Invite** 9:30 a.m.
M Water Polo TBA TBA

Visit www.gocrimson.com for the latest scores and Harvard sports information or call the Crimson Sportsline (617) 496-1383.

SPORTS BRIEF

Another tournament win for women's golf team

There was not enough rain to keep the women's golf team from winning its third tournament in three appearances this season at the Fall Intercollegiate at Yale University (Sept. 27-28). Competing against elite teams from the Northeast, the Crimson placed first out of 19. Crimson top performer, junior Claire Sheldon, finished tied for fourth, shooting a 73 (+2).

Harvard played well enough to lead Saturday's round when heavy rains forced play to be suspended. The next day, officials were unsure if there would be enough time to complete the first round and also play Sunday's round. They chose to wipe out results from the previous day, making only Sunday's results official.

— Gervis A. Menzies Jr.



Rose Lincoln/Harvard News Office

One student's backpack is an indication that Harvard works hard for its A- environmental report card.

Al Gore to celebrate sustainability at Harvard

Former Vice President Al Gore will be coming to campus on Oct. 22 for the first-ever University-wide celebration of sustainability. The event, hosted by President Drew Faust, will mark the official launch of the University's new greenhouse gas reduction effort and will also celebrate Harvard's broader environmental initiatives, including the critical role the University plays in teaching and research in this area.

Faculty, staff, and students are invited to Tercentenary Theatre beginning at 3 p.m. for food and refreshments. Gore will deliver the Robert Coles Call of Service Lecture, which is sponsored each year by the Phillips Brooks House Association. His talk begins at 4 p.m.

Full details of the day's program and related events can be found at www.green.harvard.edu.

Environmental report card grades Harvard A-

Sustainable Endowments Institute reviews, assesses green campuses

By Alvin Powell
Harvard News Office

Harvard received the highest ranking in a recent "College Sustainability Report Card" that graded the green credentials of 300 colleges and universities.

Harvard received high ranks for an array of activities, including recycling, green buildings, energy supply, transportation, and student involvement. Overall, the University was among 15 nationwide that received the top A- grade, earning Harvard the title of Overall College Sustainability Leader.

Harvard Executive Vice President Ed Forst said that though the grade is a validation of Harvard's current efforts, the University is focused on how it can continue to lessen its impact on the environment and forge new ways for universities and other institutions to operate sustainably.

"This is a critical time to transform institutions like Harvard and continue decreasing our impact on the environment as we seek to lessen the damage our society does to the planet," Forst said. "We are poised to build on the impressive start made by active and committed members of the University community. Our goal is to continue improving Harvard's efforts and embedding sustainability into the culture of our institution."

The Report Card was released Sept. 24 by the Cambridge-based Sustainable Endowments Institute. Other schools earn-

Statement on the Report of the Harvard Greenhouse Gas Task Force,

www.president.harvard.edu/speeches/faust/080708_greenhouse.html

Special report on Harvard's sustainability at work,

[/www.hno.harvard.edu/multimedia/specials/green/index.html](http://www.hno.harvard.edu/multimedia/specials/green/index.html)

ing top marks were Brown, Columbia, Dartmouth, Penn, Stanford, Carleton, Dickinson, Middlebury, Oberlin, the University of Colorado, the University of New Hampshire, the University of Vermont, the University of Washington, and the University of British Columbia in Canada.

"The College Sustainability Report Card is the only independent evaluation of sustainability in campus operations and endowment investments and it has the highest response rate of any college sustainability ranking or rating," Mark Orłowski, executive director of the Sustainable Endowments Institute, said in a statement.

The honor is just the latest recognition Harvard has received for its efforts to make the University as environmentally friendly as possible. While changes in University operations have been led by the Harvard Green Campus Initiative, which has a suite of programs aimed at everything from energy conservation to recycling to education, individual Schools and departments have also recognized the growing impera-

tive that the University make its operations increasingly sustainable. The University's faculty have also long been involved in green efforts in their teaching and research, educating generations of students about the challenges and opportunities involving the environment and crafting innovative solutions in a host of fields, from building design to government programming to business operations to technological know-how.

Harvard's Associate Vice President for Facilities and Environmental Services Thomas Vautin said that Harvard's commitment to sustainability has increased every year since 1999, when the Harvard Green Campus Initiative was launched.

In the past year alone, Vautin said, Harvard has established new green building guidelines for construction and renovation projects and has set significant new goals to reduce greenhouse gas emissions through 2016.

"We have made a substantial commitment through the engagement of a large number of faculty, staff, students, and administrative departments, all of whom are dedicated to advancing sustainability across the University," Vautin said. "I anticipate that all corners of the University—students, faculty, and staff—will continue to help the University advance its record in this arena."

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Broad Institute gets major grant for epigenomics research

By Nicole Davis

Broad Institute of Harvard and MIT

Researchers at the Broad Institute of Harvard and MIT announced Sept. 30 that they have received a grant from the National Institutes of Health (NIH) to map the epigenomes of a variety of medically important cell types, including human embryonic stem cells.

The five-year, \$15 million grant, part of the NIH Roadmap for Medical Research, designates the institute as one of four Reference Epigenome Mapping Centers (REMC) nationwide that will aim to transform the understanding of an exquisite control system — a code of so-called epigenetic cues that specify when and where in the body genes are made active. To systematically decipher and analyze these controls, researchers from across the Harvard and MIT communities will come together to study at least 100 distinct types of human cells using the latest methods in stem cell biology, genomics, technology, computation, and production-scale research.

“The human epigenome is arguably the next frontier of genomic research,” said co-principal investigator Alex Meissner, who is an associate member at the Broad Institute and an assistant professor in the Department of Stem Cell and Regenerative Biology at Harvard University. “Bolstered by recent technological advances, this award will enable us to create comprehensive epigenomic maps of a variety of human cells and to share that data with the worldwide scientific community.”

“Epigenomics lies at a key intersection point between genome biology and human disease,” said Bradley Bernstein, a co-principal investigator as well as a Broad Institute associate member and an assistant professor at Harvard Medical School and Massachusetts General Hospital. “By glimpsing the normal epigenome at unprecedented breadth and depth, we will lay the critical groundwork for future insights into the epigenetic basis of a variety of diseases, including cancers.”

An overarching question in human biology is how cells in the body, with the exact same DNA, adopt such distinct forms and functions. The answer lies mainly in the epigenome, a special code of chemical tags affixed to DNA or to its supporting proteins (known as “histones”) that act as gatekeepers to the genome — enabling genes to be switched on or ensuring they remain switched off. In the past few years, two techniques have transformed researchers’ abilities to probe cells’ epigenomes: ChIP-Seq and high-throughput bisulfite sequencing (HTBS). These technologies can help pinpoint the genomic locations of various types of chemical tags, such as methyl groups, and thus chart the epigenome.

REMC at the Broad Institute will help create comprehensive, genome-scale maps of the epigenomes of a variety of cells, including human embryonic stem cells, various adult stem cells, and other key cell types. The researchers will survey both the DNA backbone and its accompanying histone proteins for chemical modifications using HTBS and ChIP-Seq, respectively, which take advantage of the increased throughput and decreased cost of next-generation DNA sequencing, and provide unprecedented precision and genomic coverage.

Just as the Human Genome Project provided researchers with a draft genome sequence, the REMCs will help create draft epigenomic maps of a diverse set of cell types. Those data will serve as a vast resource for the scientific community to enhance the understanding of epigenetic mechanisms of disease, pinpoint novel molecular targets for therapy, complement ongoing investigations of the genetic susceptibilities of a wide range of diseases, and bolster current research in stem cell biology and regenerative medicine.

The NIH award to the Broad Institute represents one of four areas of epigenomic research to receive funding under the NIH Roadmap Epigenomics Program. In addition to the work of the epigenome mapping centers, other funded centers will focus on epigenomics data analysis and coordination, technology development in epigenetics, and the discovery of novel chemical tags that mark the epigenomes of mammalian cells.

Dental School’s Goldhaber dies at 84

Dean for 22 years charted new course for dental education

Paul W. Goldhaber, dean of the Harvard School of Dental Medicine (HSDM) for 22 years, died this past July 14 from complications of pancreatic cancer. He was 84.

OBITUARY

While dean, from 1968 to 1990, Goldhaber chartered a new course for dental education, overseeing major changes in the School’s dental curriculum and playing a major role in creating what he called “the era of enlightenment” in teaching and clinical practice. HSDM Dean Bruce Donoff said of Goldhaber, “He was truly a giant in the field of dental education and research. He firmly believed that science and discovery and research should be part of dental practice and dental education.”



Goldhaber

The eldest of three sons born to Polish immigrants, Goldhaber grew up in New York City speaking Yiddish as his first language. He graduated from Townsend Harris High School in New York City. After joining the Army, he was chosen for its Specialized Training Program, which funneled academically gifted enlistees into colleges during wartime. He graduated from the New York University (NYU) College of Den-

istry in 1948. While in the service, he met Ethel Renee Gurland, and the couple married in 1949.

Leaving the Army after active duty during the Korean War as a first lieutenant in the Dental Corps, Goldhaber completed his periodontology specialty training at Columbia University. He then ventured north to Boston and HSDM. He became an HSDM research assistant in 1954, as assistant professor of oral pathology in 1959, and professor of periodontology in 1962. In 1968, Harvard President Nathan Pusey appointed Goldhaber dean of the Harvard School of Dental Medicine.

Goldhaber said recently in a University of California, Los Angeles, commencement address, “I was the first Jew in Harvard University’s 332 years of existence to become a dean of one of its Schools.” In fact, many of his actions were well ahead of their time. As dean, he diversified the student body both ethnically and racially. He encouraged public service, research, and advanced education, making a significant contribution to the preparation of leaders in the profession. He added a compulsory fifth year of study at the Dental School, during which time students could choose to do research or obtain an advanced degree. He also expanded the School’s subspecialty degree programs and established with Harvard Medical School (HMS) a combined D.M.D./M.D. program in oral surgery.

“I had the good fortune,” said Donoff, “to chair the *Festschrift* when Paul stepped down.” The event honored Goldhaber for all his accomplishments, highlighting two specific areas. “The first,” Donoff said, “was his belief in the

importance of research in dental education. The second was his belief in a liberalized, more flexible dental curriculum to produce lifelong learners. Dr. Goldhaber’s own research laid the foundation for advances in bone biology and dental implants, which ushered in a new era of dentistry, enabling tooth implantation to become a routine dental procedure.”

Charles N. Bertolami D.M.Sc. ’78, dean of the NYU College of Dentistry, noted that a great number of leaders in dentistry and dental education throughout the United States view Goldhaber as their personal mentor and model. Said Bertolami, “Dr. Goldhaber elevated the stature of dentistry within the university as both a learned profession and a caring profession.”

Retiring as dean *emeritus* in 1990, Goldhaber continued to teach for many years. He regularly attended dinners and events at the School. In addition to his other national leadership positions and numerous publications, Goldhaber served as chair of the dental study section of the National Institutes of Health and was president of the American Association of Dental Research and of the International Association of Dental Research. He was a member of the National Academy of Science’s Institute of Medicine.

Goldhaber is survived by his wife Ethel Renee (Gurland) Goldhaber; two brothers, Stanley of Port Washington, N.Y., and Norman of Boynton Beach, Fla.; sons Samuel and Joshua; and four grandchildren. Remembrances may be made to the Dr. Paul Goldhaber Fund at the Harvard School of Dental Medicine.

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A more perfect union



Stephanie Mitchell/Harvard News Office

At Massachusetts Hall, President Drew Faust greets the president of the European Union (EU) José Manuel Barroso, his wife Margarida Sousa Uva, and John Bruton, ambassador of the EU to the United States.

Financial risk-taking behavior is associated with higher testosterone

By Amy Lavoie
FAS Communications

Higher levels of testosterone are correlated with financial risk-taking behavior, according to a new study in which men's testosterone levels were assessed before participation in an investment game. The findings help to shed light on the evolution-

ary function and biological origins of risk taking.

The study was jointly led by Anna Dreber, of the Program in Evolutionary Dynamics at Harvard University and the Stockholm School of Economics, and Coren Apicella, of Harvard's Department of Anthropology. The results are available online in *Evolution and Human Behavior*.

"These findings help us to understand the motivations for risk-taking behavior, which is a major component of economic theory," says Dreber. "Risk preferences are one of the most important preferences in economics, and yet no one knows why they differ between men and women, why they change over age, or what makes men trade more in the financial market."

Previous studies have shown that on average, men are more likely than women to take risks, and the researchers theorized that these differences could be explained by the role of testosterone. Another recent study also demonstrated that stock market traders experienced greater profits on days

(See *Testosterone*, next page)



Photos Kris Snibbe/Harvard News Office

Audience members in a crowded Sanders Theatre listen as a group of wise women and men grapples with the complexity and anxiety attending the ongoing worldwide financial crisis. President Drew Faust (below), who convened the panel, was also one of the participants in the discussion, which was titled 'Understanding the Crisis in the Markets: A Panel of Experts.'

Experts attempt to parse the 'crisis in the markets'



Panel finds many causes, not so many solutions

By Ruth Walker
Special to the Harvard News Office

"We've been in a slow-motion train wreck ... and now it's just a train wreck."

This quip, by Jay Light, Dwight P. Robinson Jr. Professor of Business Administration and dean of Harvard Business School (HBS), was one of the observations offered at a panel discussion Sept. 25 intended to explain the Wall Street financial crisis to the Harvard community.

The six-member panel, convened on short notice by Harvard University President Drew Faust, filled Sanders Theatre even as Congress struggled in Washington to work out a deal to restore the functioning of the nation's financial markets.

The panelists explained in turn how the current situation on Wall Street is more than the worst financial crisis since the Great Depression:

The problem of a "severely weakening middle class" constrained by stagnating real incomes at a time of price increases on all fronts, particularly healthcare and educa-

tion, according to Robert Kaplan, professor of management practice at HBS.

A crisis that, "at its heart," was caused by "selling mortgages that were simply unsustainable... a dirty product," according to Elizabeth Warren, Leo Gottlieb Professor Law.

An indication of a bloated financial services sector that needs to slim down to greater efficiency if it is to regain its stature as a flagship sector of the U.S. economy, ac-

For the archived Webcast,

<http://video2.harvard.edu:8080/ramgen/AAD-PAN/FinMktsPanel.rm>

According to Kenneth Rogoff, Thomas D. Cabot Professor of Public Policy.

An illustration of the principle that "there is a structural relationship between innovation and potential crisis" and that the regulatory infrastructure that protects against crises takes time to develop, according to Robert Merton, John and Natty McArthur University Professor.

And it's also, according to Light, the first real test of the de facto new system of housing finance introduced over the past 15 years.

In the system that prevailed until the early 1990s, Light said, the entities that orig-

inated loans — typically local savings and loan associations — tended to hold them. Thrifts evaluated prospective borrowers themselves and assumed all the risk of the loan.

But recent years have seen the rise of national mortgage companies that originate loans and then resell them. Eighty percent of such mortgages end up in the portfolio of Fannie Mae and Freddie Mac, and the riskier ones end up on Wall Street. The effort to spread risk is in principle a good idea. But in fact, as Warren explained, this slicing and dicing means that there are "a thousand different entities that own a piece of your mortgage," and that in case of trouble, there is "no single entity properly authorized and properly incentivized to work out a deal the way the old-time investor would."

The problem was compounded when the insurance giant AIG offered (unregulated) credit default swaps. This amounted, in Warren's view, to "offering insurance on mortgages doomed to fail."

She called for changes in the bankruptcy laws and for a "financial product safety commission" similar to the Consumer Product Safety Commission. She noted that in the United States, "every physical product that

(See *Economics*, next page)

Testosterone

(Continued from previous page)

their testosterone was above its median level. However, this is the first study to directly examine the relationship between testosterone and financial risk-taking.

"Although our findings do not address causality, we believe that testosterone may influence how individuals make risky financial decisions," says Apicella.

In the study, saliva samples were taken from 98 males, ages 18 to 23, who were mostly Harvard students. The samples were taken before participation in the investment game, so the researchers were certain that testosterone levels were not elevated as a result of the game. The researchers also assessed facial masculinity, features that are associated with testosterone levels at puberty.

All of the participants were given \$250, and were asked to choose an amount between \$0 and \$250 to invest. The participants kept the money that was not invested. A coin toss determined the investment's outcome, and if the participant lost the coin toss, the money allocated to the investment was lost. However, if the coin toss was won, the participant would receive two and a half times the amount of their investment. At the end of the study, one person was selected by lottery to receive the cash amount of their investment, which created a monetary incentive for the participants.

The researchers found that a man whose testosterone levels were more than one standard deviation above the mean put 12 percent more than the average man into the risky investment. A man with a facial masculinity score of one standard deviation higher than the mean invested 6 percent more than the average man.

The findings may help to explain the biological foundation of why some people are more inclined toward taking risks than others.

"Financial risk might be comparable to other risky male behaviors associated with reproduction," says Apicella. "Men may be more willing to take financial risks because the pay-offs, in terms of attracting mates, could be higher for them. This is because women value wealth more than men do when choosing a mate."

Further research will examine changes in testosterone levels in response to financial wins and losses.

"This will give us some insight into how changes in the market affect hormones, and in turn, affect decision-making," says Apicella.

Finally, the researchers are also exploring the role of genetics in explaining risk preferences.

"Maybe we will be able to predict who becomes a trader," says Dreber.

Apicella and Dreber's co-authors were Benjamin Campbell of the University of Wisconsin, Milwaukee; Peter B. Gray of the University of Nevada, Las Vegas; Moshe Hoffman of the University of Chicago; and Anthony C. Little of the University of Stirling, Scotland. The research was funded by the Jan Wallander and Tom Hedelius Foundation.

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Leadership panel to advise on business, human rights

John Ruggie, U.N. Secretary-General Ban Ki-moon's special representative for business and human rights, recently announced that he is convening a leadership panel to advise him on how best to ensure that businesses worldwide respect internationally recognized human rights standards.

The panel includes Ban Ki-moon's predecessor as secretary-general, Kofi Annan, as well as Mary Robinson, the former president of Ireland who also served as U.N. high commissioner for human rights. They are joined by 13 other leaders from business, diplomacy, and civil society around the world.

Ruggie, a professor at Harvard Kennedy School (HKS) who served as Annan's strategic adviser from 1997 to 2001, has been special representative of the secretary-general (SRSG) for business and human rights since 2005.

Earlier this year, after extensive consultations with business, government, and nonprofit human rights groups on five continents, he completed the first phase of his mandate by proposing a broad policy framework for business and human rights, based on three core principles: the state's duty to protect against human rights abuses by third parties, including business; the responsibility of corporations to respect human rights; and the need for victims of corporate-related human rights abuses to have easier access to more effective remedies.

Ruggie will continue to consult with a

wide range of stakeholders, notably through meetings and workshops in different regions, ensuring that all viewpoints are heard in the further elaboration of the "protect, respect, remedy" framework. On announcing the panel's formation, Ruggie said, "I am honored and immensely grateful to have such an esteemed, experienced, and diverse group of thought leaders engaged in this critical effort to achieve better protection of human rights with regard to business activity."

The panelists are as follows:

Kofi Annan (Ghana), former secretary-general of the United Nations

Souhayr Belhassen (Tunisia), president, Fédération Internationale des Ligues des Droits de l'Homme

John Browne (United Kingdom), managing director of Riverstone Holdings LLC; former group chief executive of BP plc

Maria Livanos Cattai (Switzerland), member of the board of directors, Petroplus Holdings AG; former secretary-general of the International Chamber of Commerce

Stuart Eizenstat (United States), partner, Covington & Burling LLP; former U.S. deputy secretary of the treasury, undersecretary of state, undersecretary of commerce, ambassador to the European Union

Luis Gallegos (Ecuador), ambassador of Ecuador to the United States; former vice chair, U.N. commission on human rights; member of the U.N. committee against torture

Neville Isdell (United States), chairman

of the board of directors, the Coca-Cola Co. (will join the panel in April 2009)

Hina Jilani (Pakistan), member of the council, Pakistan human rights commission; former U.N. secretary-general's special representative on human rights defenders

Kishore Mahbubani (Singapore), dean, Lee Kuan Yew School of Public Policy, National University of Singapore; former ambassador of Singapore to the United Nations

Narayana Murthy (India), chairman, Infosys Technologies Ltd.

Sonia Picado (Costa Rica), chair, Inter-American Institute of Human Rights; former judge and vice chair of the Inter-American Court of Human Rights

Cyril Ramaphosa (South Africa), executive chairman, Shanduka Group; former secretary-general of the African National Congress

Mary Robinson (Ireland), chair, Realizing Rights: The Ethical Globalization Initiative; former president of Ireland and United Nations high commissioner for human rights

Guy Ryder (United Kingdom), general secretary of the International Trade Union Confederation

Marjorie Yang (China), chairman of Esquel Group

John Ruggie is Kirkpatrick Professor of International Affairs at HKS and affiliated professor in International Legal Studies at Harvard Law School. From 1997 to 2001 he served as United Nations assistant secretary-general for strategic planning.

Economics



Harvard luminaries Jay Light (from left), Robert Kaplan, Elizabeth Warren, and Drew Faust participate in 'Understanding the Crisis in the Markets: A Panel of Experts.'

(Continued from previous page)

you touch" has to meet some basic safety standards, and compared the balloon mortgages introduced in recent years to a toaster that has a 1 in 5 chance of bursting into flames. "It would not be acceptable to put something like that on the market, even if you could do it for \$2 less."

Kaplan, noting how health care and education costs have risen, even as middle-class earnings have stagnated, defended homeowners who took out second mortgages to keep themselves afloat. They were "behaving rationally" when they tapped the rising equity of their homes, even though this meant increas-

ing leverage of assets.

Gregory Mankiw, Robert M. Beren Professor of Economics and a former chairman of the President's Council of Economic Advisers during the latest Bush administration, predicted, "This isn't going to be one of those cases where people will walk off in handcuffs."

He also said that both he and his Clinton administration counterparts had sought reforms for Fannie Mae and Freddie Mac but had trouble getting legislation passed. This sort of financial regulation isn't the kind of legislation that's of interest to congressmen trying to get re-elected, he suggested.

Merton, who won the Nobel Prize in Economics in 1997 for his work in devising a new method to price derivatives, used the example of high-speed trains running over tracks that weren't really built for them to illustrate how supportive infrastructure tends to lag behind innovation. It can't be predicted which innovations will succeed and which will fail. And it's not practical to create support for an innovation (whether in the form of government regulation or railroad track) until it's clear that it will succeed. So in the near term, yes, there are some accidents until the track can be upgraded.

Kris Snibbe/Harvard News Office

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Harvard
celebratesThe Universal
Declaration of
**Human
Rights**

Editor's note:
This is the third
in an occasional
series acknowl-
edging Har-
vard's commem-
oration of the
60th
anniversary of
the Universal
Declaration of
Human Rights.

History of human rights declaration is reviewed at CGIS

By **Corydon Ireland**
Harvard News Office

In September 1948, representatives of 18 nations at the newly minted United Nations were inspired by the tumult and horror of World War II to create a Universal Declaration of Human Rights (UDHR).

In just three months, under the chairmanship of Eleanor Roosevelt, the document was ready. Its short preamble and 30 concise articles are the first global proclamation of universal human rights. The declaration was ratified on Dec. 10, 1948.

That signature event nearly 60 years ago has prompted a yearlong commemoration at Harvard of the UDHR. University-wide lectures, panels, for-credit classes, and symposia

will explore the fate of the declaration, what it has done, what it has failed to do, and what it may yet inspire.

In a small Harvard seminar room last week (Sept. 24) at the Center for Government and International Studies on Cambridge Street, an audience of a few dozen listened to four experts discuss the history of the UDHR, how it came to be, and what its fate has been over six decades.

The event was sponsored by the Weatherhead Center for International Affairs, which this year on selected Wednesdays will sponsor eight such roundtables under the rubric of HIGHS — Harvard International and Global History Seminars.

(See **Rights**, next page)

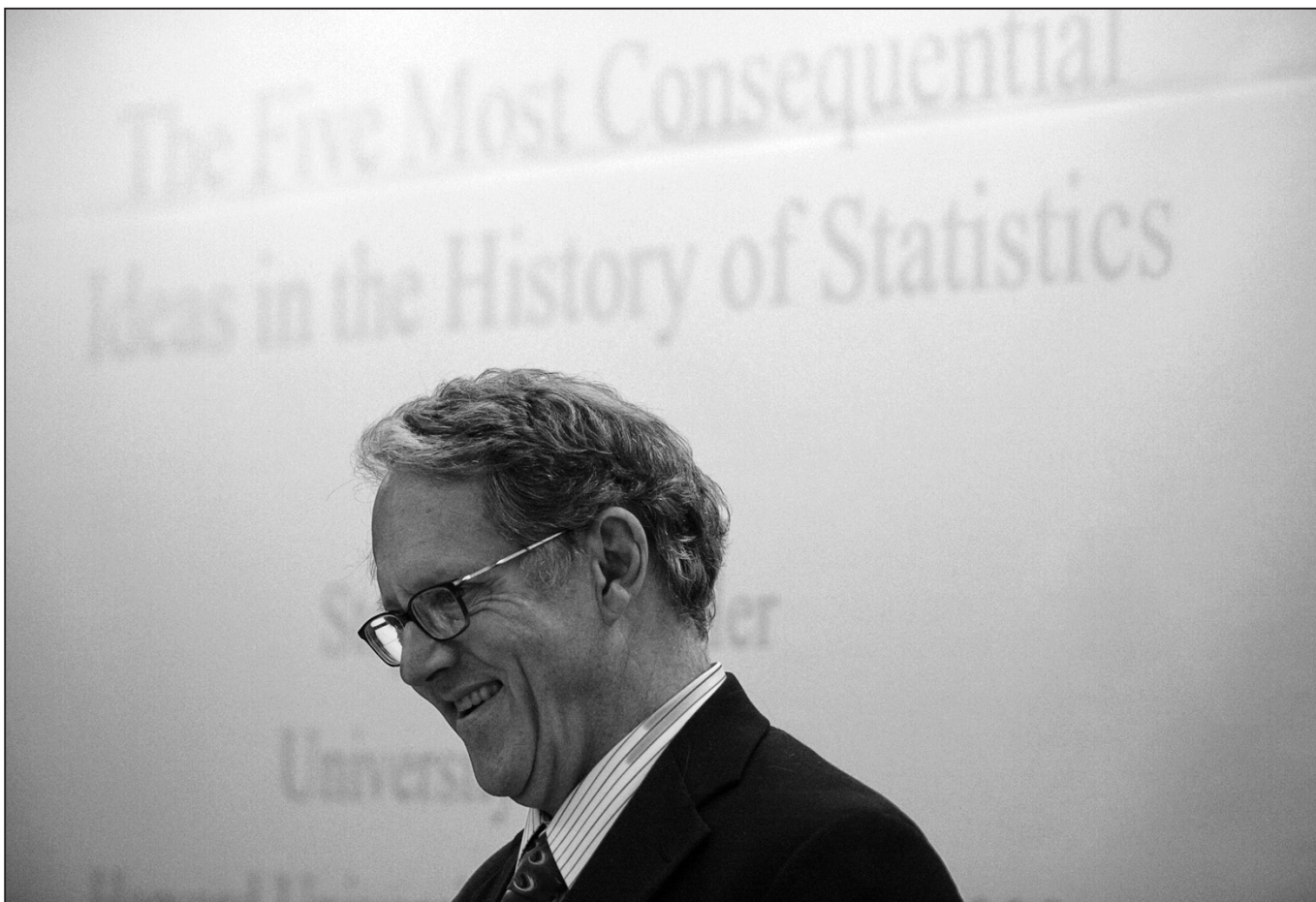


Ernest R. May (left) and Noah Feldman looked at the human rights document with a wide historical and narrow interpretive lens, respectively.

Rose Lincoln/Harvard News Office

Stephen Stigler speaks at Saturday conference, Monday colloquium

Key statistical ideas celebrate birthdays



Kris Snibbe/Harvard News Office

In his Monday colloquium presentation, Stephen M. Stigler of the University of Chicago presents what he thinks are the 'five most consequential ideas in the history of statistics.'

By **Corydon Ireland**
Harvard News Office

University of Chicago statistics professor Stephen M. Stigler, a frequent visitor to Harvard, has a favorite movie — “Magic Town,” a black-and-white flick from 1947. It stars James Stewart as a pollster who discovers a magical place: a heartland town whose citizens have a range of opinions that are a near-perfect composite of the whole United States.

In eight or nine street interviews, Stigler said, Stewart's character gets poll results that otherwise would require hundreds or thousands of interrogatory encounters.

Stigler is a historian of statistics, the science that uses complicated mathematics — a world of scatter plots and curve fitting — in order to extract useful information from data. It's employed to analyze information, infer probability, and estimate uncertainty.

Last Saturday (Sept. 27), Stigler delivered a

paper on the 100th anniversary of a groundbreaking paper by W.S. “Student” Gosset, “The Probable Error of a Mean.” His audience of 125 statistics professionals and students was gathered at the Radcliffe Gymnasium for “Quintessential Contributions,” a daylong series of talks. The event, sponsored by Harvard's Department of Statistics, celebrated the “birthdays” of key statistical ideas and their inventors.

All of the birthdays — except that of Gosset's idea — recognized Harvard statisticians who are still active in the profession.

Donald B. Rubin, the John L. Loeb Professor of Statistics, turned 65 this year, and his own breakthrough study, “Multiple Imputations in Sample Surveys,” turned 30. Worldwide, he's one of the top-10 most-cited writers in mathematics.

Professor of statistics Carl N. Morris turned 70 this year, and his paper “Parametric Empirical Bayes Inference” turned 25. He's an expert in analytical methods designed for public policy,

health care, and sports.

Herman Chernoff, professor *emeritus* of applied mathematics and statistics, turned 85 this year — and celebrating its 35th birthday was his paper “The Uses of Faces to Represent Points in K-Dimensional Space Graphically.” He's best known for “Chernoff faces,” a statistical tool for representing high-dimensional data, including the multitude of subtle variables used to map the human face.

This year, six of 12 faculty members in the department of statistics have birthdays divisible by five, said chair Xiao-Li Meng, a student of the humorously unusual. (To introduce what he called “the birthday boys” Saturday, he showed the results of a Google image search on each of the names — including a beautiful blond the search engine had mysteriously linked to the name “Don Rubin.”)

Later on Saturday, conference-goers gathered

(See **Statistics**, next page)

Statistics

(Continued from previous page)

at the Cambridge Queen's Head in Harvard's Memorial Hall to celebrate the modern fruits of what in the 1930s was Gosset's day job: head brewer for Guinness beer in London.

Stigler later calculated that with all the events to be celebrated in the history of statistics, "there's always a good reason to have a party."

On Monday (Sept. 29), he stayed in town to address about 50 students and professors in a crowded third-floor classroom in the Science Center. Stigler's talk, in professional terms, was inflammatory: "The Five Most Consequential Ideas in the History of Statistics." The session was one of several colloquia sponsored this fall by the Statistics Department.

To qualify on this shortlist, the ideas must have lasted a while, he said, and must have had demonstrable consequences for statistics.

The first idea was to combine observations in order to arrive at a simple mean. This "species of averaging," said Stigler, found expression in 1635, through the work of English curate and astronomer Henry Gellibrand.

"By combining observations, you actually increase the amount of information you have," said Stigler of an idea that came late to science. "It may seem like ancient history, but it's not."

Even today, he said, there's "determined resistance" to the idea of combining observations, because it pushes "individuality out of sight" in pursuit of a broader idea.

The "root-N rule" is the second consequential idea, said Stigler. That's the notion, first articulated in 1730, that the accuracy of your conclusions increases relative to the rate you accumulate observations. Specifically, to double that accuracy, you have to increase the number of observations fourfold.

Third on the list is the idea of "the hypothesis test," the statistical notion that mathematical tests can determine the probability of an outcome. This idea (though not the sophisticated math now associated with it) was in place by 1248, said Stigler, when the London Mint began periodically to test its product for composition and weight.

The fourth and fifth consequential ideas in statistics both had the same source, said Stigler — an 1869 book by Victorian polymath Francis Galton. "Hereditary Genius" was a mathematical examination of how talent is inheritable.

Galton discovered through a study of biographical compilations that a "level of eminence" within populations is steady over time and over various disciplines (law, medicine). Of the one in 4,000 people who made it into such a compilation, one-tenth had a close relative on the same list.

This led to what Stigler called the fourth consequential idea: the innovative notion that statistics can be evaluated in terms of internal measurements of variability — the percentiles of bell curves (in statistics terms, "normal distribution") that in 1869 Galton started to employ as scales for talent.

The fifth idea was based upon an empirical finding. In a series of studies between 1869 and 1889, Galton was the first to observe the phenomenon of regression toward the mean.

Essentially, the idea posits that in most realistic situations over time — Galton studied familial height variations, for example — the most extreme observed values tend to "regress" toward the center, or mean.

If he could extend his list of consequential ideas in statistics, Stigler said he would include random sampling, statistical design, the graphical display of data, chi-squared distribution, and modern computation and simulation.

A century from now, the big ideas in statistics will still help transform and expand knowledge, said Stigler. "Basic statistical concepts, whether you put them in your top five or not, [are] important to the way we think about things."

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Rights



Rose Lincoln/Harvard News Office

Noah Feldman (from right) discusses a key and, for some Arab countries problematic, phrase in Article 18 of the human rights declaration of 1948 having to do with the freedom to change one's religious belief, while Ernest May, David Armitage, Gary J. Bass, and Caroline Elkins listen.

(Continued from previous page)

Moderator David Armitage, Lloyd C. Blankfein Professor of History, called last week's four panelists "a dream team of scholars" well poised for the task of looking back at the UDHR.

Ernest R. May, Charles Warren Professor of American History, saw the declaration as an anomaly for its time — an expression of peaceful sentiment created just as the Cold War was heating up. It was in 1948 that the Berlin Blockade divided East and West, and only two years before Winston Churchill had delivered his Iron Curtain speech. "How do you get this document," May asked, "in these circumstances?"

That was one small question worth asking, said May, history adviser to the 9/11 Commission. Clamor for such a document reached a crescendo in 1945, he said, during lobbying at the San Francisco Conference, where the U.N. Charter was signed.

A larger question, said May, involves the "intellectual origins" of the UDHR. He turned his back on the idea that human rights is the same as the "divine justice" Sophocles dramatized 2,400 years ago in "Antigone." May preferred more modern antecedents for the UDHR, including the American Declaration of Independence along with "Marxism and its variants."

Noah Feldman, Bemis Professor of International Law at Harvard Law School, was grateful to May for providing the bigger picture, since he was going to look at a much smaller one — a single phrase within Article 18 of the UDHR. Feldman parsed "the strangeness" of the wording "freedom to change his religion or belief."

The phrase suggests a "right to be free inwardly," Feldman said, a concept that in 1948 some Islamic nations found unacceptable. In 1948, Saudi Arabia was one of eight countries that abstained from ratifying the declaration, which 48 nations signed.

Feldman traced the history of the Article 18 phrase to Charles Malik, a Lebanese Christian who in 1937 earned a Harvard Ph.D. in philosophy and who during draft talks in 1948 represented his native land. "The very essence of religion is to become, not to be," is a sentiment Feldman attributes to Malik.

That's an expression of private liberty, but it is also an example of how just a few words "can become tools in the arsenal of an international superpower," said Feldman. He recounted that President George W. Bush insisted that the original Article 18 language be included in the constitution of a post-Saddam Iraq. It was a sop, Feldman claimed, to evangelical Christians eager to make converts in the Middle East.

The fate and reapplication of just those few words, said Feldman, offers insight into "some of the ways international law evolves."

In the past six decades, the UDHR has inspired human

rights language in 19 constitutions adopted in post-Colonial Africa alone, and in 90 new national constitutions worldwide.

Still, the anti-Colonial movement was not a human rights movement — but at first most strongly a desire for "independence and self-determination," said panelist Caroline M. Elkins, Hugo K. Foster Associate Professor of African Studies in Harvard's Department of History.

On the other hand, the British were "hardly enthusiastic" about extending personal rights to Colonial natives, said Elkins, the author of "Imperial Reckoning: The Untold Story of Britain's Gulag in Kenya" (2005).

That lack of enthusiasm made the British "very strange bedfellows" with the Soviets regarding suspicion of the UDHR, she said, since both nations had their own reasons to be unhappy

For previously published stories in the series,

Health, rights journal open to all

<http://www.news.harvard.edu/gazette/2008/09.25/09-journal.html>

Undergrads spend summer studying international law, child soldiers

<http://www.news.harvard.edu/gazette/2008/09.18/09-rights.html>

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Harvard celebrates

The Universal Declaration of

Human Rights

about "the emergent concept" of a world citizenry.

But it still makes sense to be skeptical of the power of the UDHR, since it fails "the acid test," that is, implementation and enforcement, said panelist Princeton University political scientist Gary J. Bass, who recently taught at Harvard as a visiting fellow at the Carr Center for Human Rights Policy.

"My basic instinct is not to celebrate it," he said of the UDHR. "We confuse the progress of our own institutions with actual progress."

But the UDHR has the power to affect events — a "wooly power," said Bass, that sometimes emerges from words alone. He used the Soviet Union as an example of how words matter.

In 1948, the USSR refused to ratify the UDHR, but signed it in 1975 as part of the Helsinki Accords, an international agreement the Soviets saw as memorializing their power over the Eastern Bloc.

The Soviets dismissed the UDHR as a minor diplomatic compromise — but its language, Bass pointed out, went on to energize a generation of Eastern European dissidents and contribute to toppling the Communist regime.

What happened with the Soviet Union, said Bass, in defense of the UDHR, "makes a hard case for soft power."

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New approach to gene therapy may shrink brain tumors, prevent their spread

Massachusetts General Hospital (MGH) researchers are investigating a new approach to gene therapy for brain tumors — delivering a cancer-fighting gene to normal brain tissue around the tumor to keep it from spreading. An animal study described in the journal *Molecular Therapy*, the first study to test the feasibility of such an approach, found that inducing mouse brain cells to secrete human interferon-beta, a protein, suppressed and eliminated growth of human glioblastoma cells implanted nearby.

“We had hypothesized that genetically

engineering normal tissue surrounding a tumor could create a zone of resistance — a microenvironment that prevents the growth or spread of the tumor,” says Miguel Sena-Esteves of the MGH Neuroscience Center, the study’s senior author. “This proof of principle study shows that this could be a highly effective approach, although there are many additional questions that need to be investigated.”

Glioblastoma is the most common and deadly form of brain tumor. Human clinical trials of other gene therapies have not sig-

nificantly reduced tumor progression. One problem has been that patients’ immune systems target the viral vectors used to deliver cancer-eliminating genes. Another issue has been inefficient gene delivery, due in part to the inherent cellular diversity found within an individual patient’s tumor as well as among tumors from different patients. In addition, if tumor cells are successfully induced to express an anticancer protein, production of that protein will drop as the tumor dies, allowing any cells that did not receive the gene to resume growing. In

the current study the MGH team examined whether expression of a therapeutic gene in normal brain cells could form a stable and effective anti-tumor reservoir.

The researchers first pretreated immune-deficient mice by delivering a gene for human interferon-beta — a protein being tested against several types of cancer — into the animals’ brains using adeno-associated virus vectors known to effectively deliver genes to neurons in the brain without the immune reaction produced by other vec-

(See *Genes*, next page)

Technique offers close-ups of electrons and nuclei

Diamond-based magnetic imaging could prove a boon in materials science, biology, medicine

By Steve Bradt
FAS Communications

Providing a glimpse into the infinitesimal, physicists have found a novel way to spy on some of the universe’s tiniest building blocks.

Their “camera,” described this week (Oct. 1) in the journal *Nature*, consists of a special “flaw” in diamonds that can be manipulated into sensitively monitoring magnetic signals from individual electrons and atomic nuclei placed nearby.

The new work represents a dramatic sharpening of the basic approach used in nuclear magnetic resonance (NMR) and magnetic resonance imaging (MRI), which ascertain chemical structures and images inside human bodies by scanning the magnetic activity of billions of individual nuclei. The new diamond-based magnetic sensor could enable novel forms of imaging, marrying NMR’s noninvasive nature with atomic-scale spatial resolution, potentially benefiting fields ranging from materials science, spintronics, and quantum information to structural biology, neuroscience, and biomedicine.

Among other applications, the new research could make it possible to peer inside proteins, map the structure of impossibly intricate molecules, closely observe the dynamics of microscopic biochemical processes, monitor the activity of neural circuits, or use single electrons and nuclei for storing and processing information. Some of these applications were recently described by the authors in a separate contribution published online Sept. 14 in the journal *Nature Physics*.

“Although some existing magnetic field sensors have higher sensitivity, they probe magnetic fields over large volumes of space,” says Mikhail D. Lukin, professor of physics in Harvard University’s Faculty of Arts and Sciences (FAS). “The combination of excellent sensitivity and nanoscale spatial resolution that we demonstrate is completely unique. Potentially, it may allow one to image single nuclei in individual molecules.”

The collaborative research, led by Lukin and Harvard physicists Amir Yacoby and Ronald L. Walsworth, involved scientists from Harvard, the



Smithsonian Institution, the Massachusetts Institute of Technology (MIT), and the University of Pittsburgh.

The work builds on a Science paper published last year by Lukin and colleagues. That paper reported that single atoms of carbon-13 — which make up some 1.1 percent of natural diamond — can be manipulated via a nearby single electron that can, in turn, be controlled by focusing laser light on a diamond lattice flaw where nitrogen replaces an atom of carbon. Such excitation using optical and microwave radiation causes the diamond flaw’s electron spin to act as a very sensitive magnetic probe with extraordinary spatial resolution.

An electron’s spin, or intrinsic angular momentum, acts like a tiny magnet, providing one of the few outwardly detectable signs of an atom’s location. An atomic nucleus can also have a spin, but because a nucleus is much heavier than an electron, its magnetic field is a thousand times smaller, making it much harder to detect.

“Our magnetic sensor is based on a single electronic spin associated with an impurity or flaw in a small diamond crystal. We managed to turn our understanding of quantum information physics into an extraordinary measuring apparatus,” says Yacoby, professor of physics at FAS. “A nanocrystal of diamond containing this specific type of impurity could be placed on the tip of a needle as a minuscule probe of extremely weak magnetic fields, such as those generated by the spin of an electron or even an atomic nucleus.”

The 2007 work effectively brought the futuristic technology of quantum information systems into the realm of solid-state materials under ordinary conditions; the current research builds on

that advance to develop new nanometer-scale magnetic sensors that could have important implications in imaging of a variety of materials, biological compounds, and tissues.

“Precision sensing of magnetic fields is at the forefront of a wide range of scientific fields — from nanoscience to bioimaging,” says Walsworth, senior lecturer on physics at Harvard and senior physicist at the Smithsonian. “Potential nanoscale applications of the diamond magnetic sensor include detection of individual electron and nuclear spins in complex biological molecules, and serving as a universal ‘quantum magnetic head’ for addressing and readout of quantum bits of information encoded in an electron or nuclear spin memory.”

Accompanying this work in the current issue of *Nature* is a report from scientists at the University of Stuttgart who have obtained the first scanning images using a diamond magnetic sensor.

“This is a case where the sum of two contributions is really greater than their parts,” says Lukin. “Together, they really jump-start a new research field.”

Lukin, Yacoby, and Walsworth’s co-authors on the *Nature* paper are Jeronimo Maze, Sungkun Hong, Liang Jiang, Emre Togan, and Alexander Zibrov, all at Harvard; Paul Stanwix of the Smithsonian; Jonathan Hodges at Harvard and MIT; Jacob Taylor at MIT; and M.V. Gurudev Dutt at Pittsburgh. The work was supported by the National Science Foundation, the Defense Advanced Research Projects Agency, the Packard Foundation, and Harvard’s Center for Nanoscale Systems.

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New research by Mikhail D. Lukin (above) and colleagues will (among other applications) help make it possible to peer inside proteins, map the structure of impossibly intricate molecules, closely observe the dynamics of microscopic biochemical processes, and monitor the activity of neural circuits.

Genes

(Continued from previous page)

tors. Two weeks later, human glioblastoma cells were injected into the same or adjacent areas of the animal's brains. After only four days, mice expressing interferon-beta had significantly smaller tumors than did a control group pretreated with gene-free vectors. Two weeks after the glioblastoma cells were introduced, the tumors had completely disappeared from the brains of the gene-therapy-treated mice.

Several additional experiments verified that the anti-tumor effect was produced by expression of interferon-beta in normal tissue. The same tumor growth suppression was seen when the genes were delivered to one side of the brain and tumor cells were injected into the other. Using a specialized vector that allows genes to be expressed only in neuronal cells and not the glial cells from which glioblastomas originate also produced similar results. While other gene therapy studies that have induced tumor regression in mouse models required several vector injections, these experiments were able to suppress growth and eliminate the implanted tumor with a single injection of the interferon-beta-encoding vector, underscoring the approach's effectiveness.

"These results are particularly important as we build on our understanding of the microenvironments that allow tumors to grow and spread," explains Sena-Esteves, an assistant professor of neurology at Harvard Medical School. "The therapeutic principle of genetically engineering normal brain tissue could be used to manipulate proteins required for that microenvironment, preventing tumors from migrating within the patient's brain and escaping other therapies." The same zone-of-resistance approach could also be applied to the treatment of other solid tumors, he notes.

Given the known side effects of interferon-beta treatment, it will be important to identify any toxicity caused by long-term secretion of the protein in the brain and develop preventive strategies, such as turning off the introduced genes. Next, the MGH team is planning to test this strategy on glioblastomas that occur naturally in dogs, which could not only generate additional data supporting human trials but also develop veterinary treatments for canine patients.

Casey Maguire, research fellow in neurology, MGH Neuroscience Center, is the lead author of the Molecular Therapy report. Other co-authors are Dimphna Meijer; Stanley LeRoy; Laryssa Tierney; Fabricio Costa; Xandra Breakefield, professor of neurology, MGH Neuroscience Center; Marika Broekman, University Medical Center, Utrecht, the Netherlands; and Anat Stemmer-Rachamimov, MGH Pathology. The study was supported by grants from the Alliance for Cancer Gene Therapy and the National Institutes of Health.

Massachusetts General Hospital established in 1811, is the original and largest teaching hospital of Harvard Medical School. MGH conducts the largest hospital-based research program in the United States, with an annual research budget of more than \$500 million and major research centers in AIDS, cardiovascular research, cancer, computational and integrative biology, cutaneous biology, human genetics, medical imaging, neurodegenerative disorders, regenerative medicine, systems biology, transplantation biology, and photomedicine.

Harvard-Yenching Institute names doctoral fellows

Initiated in the 1960s, the Harvard-Yenching Institute's Doctoral Scholars Program (DSP) now consists of two branches, the Harvard-DSP and Non-Harvard DSP. Each year the institute invites Harvard departments in the humanities and social sciences to nominate candidates for the Harvard doctoral scholarships. To be eligible for this program, candidates must be from Asia.

Considered by a joint selection committee of the institute and Harvard faculty members, selected applicants receive a three-and-a-half-year scholarship. Harvard-DSP grantees have been nominated by and trained in various departments, such as East Asian Languages and Civilizations, Near Eastern Languages and Civilizations, African and African American Studies, History, History of Science, History of Art and Architecture, Anthropology, Sociology, and the Committee on the Study of Religion.

Eligible candidates for the Non-Harvard DSP are junior faculty members and researchers of Asian institutions affiliated with the Harvard-Yenching Institute. If selected, they will also receive a three-and-a-half-year scholarship to study abroad for a doctoral degree in the humanities and social sciences.

This year's new doctoral grantees

Bian He (Department of History of Sci-

ence) grew up in Beijing and went to Peking University for her bachelor of science. While studying toward a master of science degree in human nutrition at the University of Illinois, she took classes in history of science in her spare time, and this area turned out to be much more fascinating and intellectually engaging for her. Finding herself not really belonging to laboratories, Bian has decided to change her course of study, and is now concentrating on historical research on modern science and medicine in East Asia.

Chen Jingling (Department of East Asian Languages and Civilizations) was born in Shanghai, China. Having earned both her bachelor and master of arts degrees in Chinese and comparative literature from Fudan University, she comes to Harvard to study for a Ph.D. degree in modern Chinese literature. Her passions include the study of the literary relations between ancient Greece and modern China. She has published several articles in academic journals in China and was a visiting fellow at National Taiwan University in 2006 with the support of the China Cultural Development Foundation.

Lam Weng-Cheong (Department of Anthropology) is originally from Macau and earned both his B.A. and M.A. degrees from Peking University. Lam's research interest area is Chinese archaeology with a special

focus on the Chinese Bronze Age, including bronze casting technology, craft production, ancient funeral ceremonies, and feminist archaeology. He has participated in several excavations in China, including excavations in Shaanxi, Shanxi, and Henan provinces.

Ren Wei (Department of History of Art and Architecture) came to Harvard directly from Beijing after spending three weeks watching the Olympics. She will be studying Chinese modern art of the late 19th and early 20th century. Having received her B.A. degree from Williams College in 2007, Ren embarked on a quest to explore art and identity in Italy, the United Kingdom, Australia, and Germany as a Thomas J. Watson fellow. Speaking fluent French, Italian, and Spanish, Ren keeps her love of languages growing, and she will be studying German and Japanese at Harvard.

Yu Wen (Department of History) is from Xi'an, an old capital city for 13 dynasties in China and also well known as the jumping-off point of the famous ancient Silk Road. Having earned her M.A. degree in modern Chinese intellectual and cultural history from Fudan University, Yu comes to Harvard to study modern Chinese history from a grassroots perspective, trying to understand through what nexus the idea of "making a modern nation" has entered into the perception and experience of Chinese people's daily life.

Rose Lincoln/Harvard News Office



Clarity amidst the mist

A student concentrates on her work at the edge of the fountain in front of the Science Center.

Milton Fund offers unique opportunities for faculty

Voting faculty from all of Harvard's Schools are eligible to apply for grants from the Milton Fund, which supports original research by Harvard faculty.

The application deadline is Oct. 15. For more information, visit www.hms.harvard.edu/spa/funding/inter-nal/milton.shtml.

Faculty and junior fellows from the University's various Schools have been the beneficiaries of small grants generated from the bequest of William F. Milton '24 designating funds be used "to defray the expenses of any special investigation of a medical, geographical, historical or scientific nature ... for promoting the physical and material

welfare and prosperity of the human race, or to assist in the discovery and perfecting of any special means of alleviating or curing human disease or to investigate and determine the value of the importance of any discovery or invention, or for any other special

or temporary project ... not included in the routine work of the college" The Mitten grants often fill gaps in funding, the Milton Fund committee says. For example, clinical research in infectious diseases is not readily funded by the National Institutes of Health (NIH) nor the private sector.

Milton grants have enabled hundreds of Harvard faculty, particularly assistant professors, to explore new ideas and launch innovative projects, often shaping lifelong investigative interests and scientific collaborations.

The Milton Fund "has had a very dramatic effect on my career and on my team and our department as well," explained Daniel Pallin, an assistant professor of medicine and pediatrics, who last year received support from the Milton Fund. Pallin is researching the best treatment for cellulitis, a common skin infection. CA-MRSA (community-associated methicillin-resistant *Staphylococcus aureus*) is a form of staph

bacteria that was first described less than 15 years ago and is now a major cause of skin infections nationwide. Millions of people are treated each year with antibiotics for this "flesh-eating bacteria." Pallin explained that although he had been a co-investigator on clinical trials, "this was the first human experiment that I had designed and that I am executing on my own as the principal investigator."

Between 2000 and 2008, 336 Milton grants were awarded to Harvard faculty. Many members of the faculty review committee received Milton grants when they were young faculty, and impressed by the consequences for their own career, carry on the Milton tradition by funding the next generations of faculty in their independent work. The Milton Fund has grown over the decades with more than \$1 million awarded to faculty in recent years. The current grant limit is \$35,000 and applications are due on Oct. 15.



Photos Kris Snibbe/Harvard News Office

Cast members Venny Carranza (left) and Nikki Snelson from 'A Chorus Line,' currently playing at the Boston Opera House, visit with members of the class 'Dance in Musical Theatre.'

Professionals step lively in dance class

'Chorus Line' hoofers rehearse a song from famous musical

By Emily T. Simon
FAS Communications

Light footfalls and nervous laughter broke the pre-class silence in the Harvard Dance Studio last Tuesday (Sept. 23). Five students faced the mirror, carefully working through the dance steps to "One," the finale from the Broadway hit "A Chorus Line." Class wasn't set to start for another 20 minutes, but the group was anxious to get the combination right. After all, they would be dancing for a rather savvy audience — two cast members from the show, currently playing at the Boston Opera House. And this was just the first official week of class.

"Dramatic Arts 124: Dance in Musical Theatre" is a new course offered at Harvard College this fall. Students will explore the dance styles of Agnes de Mille, Jerome Robbins, Michael Bennett, and Bob Fosse — four of America's most renowned choreographers — to discover how their movement and energy shaped the history of Broadway from the 1920s through the late 1980s.

The course is led by Leslie Woodies, who brings a wealth of dance experience to the Harvard studio. She is a former soloist with Boston Ballet, has choreographed for Disney and Paramount, and played the lead role of "Cassie" in a production of "A Chorus Line" (ACL) directed by Michael Bennett.

Lectures and practical dance experience form the basis for the curriculum, as well as video excerpts compiled from production numbers shown on the Tony Awards and other public venues over the past 40 years. For many students, though, it was three little words in the course guide that sent them scrambling to sign up: "visiting guest artists."

"I am so excited about the opportunity to learn from Broadway professionals," said Becky Dillaway '11.

In addition to the current ACL cast members, students will have the chance to work with Tony Award-winning dancers



Between dances, Amanda Hameline '12 (far left) and Rebecca Dillaway '11 (second from right) chat with friends. Paige Martin '11 (below left) warms up before working with the 'Chorus Line' cast members.

Bebe Neuwirth and Donna McKechnie.

Because the course has no prerequisites, students have varying levels of experience. One thing they all share, however, is a deep passion for musical theater.

"The class is open to anyone," said Woodies, "and we love the energy of each individual performer. Daring to reveal

your own perspective is a key part of the process."

The first guest artists to join Dramatic Arts 124 this semester were Nikki Snelson and Venny Carranza, two performers who star in the Broadway Across America production of ACL. Snelson plays Cassie, while Carranza plays Roy. Carranza also covers (i.e., is an understudy for) four major characters in the show.

The musical follows the story of 17 dancers as they undergo a challenging audition for an upcoming Broadway show. First produced in 1975, the musical received nine Tony Awards and a Pulitzer Prize for drama.

"This show is not just about Broadway," said Woodies. "It speaks to every universal concept of people putting themselves on the line ... getting your first job out of college, standing up and saying I do — or I don't."

Before hitting the dance floor, the per-

(See *Dance*, page 18)

Study abroad students have lots to say, in lots of languages

By Emily T. Simon
FAS Communications

Every fall, Harvard Yard comes alive with conversation as students greet old friends and recount how they spent the summer break. This year, with nearly 300 students participating in study abroad programs run by the Harvard Summer School, these encounters likely featured more foreign phrases and more exotic locales than in days past.

Under the Summer School's auspices, undergraduates traveled to a wide range of destinations in the Middle East, Asia, Central and South America, Europe, and Africa. The 25 programs of study were as diverse as the countries themselves, allowing undergraduates to explore everything from anthropology to filmmaking, biology to language, technology to culture to history.

"Our hope is that study away from Harvard Yard will not only bring students a new appreciation of the diversity and wonder to be found in the wider world, but also allow students to learn about themselves," said Donald H. Pfister, dean of the Harvard Summer School, Asa Gray Professor of Systematic Botany, and curator of the Farlow Library and Herbarium. "These new views better prepare students to be global citizens."

Here is a closer look at three of the summer programs — in St. Petersburg, Scandinavia, and Tokyo.

Russian language and cultural study in St. Petersburg

George Thampy '10 can recall precisely when he became interested in studying Russian.

"I read Dostoevsky's 'The Brothers Karamazov' for the first time when I was 12 years old," he said. "The passion and vitality of Dostoevsky's prose struck me with such power that ever since then, I have wanted to read the book in its original language."

This summer, Thampy finally fulfilled that goal. He also had the opportunity to do something he never imagined — walk in the footsteps of the famous Russian author.

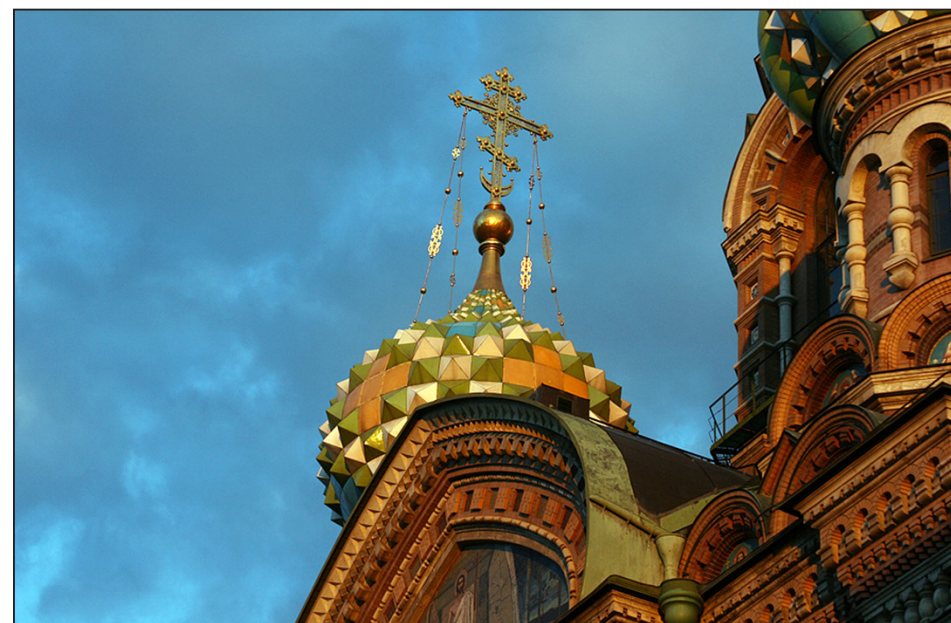
Along with other students enrolled in the Harvard Summer Program in St. Petersburg, Thampy toured the house where Dostoevsky was born, the apartment in which he lived, and the squares he frequented more than a century ago. The outing was just one of several.

"It was remarkable that we were able to literally walk in the footsteps of the greatest writers of this country," said Thampy.

The seven-week program of study was led by Julie Buckler, professor of Slavic languages and literatures, and Vladimir Gitin, senior language preceptor in the same department. Students took intensive Russian language courses and studied the nation's imperial culture from literary, architectural, musical, and theatrical perspectives. The classroom work, at the Nevsky Institute of Language and Culture, was interlaced with regular excursions throughout the city.

"I incorporated the city as a teaching tool by linking our work with literary texts to the cultural history of the specific neighborhoods and by giving assignments that required students to do on-the-ground observation in the city," said Buckler. "My sense

(See *Summer*, next page)



Ornate spires at the Church of the Savior on Spilled Blood, St. Petersburg, commissioned in honor of Alexander II.



Students in the Scandinavia program sailed replica Viking ships, like these at anchor in Roskilde, Denmark.



Ele Roesdahl (above, far right), Denmark's preeminent archaeologist, guides a tour of Fyrkat, the site of a 10th-century ring fortress. In the background is a reconstructed longhouse. Kate Xie '10 (right) is hard at work in the lab at Tokyo's RIKEN Brain Science Institute.



Summer

(Continued from previous page)

was that the more the program moved its activities out of the physical classroom, the more satisfying students found it."

All participants were housed with Russian families, giving students the opportunity to practice their language skills. Courtney Skinner '10, who arrived in St. Petersburg as a self-described "beginner," found that her learning curve was steepest at the dinner table.

"Our host mom was very friendly and curious about our lives, so we had the opportunity to practice Russian a lot at dinner," she said.

Mealtime also gave Skinner an authentic — if sometimes unusual — taste of Russian culture.

"Our host mom prepared lots of different Russian foods," she said. "Every once in a while she would serve us a dish and we wouldn't be quite sure how to eat it."

Cold vegetable soup — with carbonated soda for the broth — was one menu item that gave Skinner and her roommate pause.

"We tried pretty much everything, including the soup," Skinner said, "because our host mom worked so hard to make the experience positive."

Viking studies in Denmark, Germany, and Sweden

History has not been kind to the Vikings. The medieval explorers tend to get a pretty bad rap in the popular imagination as murderous, pillaging, funny-hat-wearing heathens. To a certain extent, says Stephen Mitchell, professor of Scandinavian and folklore, those appellations are deserved.

"Many Vikings were pirates — awful people by any measure," Mitchell said. "But there's another side to the story, which is that there were plenty of people who had nothing to do with those activities. Part of the fun [of studying the era] is just trying to make sense of what they were up to."

The "other side of the story" was a feature of the Harvard Summer Program in Scandinavia, led by Mitchell. Traveling through Denmark, Germany, and Sweden, students explored the archaeological and literary heritage of the Vikings to discover a culture far more complex than previously imagined.

The program began in Århus, Denmark's second-largest city. There, students were introduced to the material legacy of the Vikings through archaeological studies. They visited burial mounds and examined foreign artifacts that the Vikings had brought back from their trade routes in the east. Students also studied the Vikings' narrative legacy in a range of sources, from *skaldic* (court) poetry to sagas.

"Prior to the trip, I had a conception of Viking culture which overemphasized their association with warfare and undervalued their importance as traders and explorers," said Robert Cross '11. "Examining the hoards of Arab silver and many other foreign artifacts the Vikings brought back to Scandinavia, while learning much more about Viking involvement in Iceland, Greenland, and North America, helped me gain a greater understanding of the multidimensional nature of the Viking identity."

From Århus students journeyed to Roskilde, a medieval city on the island of Zealand. The group saw five Viking ships that had been excavated from a nearby fjord, and tried their hand at rowing on a replica model.

"This outing helped give us a visceral understanding of the importance of the sea in Viking thought and culture," said Cross.

The program culminated in the Swedish city of Visby, a UNESCO World Heritage Site on the island of Gotland.



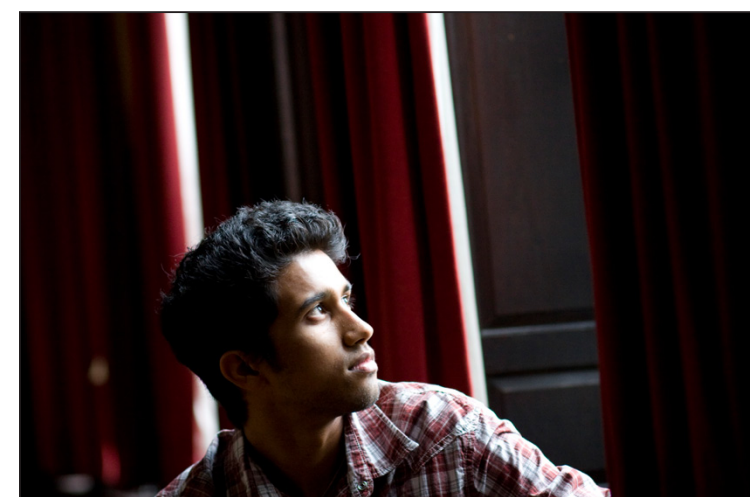
George Thampy '10 and Courtney Skinner '10 traveled to St. Petersburg, Russia, to learn about the city's imperial history and to improve their language skills.

Rose Lincoln/Harvard News Office



Maisie Clark '09 studied in Scandinavia this summer.

Rose Lincoln/Harvard News Office



Kunal Raygor '10 enjoyed working with Japanese faculty and postdoctoral students at RIKEN, where he researched Alzheimer's disease.

Stephanie Mitchell/Harvard News Office

"The city is full of preserved medieval structures and still has the original wall surrounding it," said Maisie Clark '09. "It's the most beautiful place I've ever seen."

While Clark enjoyed her studies of Viking history, she also found plenty to learn from contemporary Scandinavian culture.

"There is a sense of open-mindedness and egalitarianism that is quite impressive," Clark said. "People treat each other very well. They are focused on family, happiness, and wellbeing — not necessarily on how much money you have. It's a wonderful model for liv-

ing."

Neurobiological study and research at Tokyo's Brain Science Institute

The RIKEN Brain Science Institute (BSI) near Tokyo is a renowned research center that boasts 55 laboratories and a host of international scholars, all at the cutting edge of neuroscience.

But when Takao Hensch, professor of molecular and cellular biology, first heard of RIKEN BSI, it was nothing more than a big idea.

"Twelve years ago I was invited to Japan as a new laboratory head to help build BSI," Hensch said. "We started with just eight or nine labs. I have watched it grow up, literally from nothing."

A decade of labor — and patience — has proved rewarding. Now, Hensch is watching as RIKEN welcomes a new generation of budding scientists from Harvard College. For the past two summers, a select group of undergraduates has been invited to complete intensive neuroscience research at the institute.

"It is a dream for me to bring College students to RIKEN," Hensch said. "It's rare for them to have an opportunity to study abroad in the sciences, because there are often a lot of unknowns about the facilities and the quality of experience. But I know that RIKEN can provide first-class science internships."

Students on the 10-week program this summer engaged in independent research projects under the supervision of tenured professors and postdoctoral students. In keeping with the research goals of the institute, they focused on four key areas: understanding, protecting, creating, and nurturing the brain.

Kunal Raygor '10 studied Alzheimer's disease with Japanese professor Takaomi C. Saïdo.

"We focused on enzymes that can break down the disease's toxic agent, known as beta-amyloid, in the brain," he said. Raygor's research at RIKEN complemented work he had done previously for Rudolph Tanzi, Joseph P. and Rose F. Kennedy Professor of Child Neurology and Mental Retardation at Harvard Medical School.

"Dr. Tanzi was very supportive of my plans to go to Japan," said Raygor. "He actually knew Dr. Saïdo professionally — they have attended the same conferences — so it was nice to have an established connection. I will certainly be able to continue the work I started in Japan now that I am back at Harvard."

In addition to their research duties, students attended an intensive lecture series at the midpoint of the summer. They heard 20 lectures by neuroscience scholars from across the world, each with a different perspective on brain development, disorders, or repair.

"It was amazing to be at the cutting edge, to hear from experts whose work will propel the entire field forward," Raygor said.

Scientific discoveries were not the only highlights of the summer for the Harvard scientists. Living and working on the RIKEN campus, many of the undergraduates made strong connections with Japanese postdoctoral students.

"I got to know the researchers I worked with very well," Raygor said, "not just through talking about science, but because they invited me to their homes for dinners and introduced me to their friends. I felt like family by the end."

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A bridge (above) spans the Gribov Canal, a St. Petersburg site featured in Dostoevsky's novel 'Crime and Punishment.' Alexandra Zimber '10 (left) and Joshua Foote '10 on tour in St. Petersburg.



Dance

Office for the Arts at Harvard presents its Learning From Performers visiting artist program. Upcoming artists include:

Sara Jobin '91: Has conducted productions for the San Francisco, Wolf Trap, Tacoma, and Arizona opera companies.
Today (Oct. 2), 5 p.m., opera seminar sponsored by Harvard Humanities Center, with Professor Anne Shreffler, chair of the Department of Music. Barker Center, 12 Quincy St., Room 133. Admission free and open to the public.

Sir André Previn: A Kennedy Center Lifetime Achievement Award recipient in 1998, Previn has held the chief artistic posts with such orchestras as the Houston Symphony, London Symphony Orchestra, Los Angeles Philharmonic, Pittsburgh Symphony, and Royal Philharmonic.

Monday (Oct. 6), 3 p.m., master class with student chamber ensembles, co-sponsored by Learning From Performers, Harvard Music Society of Kirkland House and Harvard Piano Society. Kirkland House Junior Common Room, 95 Dunster St.

Bebe Neuwirth: A celebrated star of stage, film, and television — and a triple-threat actor, dancer and singer — Neuwirth's many honors include Tony Awards for 'Sweet Charity' (1986) and 'Chicago' (1997), as well as two Emmy Awards for her work on the TV series 'Cheers' (1990 and 1991). Co-sponsored by Learning From Performers and the OfA Dance Program.

Oct. 29, 8 p.m., master class with student dancers. New College Theatre, 10-12 Holyoke St. Admission is free, but tickets are required. Limit (2) tickets per person.

For more information, visit
<http://www.fas.harvard.edu/~ofa/>.



Photos Kris Snibbe/Harvard News Office

Led by Snelson and Carranza (front and center in blue dress and sleeveless T-shirt) and using a mirror to check out their moves, the class looks pretty much in synch as they work on the dance.

(Continued from page 15)

formers sat down with students for an informal discussion about life in show business. As they answered questions about a range of topics — auditions, friendships with cast members, how their careers began — both Snelson and Carranza underscored the importance of staying true to your dreams.



Leslie Woodies, who teaches the class 'Dance in Musical Theatre' in the Harvard Dance Center, has some words of instruction for her class, and words of thanks for her guests.

"Sure, there are moments when you have doubts," said Snelson, when asked if she ever considered giving up the performer's lifestyle for a more traditional career. "But when you step back and take a look at it, I get to sing, dance, and play dress-up for a living. And I love it. So why not keep persevering until your dreams come true?"

Carranza agreed that despite its challenges, life on Broadway was very rewarding.

"After one performance," he recalled, "my mom came up to me and said, 'I'm so

happy that you are happy with your life.' To me, there's no greater thing you can hear from a loved one."

Many students were curious to hear how the performers' audition experiences compared with the process depicted in "A Chorus Line."

"Auditions are much more enhanced than they were in the 1970s," said Carranza. "Now, you are actually a name, not just a number. And dancers are no longer in their own little world. Directors want a 'triple threat' — someone who doesn't just dance, but can also sing and act." Carranza noted that "Chorus Line" was one of the first shows to "break the barrier" of a single-talent approach to hiring.

Woodies also mentioned that as the economics of show business changed and productions became more expensive, directors needed performers who exhibited talent in all three areas. Furthermore, she said, because rehearsal time for productions grew shorter, the talent "had to get brighter."

With the bar set so high, how do Snelson and Carranza face an audition?

"It can be very intimidating, but the light in your soul that loves to perform will shine through," Snelson said. "The people behind the table will see that."

There was no director's table in the studio last Tuesday, but the energy was still palpable as students took to the dance floor. Following a brief warm-up, they lined up to perform "One" with Carranza and Snelson. Teaching Fellow Matt Corriel '05 accompanied the group on piano, while Carranza called out the steps.

"Change! Toe-ball-heel! Lunge!" he

called. "Hats at a jaunty angle! Think of every movement as a picture, precise and sharp. Keep your elbow in line or you'll smack your neighbor."

The students had learned the steps with Woodies in a prior class, during shopping period. Practice time was limited to less than two hours, though, because Woodies also had to discuss the syllabus and cover administrative details.

"We really had to plunge right in to prepare for [the performers'] arrival," said Woodies.

Despite the quick preparation, the students knew their moves well. Rather than teach the steps, Carranza and Snelson were able to focus on small details that would improve the overall performance: the tip of a hat, the flick of a wrist, a smoother way to turn.

"I've gotta call up my agent," Carranza joked, "because it looks like I may be out of a job soon."

Some of Woodies' students have Broadway aspirations, but many plan to pursue careers in other fields. Woodies is confident, though, that the course will have a positive impact on all who are enrolled.

"The freedom to communicate with your body, voice, and spirit allows you to do anything," she said.

Snelson shared a similar sentiment.

"It's been said for years now that any sort of music or arts education helps with other subjects, such as math," she said. "It certainly helps your hand-eye coordination, which will be useful for any pre-med students in the room!"

If last Tuesday was any indication, the coming semester holds plenty of excitement for the students in Woodies' class. They will face papers and exams, of course, and challenging assignments as they unravel the complex history of musical theater. Last week, though, they could focus on one singular sensation: the opportunity to dance for Broadway stars.

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Picture Perfect: Adatto talks about life in the age of the photo op

By Amy Lavoie
FAS Communications

We live in a world flooded with images. There has been an explosion of cell phone cameras, social networking sites, digital photography, blogs, and surveillance cameras, and we have a 24-hour news cycle that feeds on pictures.

In her new book, "Picture Perfect: Life in the Age of the Photo Op," Kiku Adatto tries to make sense of this world. Adatto, who is a scholar in residence at the Humanities Center in the Faculty of Arts and Sciences and a lecturer on social studies, chronicles the rise of America's photo-op culture, which has

been expanding since World War II.

"When the photograph was invented, it was celebrated as a powerful form of documenting, witnessing, and truth-telling," says Adatto. "Today our sensibility has changed. We pride ourselves on our knowledge that the camera can lie, that pictures can be fabricated, packaged, and manipulated.

Adatto argues that the "photo-op consciousness" is not always liberating. While "the documentary power of the camera has vastly increased today," she notes, "so has the ability of the camera not only to falsify information but also to falsify ourselves. We have more opportunities to live at the surface, continually posing, to see and measure ourselves by the

images we make and the images others make of us. When everyone with a cell phone is a potential member of the paparazzi, when any picture posted spontaneously among friends can become a part of the permanent record, the line between public and private lives begins to dissolve."

Adatto's book provides an interesting frame on the 2008 presidential campaign. She offers evidence that politicians from Ronald Reagan to George W. Bush to John McCain draw on the movies to cast themselves as mavericks, cowboys, citizen heroes, and war heroes. Referring to Osama bin Laden shortly after the 9/11 attacks, President George W.

(See **Adatto**, next page)



Adatto

Nick Welles/Harvard News Office

HSPH expands HIV/AIDS work in Tanzania

For 15 years HSPH's Fawzi has headed collaboration



Photo by David Havelick

HSPH Professor Wafaie Fawzi in Tanzania on a 2008 trip.



Photo by Dan Beaudoin

'Our vision,' said Fawzi, 'is to further strengthen training and research in Dar es Salaam [above] and increasingly use the site as a base for research and education at other sites in the African region and beyond.'

By Christina Roache
HSPH Communications

Nearly 150 years ago, the Tanzanian city of Dar es Salaam was known by another name — Mzizima, meaning "healthy town" in the local language. But over the decades, the city and the country of Tanzania have experienced mounting challenges to that health.

Tanzania's per capita income is estimated to be \$350 a year. Each year, there are 100,000 to 125,000 malaria-related deaths. HIV infection has reached epidemic proportions, with an estimated 1.3 million adults and children living with HIV/AIDS. Tuberculosis casts an ever-growing shadow over the country and hastens the illness and deaths of people with HIV. Rates of chronic diseases are increasing. And there is an estimated shortage of 10,000 health care workers.

Wafaie Fawzi, Harvard School of Public Health (HSPH) professor of nutrition and epidemiology, knows the situation well. For the past 15 years, he has headed a collaboration in Tanzania which includes researchers at Muhimbili University of Health and Allied Sciences (MUHAS) and the Dar es Salaam City Council, that has the overarching

goal of improving the public health of people living in one of the world's poorest countries.

One-year commitment turns into 15 years — and counting

In 1988, Fawzi came to HSPH after earning an M.D. at the University of Khartoum, Sudan. He intended to stay just one year at the School to earn a master's in public health.

"Then during the M.P.H. studies I thought that one year wasn't enough, so I did a doctorate in nutrition and epidemiology," he recalled.

His mentors became HSPH Professors Manuel Herrera and Walter Willett. Fawzi conducted his thesis research in the Sudan investigating how vitamin A affects childhood mortality and morbidity. He graduated, and still interested in multivitamin research, he successfully proposed a postdoctoral project in Tanzania that explored whether vitamin A supplementation helped lessen the severity of pneumonia in hospitalized children.

"I chose Tanzania because on collegiate and professional levels, there are a lot of good people and many opportunities for collaboration on various public health issues," said Fawzi. He went to

Tanzania in 1993 and has divided his time between there and HSPH ever since.

Send an e-mail, wait three days

In the early years, Fawzi recalled, conducting research in Tanzania was just one of the challenges. He said "E-mail was done at one computer at the library at Muhimbili University. It worked via telephone and satellite. The satellite would come over twice a day, and it would pick up messages and drop messages, but because the telephone was not working most of the time, you would have to hope that the message got sent. You'd come back three days later to see if somebody had responded."

A multifaceted collaboration

Much has changed since Fawzi first initiated a relationship with MUHAS to conduct the pneumonia study. The collaboration now involves HSPH, the Dar es Salaam City Council, MUHAS, Harvard Medical School, and departments in several of Harvard's affiliated hospitals. The partnership focuses on conducting research, building the capacity of local Tanzanian public health systems, training scientists, and practicing

(See **Fawzi**, next page)

Adatto

(Continued from previous page)

Bush declared, "I want justice ... and there's an old poster out West I recall that said, 'Wanted: Dead or Alive.'" Similarly, Adatto says, John McCain has said that he will "follow Osama bin Laden to the gates of hell."

Maverick heroes are appealing, Adatto writes, because they show the power of the individual in a world of economic and political forces often beyond individual control. They are also appealing, according to Adatto, because they are both insiders and outsiders — insiders in that they support the goals and ideals of American institutions, but outsiders in that they buck bureaucracy and are critics of the establishment. Reagan was a master at criticizing the Washington establishment as a sitting president, and, Adatto claims, "McCain is trying to do the same by portraying himself as an outsider even though he has been a senator for over two decades."

Presidents using pictures for political purposes, observes Adatto, is not new. Abraham Lincoln wryly thanked his photographer Mathew Brady for helping him win the White House.

Kiku Adatto will discuss 'Picture Perfect' as part of the Humanities Center's '20 Questions' series on Tuesday (Oct. 7) at 6:30 p.m. in the Thompson Room of the Barker Center. The evening will be moderated by Homi Bhabha, Anne F. Rothenberg Professor of the Humanities and director of the Humanities Center, and will include questions from James Carroll, Boston Globe columnist; Alex Jones, director of the Joan Shorenstein Center on the Press, Politics and Public Policy; Robin Kelsey, John L. Loeb Associate Professor of the Humanities; and Doris Sommer, Ira Jewell Williams Jr. Professor of Romance Languages and Literatures and professor of African and African-American studies.

Lincoln's campaign was the first to distribute mass-produced pictures of the candidate. Their popular appeal led one of Lincoln's advisers to conclude, "I am coming to believe that likenesses broad cast are excellent means of electioneering."

Today we take televised photo ops for granted, but they are a fairly recent phenomenon. During the 1968 presidential campaign between Richard Nixon and Hubert Humphrey, the phrase "photo opportunity" was used only once on the network evening newscasts, when network correspondent John Hart referred to Nixon's "deliberately casual moments, moments his programmers have labeled 'photo opportunities.'"

By the 1988 presidential race between George H.W. Bush and Michael Dukakis, more than half of the network evening news coverage focused on photo ops, ads, gaffes, and the machinations of media advisers.

"Today, with 24-hour cable news and the Internet," Adatto observes, "what was set in motion in 1988 has become full-blown, with ordinary citizens entering the fray of 'gotcha politics.'"

But, Adatto notes, words still count, as her take on a recent event illustrates: "George W. Bush's top-gun landing on the aircraft carrier the USS Abraham Lincoln in May 2003 was celebrated as the greatest photo op of all time. But two words on the banner, 'Mission Accomplished,' came to haunt his presidency." Adatto's point is that even in a world flooded with images, words matter.

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Theme of Ig Nobels: Redundancy redundancy

The 18th First Annual Ig Nobel winners will be showered with applause and paper airplanes at Sanders Theatre on Thursday (Oct. 2). Traveling from four continents, the 10 award recipients will be honored for achievements that "first make people laugh, and then make them think."

With true Nobel laureates handing out the prizes, the event celebrates the unusual, honors the imaginative, and spurs interest in science. Organized by the science humor magazine *Annals of Improbable Research* (AIR) and sponsored by three Harvard student groups — The Harvard Society of Physics Students, the Harvard Radcliffe Science Fiction Association, and the Harvard Computer So-

ciety — the event this year has the theme of "Redundancy."

The ceremony will also be packed with sketches, including the Win-a-Date-With-a-Nobel-Laureate Contest (William Lipscomb, age 89, will be this year's Win-a-Date prize) and the premiere of the mini-opera "Redundancy, Again," starring singers Maria Ferrante and Ben Sears (Harvard Law School), with conductor David Stockton (Office of the Provost) and backup operatic support from the Nobel laureates.

Thomas Michel, dean of education at Harvard Medical School, will open the ceremony by helping sword-swallower Dan Meyer repeat his performance. (Last year, Meyer won for his medical study

"Sword Swallowing and Its Side Effects," also becoming the first person ever to swallow a sword in Sanders Theatre.)

The ceremony will include 24/7 Lectures, in which each prize winner must explain his or her subject in 24 seconds — with a complete technical description — and then in seven words, using a clear summary that anyone can understand.

There will be a live Webcast of the Ig Nobel ceremony at www.improbable.com beginning at 7:15 p.m. Thursday (Oct. 2). A special preconcert performance by singing duo Paul & Storm will kick things off with the awards ceremony beginning promptly at 7:30 p.m. Tickets are available at the Harvard Box Office at (617) 496-2222.

Fawzi

(Continued from previous page)

public health.

Fawzi and his Tanzanian colleagues have jointly conducted numerous large randomized clinical trials and epidemiological studies on improving nutrition, curbing infectious diseases, and making mothers and children healthier. Currently 13 research studies are under way and six training grants are in place. Eleven funded research studies have already been completed since the collaboration started.

"While nutrition is the central focus of ongoing research activities, it is considered within a broader public health agenda," said Fawzi. "We use the funded research projects to develop infrastructure and foster a multidisciplinary approach to understanding the epidemiology of various public health problems."

Public health in practice

A program called "MDH" supports delivering high-quality treatment and care to HIV/AIDS patients. The city of Dar es Salaam owns and runs the health facilities. "Since the start of the program in late 2004, the MDH program has enrolled more than 45,000 adults and children, including 25,000 patients on antiretroviral therapy," said Fawzi. "Through provision of laboratory, clinical, and research training, the program aims to strengthen staffing, research, and infrastructure capacity, and to support the development of large-scale epidemiological studies for research into HIV/AIDS, TB, and other endemic infectious diseases in Tanzania."

MDH derives its name from the first letter of the three collaborating institutions (MUHAS, Dar es Salaam City Council, and HSPH). The program is funded through a U.S. grant from the President's Emergency Plan for AIDS Relief (PEPFAR) that involves research in Tanzania, Nigeria, and Botswana. HSPH Professor Phyllis Kanki is the principal investigator of the overall grant.

"The infrastructure and training opportunities that we are developing with our PEPFAR program are critical for the success of our overall training and research agenda in Tanzania," said Fawzi.

Research on nutrition and pregnancy outcomes

Despite good prenatal care coverage, many Tanzanian women experience adverse pregnancy outcomes. The partnership researchers are conducting a series of studies in Dar es Salaam to examine the efficacy of micronutrient supplementa-



Photo by Dan Beaudoin

One of the buildings used by the collaboration in Dar es Salaam.

For more information,

<http://harvardscience.harvard.edu/medicine-health/articles/harvard-initiative-global-health-recipient-nih-global-health-nutrition-gran>



To learn more about Harvard's work around the world,

www.hno.harvard.edu/worldmedia/

tion on these outcomes. To date, the researchers have found that giving prenatal vitamins B, C, and E to HIV-infected women has significant benefits in reducing fetal loss, low birth weight, and severe prematurity. The researchers have recently reported that similar beneficial effects were noted among HIV-negative pregnant women who receive multivitamin supplementation.

Research on nutrition and child health

The researchers also are examining whether the health of Tanzanian children can benefit from micronutrients, whether given through direct consumption or through breast milk.

"As an example, we looked at how improving the nutritional status of the mothers during pregnancy and lactation has an impact on child health," Fawzi said, "and we found that mothers who had better nutritional status during preg-

nancy tended to have children who are less likely to die in the first two years of life and less likely to have diarrhea and other infectious diseases."

The team is currently conducting three different randomized trials that examine the effect of direct supplementation of children on their health and survival.

Research on nutrition and HIV/AIDS and TB

The HIV/AIDS problem in Tanzania is exacerbated by a growing tuberculosis epidemic. The virus's ability to suppress the immune system tends to put HIV/AIDS-infected individuals at risk for contracting tuberculosis and increases the risk that latent TB will reactivate within those already infected, noted Fawzi.

The partnership researchers are examining the effects of multivitamins on clinical outcomes and immune responses among 850 men and women; all of the study's participants have tested positive for TB and about half are co-infected with HIV. Results so far suggest that micronutrients have significantly decreased the risk of TB recurrence.

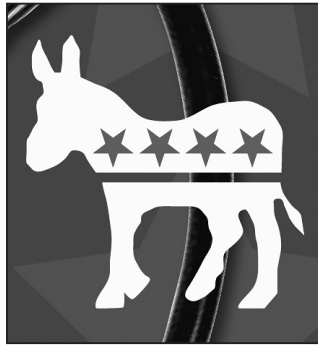
Future directions

Said Fawzi, "We hope to continue to do a number of research studies in the area of infectious diseases and maternal, newborn, and child health. Another area that we would like to do more work in is that pertaining to noncommunicable diseases, particularly cardiovascular disease and obesity." The team has recently started collaborating with partners in Uganda and India, and intends gradually to expand its links with other developing countries.

"Our vision is to further strengthen training and research in Dar es Salaam and increasingly use the site as a base for research and education at other sites in the African region and beyond," added Fawzi.

Fulfilling that vision has become even more possible. Fawzi now is the principal investigator of the Fostering Opportunities for Nutrition and Global Health Frameworks Program at Harvard, administered by the Harvard Initiative for Global Health (HIGH). The three-year, \$400,000 award from the National Institutes of Health's Fogarty International Center will be supplemented by an additional \$300,000 grant from the University.

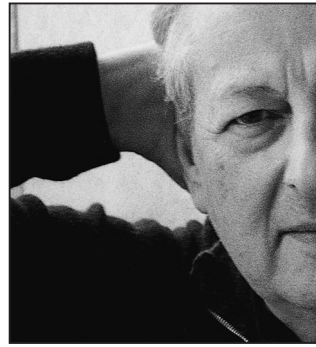
Inside



Health care debate
Obama, McCain advisers square off at HLS
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Tokyo's urban landscape
Architectural historian Hidenobu speaks at GSD
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Master Previn
Distinguished composer/
conductor teaches master class
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Rosamond Purcell/'Egg & Nest'

Photographer Rosamond Purcell will speak on 'Elegant Eggs & Remarkable Nests: An Artist's View of Natural History' on Tuesday (Oct. 7) at the Harvard Museum of Natural History, 26 Oxford St., at 6 p.m. Booksigning to follow. Free and open to the public. Call (617) 495-2773 or visit www.hmn.harvard.edu for more information.

ABOVE: Egret

Calendar

Events for October 2-16, 2008

concerts

Thu., Oct. 2—"Midday Organ Recital."
(The Memorial Church) Iris Lan '99,

organ, with Ayano Ninomiya '01, violin.
Adolphus Busch Hall, 29 Kirkland St.,
12:15 p.m. Free and open to the public.
Audience members are encouraged
to bring a lunch.

Thu., Oct. 2—"University Hall Recital
Series." (Music) Oni Buchanan, piano.
Faculty Room, University Hall, 12:15
p.m.

Fri., Oct. 3—"Pusey Room Recital
Series." (The Memorial Church)
Wolfgang David, violin, and David
Gompper, piano. Featuring music of

Brahms, Debussy, Pärt, and Gompper.
Pusey Room, the Memorial Church,
7:30 p.m. Free. carson_cooman@harvard.edu.

Sun., Oct. 5—"Longy Chamber
Orchestra Concert." (Harvard Box
Office) Featuring works by Mozart,
Stravinsky, and Beethoven, with guest
conductor Federico Cortese. Sanders
Theatre, 4 p.m. Tickets are \$15 general;
\$10 students/senior citizens.
Harvard Box Office (617) 496-2222.

Thu., Oct. 9—"Midday Organ Recital."
(The Memorial Church) David Enlow,
organist and choirmaster, Church of the
Resurrection, New York, New York, and
the Juilliard School. Adolphus Busch
Hall, 29 Kirkland St., 12:15 p.m. Free
and open to the public. Audience mem-
bers are encouraged to bring a lunch.

Sun., Oct. 12—"Wagner/Zwlich/
Elgar." (Harvard Box Office) Boston

(Continued on next page)

(Continued from previous page)

Conservatory Orchestra with Bruce Hangen, conductor; Michael Sakir, guest conductor; Irina Muresanu, violin; and Andrew Mark, cello. Sanders Theatre, 2 p.m. Tickets are \$12 general; \$10 alumni and WGBH; \$5 students/senior citizens; other discounts available. Harvard Box Office (617) 496-2222.

Wed., Oct. 15—**Bartok, Saint-Saens, Dvorak.** (Harvard Box Office) Boston Philharmonic Orchestra. Sanders Theatre, 7:30 p.m. Tickets are \$70/\$55/\$40/\$15 general; \$5 off students/senior citizens; other discounts available. Harvard Box Office (617) 496-2222.

Thu., Oct. 16—**“Midday Organ Recital.”** (The Memorial Church) Haesung Park, Thornton School of Music, University of Southern California, Los Angeles. Adolphus Busch Hall, 29 Kirkland St., 12:15 p.m. Free and open to the public. Audience members are encouraged to bring a lunch.

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

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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.

theater

American Repertory Theatre
Through 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. Hot Tix: Select performances to all productions have limited \$25 tickets available. Tickets are available through the A.R.T. Box Office (617) 547-8300, in person at the Loeb Drama Center Box Office, or www.amrep.org.*

Thu., Oct. 9-Sat., Oct. 11—**“Ajax in Iraq,”** written by Ellen McLaughlin and directed by Scot Zigler, uses Sophocles’ “Ajax” as a lens through which to view and interpret the current war in Iraq. World premiere presented by the A.R.T./MXAT Institute for Advanced Theatre Training. Discussions with Ellen McLaughlin will follow the 7:30 performances on Oct. 9 and 10, and also the 1:30 performance on Oct. 11.
—*Performances take place at Zero Arrow Theatre, corner of Arrow St. and Mass. Ave. at 7:30 p.m. each night, with an additional matinee at 1:30 p.m. on Saturday. Tickets are \$10 general; \$5 students/senior citizens; free for A.R.T. subscribers. Tickets are available through the A.R.T. Box Office (617) 547-8300, in person at the Loeb Drama Center Box Office, or www.amrep.org.*

film

Fri., Oct. 3—**“Screening and Discussion of Recent Work.”** (Davis Center) Andrei Khrzhanovsky, animated filmmaker. Room S050, concourse level, CGIS, 1730 Cambridge St., noon. www.daviscenter.fas.harvard.edu.

Sat., Oct. 4—**“Little Fugitive.”** (Du Bois Institute) Screening of Joanna Lipper’s remake of the 1953 film “Little Fugitive.” 5:30 p.m. Q&A with Lipper after the screening. Reception to follow. (617) 495-8508, www.dubois.fas.harvard.edu.

Thu., Oct. 16—**“Presentation of 2008 McMillan-Stewart Fellowship in Distinguished Filmmaking to Mahamat-Saleh Haroun.”** (Film Study Center) Screening of “Daratt (Dry Season)”; discussion with filmmaker to follow. Lecture hall, Carpenter Center, 24 Quincy St., 7:30 p.m.

Fri., Oct. 17—**“Screening of Short Films.”** (Film Study Center) Screening of short films by Mahamat-Saleh Haroun. Lecture hall, Carpenter Center, 24 Quincy St., 7 p.m.

Brazil Studies Program, DRCLAS
Film screenings take place in Tsai Auditorium, CGIS South, 1730 Cambridge St. Sponsored by the Brazil Studies Program, DRCLAS, and the Harvard Brazilian Organization.
Tue., Oct. 14—Mattos and Abreu’s **“Jongos, Calangos e Folias: Música Negra, Memória e Poesia”** (2005) at 6 p.m.

The Coyote’s Trail Film Series, DRCLAS
Film screenings take place in Tsai Auditorium, CGIS South, 1730 Cambridge St. Sponsored by Latin American Studies. chbarron@fas.harvard.edu, www.drclas.harvard.edu.
Thu., Oct. 9—Hill’s **“Guest Worker”** (2006) at 6 p.m.

Harvard Film Archive
All films are screened in the Main Auditorium of the Carpenter Center for the Visual Arts, 24 Quincy St. Video 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/>.

Thu., Oct. 2—No screenings
Fri., Oct. 3—**Boston Latino International Film Festival,** www.bliff.org
Sat., Oct. 4—**Boston Latino International Film Festival,** www.bliff.org
Sun., Oct. 5—**Boston Latino International Film Festival,** www.bliff.org
Mon., Oct. 6—**Recent work** by Ute Aurand, Milena Gierke, and Renate Sami at 7 p.m. with directors in person. Special events tickets are \$10.
Tue., Oct. 7—Free VES screening: **“High Treason”** (1928) at 7 p.m.
Wed., Oct. 8—Free VES screening: **“Coney Island at Night”** (1903) and **“Metropolis”** (1926) at 7 p.m.
Thu., Oct. 9—No screenings
Fri., Oct. 10—Palestine Documentary Today: **“The Roof,” “Around,”** and **“Rico in the Night”** at 7 p.m.; **“33 Days”** and **“The Shooter”** at 9 p.m.
Sat., Oct. 11—Martel’s **“La Ciénaga”** at 7 p.m.
Sun., Oct. 12—Shalom’s **“To See If I’m Smiling”** at 3 p.m.; Martel’s **“La Niña Santa”** at 7 p.m. with director in person. Special events tickets are \$10.
Mon., Oct. 13—Martel’s **“The Headless Woman”** at 7 p.m. with director in person. Special events tickets are \$10.
Tue., Oct. 14—Free VES screening: **“Goodbye, Dragon Inn”** (2003) at 7 p.m.
Wed., Oct. 15—Free VES screening: **“The Man with a Movie Camera”** (1929) at 7 p.m.
Thu., Oct. 16—Haroun’s **“Dry Season”** and **“Letter from New York”** and **“Expectations”** at 7:30 p.m. with director in person; free event
Fri., Oct. 17—Haroun’s **“Sex, Gumbo and Salted Butter”** and **“Kalala”** at 7 p.m. with director in person; free event

Real Colegio Complutense
Films are presented at Real Colegio Complutense, 26 Trowbridge St., in Spanish with English subtitles. Free and open to the public. (617) 495-3536, www.realcolegiocomplutense.harvard.edu.
Fri., Oct. 3—Saura’s **“Ay, Carmela!”** (1990) at 7:30 p.m.
Fri., Oct. 10—Hueriga’s **“Salvador (Puig Antich)”** (2006) at 7:30 p.m.
Fri., Oct. 17—Buñuel’s **“Los olvidados”** (1950) at 7:30 p.m.

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.
“Hillbilly at Harvard”—Saturdays, 9 a.m.-1 p.m.

exhibitions

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.

Arnold Arboretum
“Jamaica Plain Open Studios: Artists in the Arboretum” features Arboretum-inspired work by local artists. (Through 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.*

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
“Lossless” is a video installation by Rebecca Baron and Douglas Goodwin. The series of five pieces looks at the dematerialization of film into bits, exposing the residual effects of the process that makes file sharing possible. The project considers the impact of the digital age on filmmaking and film watching and the materiality and demateriality of film as an artistic medium. There will be an opening reception Thu., Oct. 2, 5:30-6:30 p.m. (Oct. 2-Dec. 7)
—*Sert Gallery, Carpenter Center, 24 Quincy St. Hours are Tue.-Sun., 1-5 p.m. (617) 495-3251, tblanch@fas.harvard.edu, www.ves.fas.harvard.edu.*

“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. (Through 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. (Through Jan. 15)
—*Fine Arts Library. (617) 496-1502, rsennett@fas.harvard.edu.*

Graduate School of Design
“New Trajectories: Contemporary Architecture in Croatia and Slovenia” features thirteen design practices high-

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	CIAS
Committee on Iranian Studies	CIS
David Rockefeller Center for Latin American Studies	DRCLAS
Division of Biological Sciences	BDS
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 Philosophy of Education Research Center	OWF 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



Still from 'Lossless 3,' 2007, digital video, 10 minutes

lighting 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. 19)
—Gund Hall Gallery, GSD, 48 Quincy St. Free. bkng@gsd.harvard.edu, www.gsd.harvard.edu.

Graduate School of Education
"Splendid Scenes" features traditional Chinese paintings by Weicheng Huang, a graduate of the Yunnan Art Institute who has exhibited his works in China, Taiwan, and Canada. (Through Oct. 17)
—Gutman Library, GSE. www.gse.harvard.edu/library/spotlight/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. (Ongoing)

—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. Tours are given Mon.-Fri. at 12:15 and 2 p.m. (617) 495-9400, www.harvardartmuseum.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 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)

"Language of Color" looks at the vastly different ways and reasons animals display color. This exhibition combines dramatic specimens from across the animal kingdom with computer interactives, hands-on activities, and a stunning display of live dart frogs. Visitors will learn how color and its perception have co-evolved, resulting in a complex and diverse palette used to camouflage, startle predators, mimic other animals, attract a mate, or intimidate a rival. (Through Sept. 6, 2009)

"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 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 reserva-

tions; 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.hmnh.harvard.edu.

Holyoke Center
"Just One Thing" features photographs by Sarah Bettencourt created with a medium format film camera through a slow, deliberate process. The images focus one's gaze on an isolated subject matter. (Oct. 10-Nov. 5)
—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.

"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. (Through 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. (Through 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.

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. 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)

"Storyed 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

Oct. 2

'Lossless' is a video installation by Rebecca Baron and Douglas Goodwin looking at the dematerialization of film into bits. The exhibit is on view in the Sert Gallery at the Carpenter Center through Dec. 7. There will be an opening reception tonight (Oct. 2), 5:30-6:30. See exhibitions, page 22.

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. (Through 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.

"Through the Camera Lens: Theodore Roosevelt and the Art of Photography" commemorates the 150th anniversary of Theodore Roosevelt's birth. (Through May 2009)
■ Related lecture: Fri., Oct. 3—**"Distance in His Eyes."** Ken Burns, Florentine Films, speaks on his upcoming feature film, "The National Parks: America's Best Idea." Sanders Theatre, 4 p.m. Free, no tickets required. Seating is limited; first-come, first-served.
—Pusey Library corridor, including the Theodore Roosevelt Gallery. Mon.-Fri., 9 a.m.-4:45 p.m. (617) 384-7938.

Resichauer Institute
"Tapestry in Architecture: Creating Human Spaces" features work by artist Mitsuko Asakura, well-known for her innovative combination of Japanese traditional dyeing and weaving with the techniques of Western tapestry. (Through Nov. 14)
—Japan Friends of Harvard Concourse, CGIS South Building, 1730 Cambridge St. Hours are Mon.-Fri., 8 a.m.-8 p.m. www.fas.harvard.edu/~rjfs.

Schlesinger Library
"From Exclusion to Empowerment: Chinese American Women in New England." (Oct. 10-March 5)
—Schlesinger Library, Radcliffe Yard, 10 Garden St. (617) 495-8647.

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

(Continued on next page)

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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. 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., Oct. 2—"3 Architects: 3 Design Practices." (GSD Loeb Fellows) James Brown, principal, Public Architecture, San Diego; Rob Lane, urban designer, Regional Plan Association, New York; and Heather Tremain, principal, reSource Rethinking Building, Vancouver. Stubbins Room 112, Gund Hall, GSD, 48 Quincy St., 12:30 p.m. (617) 495-9345, syoung@gsd.harvard.edu.

Thu., Oct. 2—"Abusively Subtitling 'Memories of Agano': A Friendly Collaboration." (Carpenter Center) Abé Mark Nornes, University of Michigan. Location TBA, 4 p.m. (617) 495-3251.

Thu., Oct. 2—"Reading the Urban Landscape of Tokyo: Ecology and History." (GSD) Jinnai Hidenobu, Japanese architectural historian. Piper Auditorium, Gund Hall, GSD, 48 Quincy St., 6 p.m. Free and open to the public. bueno@fas.harvard.edu.

Fri., Oct. 3—"Next Generation: Design Matters." (GSD Loeb Fellows) Roger Cummings, Juxtaposition Arts, Minneapolis; John Werner, Citizen Schools, Boston. Stubbins Room 112, Gund Hall, GSD, 48 Quincy St., 12:30 p.m. (617) 495-9345, syoung@gsd.harvard.edu.

Fri., Oct. 3—"Distance in His Eyes." (Houghton Library) Ken Burns, Florentine Films, speaks on his upcoming feature film, "The National Parks: America's Best Idea." Sanders Theatre, 4 p.m. Free, no tickets required. Seating is limited; first-come, first-served. Harvard Box Office (617) 496-2222.

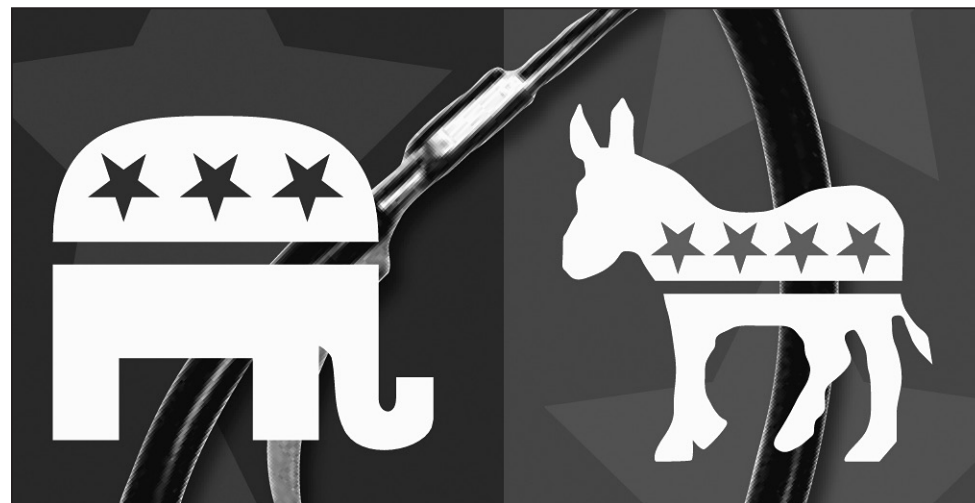
Sat., Oct. 4—"New England East Asian Art History Seminar." (Fairbank Center, Reschauer Institute) Jinnai Hidenobu, Hôtei University, "The Amusement Districts of Tokyo: On the Historical Transition of Their Spatial Structure"; Ken Oshima, University of Washington, "Hijiribashi: Spanning Time and Crossing Place"; and Susan Napier, Tufts University, "Treasure Towns: The City in Japanese Popular Culture." Room 515, Sackler Museum, 2 p.m.

Mon., Oct. 6—"Climate Change and Healthy Neighborhood Design." (GSD Loeb Fellows) India Lee, Neighborhoods, Housing and Community Development, Cleveland Foundation; Edward Morris, The Canary Project, New York; and Susannah Saylor, The Canary Project, New York. Stubbins Room 112, Gund Hall, GSD, 48 Quincy St., 12:30 p.m. (617) 495-9345, syoung@gsd.harvard.edu.

Tue., Oct. 7—"Free Lunchtime Tour of Ancient Egypt and Cyprus." (Semitic Museum) Semitic Museum, 6 Divinity Ave., 12:15 p.m. www.fas.harvard.edu/~semitic.

Tue., Oct. 7—"Design for Sustainability and Preservation." (GSD Loeb Fellows) Lin Wang, Shanghai Urban Planning Administration Bureau; and Dorji Yangki, Department of Culture for Bhutan. Stubbins Room 112, Gund Hall, GSD, 48 Quincy St., 12:30 p.m. (617) 495-9345, syoung@gsd.harvard.edu.

Thu., Oct. 9—"The Mazarin Chest Project: The Conservation, Science, and Material Culture of Japanese Export Lacquer." (HAM) Rupert



Faulkner, Victoria and Albert Museum, London. Room TBA, Sackler Museum, 4 p.m.

Thu., Oct. 9—"Double Agency: Tafuri/Piranesi — The Remix." (GSD) Mark Rakatansky, principal, Mark Rakatansky Studio, and Columbia University. Piper Auditorium, Gund Hall, GSD, 6:30 p.m. Free and open to the public.

Thu., Oct. 9—"Ajax in Iraq." (A.R.T.) Post-performance discussion with Ellen McLaughlin, playwright. Zero Arrow Theatre, 7:30 p.m. Tickets are \$10 general; \$5 students/senior citizens; free for A.R.T. subscribers. Tickets are available through the A.R.T. Box Office (617) 547-8300, in person at the Loeb Drama Center Box Office, or www.amrep.org. See theater.

Fri., Oct. 10—"Deathbowl to Downtown: The Evolution of Skateboarding in New York City." (GSD) Film screening and conversation with filmmakers Coan "Buddy" Nichols and Rick Charnoski. Piper Auditorium, Gund Hall, GSD, 6:30 p.m. Free and open to the public.

Fri., Oct. 10—"Ajax in Iraq." (A.R.T.) Post-performance discussion with Ellen McLaughlin, playwright. Zero Arrow Theatre, 7:30 p.m. Tickets are \$10 general; \$5 students/senior citizens; free for A.R.T. subscribers. Tickets are available through the A.R.T. Box Office (617) 547-8300, in person at the Loeb Drama Center Box Office, or www.amrep.org. See theater.

Sat., Oct. 11—"Ajax in Iraq." (A.R.T.) Post-performance discussion with Ellen McLaughlin, playwright. Zero Arrow Theatre, 1:30 p.m. Tickets are \$10 general; \$5 students/senior citizens; free for A.R.T. subscribers. Tickets are available through the A.R.T. Box Office (617) 547-8300, in person at the Loeb Drama Center Box Office, or www.amrep.org. See theater.

Tue., Oct. 14—"Discussions in Architecture." (GSD) Wes Jones and Preston Scott Cohen, principal, jones, partners: architecture. Piper Auditorium, Gund Hall, GSD, 6:30 p.m. Free and open to the public.

Wed., Oct. 15—"The Forest and the City: The Birth of Modern Planning in Mexico City, 1880-1940." (DRCLAS) Alfonso Valenzuela Aguilera, University of California, Berkeley. Room S-250, 2nd floor, CGIS South, 1730 Cambridge St., 6 p.m. karl@fas.harvard.edu, www.drclas.harvard.edu/events.

Thu., Oct. 16—"Free Lunchtime Tour of Ancient Israel." (Semitic Museum) Semitic Museum, 6 Divinity Ave., 12:15 p.m. www.fas.harvard.edu/~semitic.

Thu., Oct. 16—"Commemoration of Genevieve McMillan." (Film Study Center) Lecture hall, Carpenter Center, 24 Quincy St., 5 p.m. Reception to follow.

Thu., Oct. 16—"Global Space in Mutation." (GSD) Scott Lash, Goldsmiths College, University of London. Piper Auditorium, Gund Hall, GSD, 6:30 p.m. Free and open to the public.

Thu., Oct. 16—"Presentation of 2008 McMillan-Stewart Fellowship in Distinguished Filmmaking to Mahamat-Saleh Haroun." (Film Study Center) Screening of "Daratt (Dry Season)"; discussion with filmmaker to follow. Lecture hall, Carpenter Center, 24 Quincy St., 7:30 p.m.

Thu., Oct. 16—"The Relationship Between Satisfaction and Loyalty: A Focus on the Spanish Arts Consumer." (Real Colegio Complutense) Javier Flores, Universidad Complutense de Madrid. Conference room, RCC, 26 Trowbridge St., 7:30 p.m. Free and open to the public. www.realcolegiocomplutense.harvard.edu.

business/law

Thu., Oct. 2—"Health Care Policy in the 2008 Presidential Elections." (Petrie-Flom Center, HLS) Debate featuring David Cutler, health care adviser to the Obama campaign, and Tomas Philipson, health care adviser to the McCain campaign. Ropes Gray, Pound Hall, HLS, noon. Lunch provided. (617) 496-4662, rdawes@law.harvard.edu, www.law.harvard.edu/programs/petrie-flom.

Tue., Oct. 7—"Sharia Law, Human Rights and Justice in Nigeria." (Committee on African Studies) Hauwa Ibrahim, Radcliffe Institute, Nigerian human rights attorney. Room S250, CGIS South, 1730 Cambridge St., 4:15 p.m. (617) 495-5265 www.fas.harvard.edu/~cafrica.

Wed., Oct. 15—"From Subprime to Prime Time — Implications of the U.S. Credit Crisis for Asia and China." (HKS China Caucus) Thomas Deng, Goldman Sachs, Asia. Littauer 382, HKS, 6 p.m.

conferences

Fri., Oct. 10-Sun., Oct. 12—"28th Annual Harvard Celtic Colloquium." (Celtic Languages and Literatures) Featuring works-in-progress in Celtic languages, literatures, and cultural, historical, or social science topics directly related to Celtic studies. Thompson Room, Barker Center, 12 Quincy St., Fri.: 9 a.m.-5:45 p.m.; Sat.: 9:30 a.m.-6:45 p.m.; Sun.: 9:30 a.m.-1:30 p.m. Free and open to the public; no pre-registration required. www.fas.harvard.edu/~celtic.

Wed., Oct. 22-Fri., Oct. 24—"Defining New Frontiers To Eradicate Cancer." (HMS) The latest advances in cancer research and treatment will be presented by leading researchers and clinicians from around the world. Featuring keynote speaker Philip A. Sharp, Nobel laureate. Joseph B. Martin Conference Center, HMS, 77 Avenue Louis Pasteur. Register online at www.bidmc-cancer-symposium.com or call (617) 337-9501 by Oct. 8.

Fri., Oct. 24-Sat., Oct. 25—"Cell and Genome Stability Mechanisms in Cancer and Other Diseases." (Genetics and Complex Diseases, HSPH, and others) 11th Annual John B. Little Center for Radiation Sciences & Environmental Health Symposium. Snyder Auditorium, Kresge G-1, HSPH, 677 Huntington Ave., Fri.: 1:5:30 p.m.;

Sat.: 9 a.m.-5 p.m. (617) 432-3763, gcddept@hsph.harvard.edu. Registration required by Oct. 17 at www.hsph.harvard.edu/research/jbl-center/jbl-symposium.

environmental sciences

Thu., Oct. 2—"Rapid Climate Change in the Arctic: Why It Should Concern Us." (Harvard Institute for Learning in Retirement) James J. McCarthy, Harvard University. Grossman Common Room, 51 Brattle St., 3:15 p.m. Free and open to the public.

Fri., Oct. 3—"Distance in His Eyes." (Houghton Library) Ken Burns, Florentine Films, speaks on his upcoming feature film, "The National Parks: America's Best Idea." Sanders Theatre, 4 p.m. Free, no tickets required. Seating is limited; first-come, first-served. Harvard Box Office (617) 496-2222.

Mon., Oct. 6—"The Future of Energy." (HUCE) John Rowe, Exelon Energy Corporation. Science Center D, 5 p.m. Free and open to the public. www.environment.harvard.edu.

Tue., Oct. 7—"European Leadership on Global Environmental Challenges." (CES, KKKalis Program, WCFIA, HUCE) Stavros Dimas, European commissioner for the environment. Weiner Auditorium, HKS, 4:30 p.m. Free and open to the public. euseries@fas.harvard.edu.

Wed., Oct. 15—"Voluntary Corporate Environmental Initiatives and Shareholder Wealth." (HKS) Karen Fisher-Vanden, Pennsylvania State University, and Karin Thorburn, Dartmouth College. Room L-382, HKS, 79 JFK St., 4:10 p.m. (617) 496-8054, <http://isites.harvard.edu/icb/icb.do?keyword=k40206>.

ethics

Thu., Oct. 2—"Neuroscience and Responsibility." (Center for Ethics) Walter Sinnott-Armstrong, Dartmouth College. Starr Auditorium, HKS, 4:30 p.m.

Tue., Oct. 7—"Sharia Law, Human Rights and Justice in Nigeria." (Committee on African Studies) Hauwa Ibrahim, Radcliffe Institute, Nigerian human rights attorney. Room S250, CGIS South, 1730 Cambridge St., 4:15 p.m. (617) 495-5265 www.fas.harvard.edu/~cafrica.

health sciences

Thu., Oct. 2—"Health Care Policy in the 2008 Presidential Elections." (Petrie-Flom Center, HLS) Debate featuring David Cutler, health care adviser to the Obama campaign, and Tomas Philipson, health care adviser to the McCain campaign. Ropes Gray, Pound Hall, HLS, noon. Lunch provided. (617) 496-4662, rdawes@law.harvard.edu, www.law.harvard.edu/programs/petrie-flom.

Sat., Oct. 4—"Partners In Health 15th Annual Thomas J. White Symposium. "Pushing the Boundaries: Past, Present and Future." (Harvard Box Office) Featuring speakers from Partners In Health partner projects around the world, including co-founders Paul Farmer and Ophelia Dahl.

Oct. 2

The Petrie-Flom Center at Harvard Law School (HLS) presents 'Health Care Policy in the 2008 Presidential Elections,' a debate between health care advisers to the Obama and McCain campaigns, today (Oct. 2) at noon in Ropes Gray, Pound Hall, HLS. See lectures, business/law, this page, for more information.

Sanders Theatre, 3 p.m. Free tickets (limit four per person, valid until 2:45 p.m.) Harvard Box Office (617) 496-2222.

Tue., Oct. 7—"RNAi: From Mechanism to Medicine." (Harvard Cancer Center) Craig Mello, University of Massachusetts Medical School. Joseph P. Martin Conference Center Amphitheater, 5 p.m. Reception to follow. Open to members of the Harvard Cancer community. Seating is limited; register at www.dfhcc.harvard.edu/registration.

Thu., Oct. 16—"Eliminating Disparities in Healthcare: The Role of Healthcare Professionals." (Radcliffe Institute) Lisa A. Cooper, Johns Hopkins Medical Institutions. Radcliffe Gymnasium, 10 Garden St., 4 p.m. Free and open to the public. (617) 495-8600, www.radcliffe.edu.

Medical School

Wed., Oct. 8—"Latino Health Forum. "My Epidemiological Epiphany About Diversity." (HMS Office for Diversity and Community Partnership, Commonwealth Fund/Harvard University Fellowship in Minority Health Policy, Consortium of Harvard-affiliated Offices for Faculty Development and Diversity) David Hayes-Bautista, University of California, Los Angeles. Benjamin Waterhouse Room, Gordon Hall, HMS, 25 Shattuck St., 12:30 p.m. (presentation), 2 p.m. (reception). RSVP by Fri., Oct. 3, to (617) 432-4698 or melissa_alexis@hms.harvard.edu.

Thu., Oct. 16—"New Ideas about Human Behavior in Economics and Medicine." (Health Care Policy) 8th Annual Marshall J. Seidman Lecture. Peter R. Orszag, director, Congressional Budget Office. Carl W. Walter Amphitheater, Tosteson Medical Education Center, HMS, 260 Longwood Ave., 4:30 p.m. craw@hcp.med.harvard.edu.

Wed., Oct. 22-Fri., Oct. 24—"Defining New Frontiers To Eradicate Cancer." (HMS) The latest advances in cancer research and treatment will be presented by leading researchers and clinicians from around the world. Featuring keynote speaker Philip A. Sharp, Nobel laureate. Joseph B. Martin Conference Center, HMS, 77 Avenue Louis Pasteur. Register online at www.bidmc-cancer-symposium.com or call (617) 337-9501 by Oct. 8.

Harvard School of Public Health

Fri., Oct. 3—"Learning from Catastrophe: The Public Health Consequences of Katrina for New Orleans and the Mississippi Gulf Coast." (HSPH Office of Diversity, HMS Office for Diversity and Community Partnership, Cambridge Health Alliance) William (Scott) Griffies, Louisiana State University and LSU Psychiatric Emergency Service, New Orleans; Roberta Avila, Mississippi Coast Interfaith Disaster Task Force; Jed Horne, author, former city editor, The Times-Picayune; Jacques Morial, Louisiana Justice Institute; Ichiro Kawachi, HSPH; and Robert Blendon, HSPH. Auditorium G-2, HSPH, 677 Huntington Ave., 3 p.m. Free and open to the public. (617) 384-5411, www.hsph.harvard.edu/diversity.

Mon., Oct. 6—**“Health Inequalities: Gendered Puzzles and Conundrums.”** (CPDS) Gita Sen, Indian Institute of Management, Bangalore, India. Kresge G-2, HSPH, 5:30 p.m. Reception prior to lecture at Sebastian’s, Kresge Building, 4:30 p.m. Free and open to the public. RSVP to (617) 495-8498 or caugustin@hsph.harvard.edu. www.hsph.harvard.edu/cpds.

Tue., Oct. 7—**“How Fragile Is a Cell?”** (Molecular and Integrative Physiological Sciences) Enhua Zhou, HSPH. Room 1302, Building 1, HSPH, 665 Huntington Ave., 9:30 a.m.

Tue., Oct. 7—**“Grand Re-opening of the Harvard Center for Population and Development Studies.”** (CPDS) Open house at CPDS, 9 Bow St., 1:30-3:30 p.m. Program at Charles Hotel, 1 Bennett St., 4 p.m. Free and open to the public. RSVP to (617) 384-8985, events@hsph.harvard.edu, www.hsph.harvard.edu/cpds.

Tue., Oct. 14—**“Pulmonary Innate Immunity in Viral Infection: Role of Macrophage Scavenger Receptor-MARCO?”** (Molecular and Integrative Physiological Sciences) Sanjukta Ghosh, HSPH. Room 1302, Building 1, HSPH, 665 Huntington Ave., 9:30 a.m.

Fri., Oct. 24-Sat., Oct. 25—**“Cell and Genome Stability Mechanisms in Cancer and Other Diseases.”** (Genetics and Complex Diseases, HSPH, and others) 11th Annual John B. Little Center for Radiation Sciences & Environmental Health Symposium. Snyder Auditorium, Kresge G-1, HSPH, 677 Huntington Ave., Fri.: 1-5:30 p.m.; Sat.: 9 a.m.-5 p.m. (617) 432-3763, gcddept@hsph.harvard.edu. Registration required by Oct. 17 at www.hsph.harvard.edu/research/jbl-center/jbl-symposium.

humanities

Thu., Oct. 2—**The Alain LeRoy Locke Lectures. “Deconstructing Opera, Creating Opera in a Post-Colonial World.”** (Du Bois Institute) Anthony Davis, University of California, San Diego. Lecture 2 of 3: “The Trickster — The Recurring Role of the Trickster, Dancing on the Cultural Divide, Playing with the Post-Modern, Retelling History.” Thompson Room, Barker Center, 12 Quincy St., 4 p.m. Q&A and reception to follow. (617) 495-8508, www.dubois.fas.harvard.edu.

Thu., Oct. 2—**“Rules, Regresses and Rational Belief.”** (Philosophy) Crispin Wright, NYU and University of St. Andrews. Room 305, Emerson Hall, 4 p.m.

Thu., Oct. 2—**“Abusively Subtitling ‘Memories of Agano’: A Friendly Collaboration.”** (Carpenter Center) Abé Mark Nornes, University of Michigan. Location TBA, 4 p.m. (617) 495-3251.

Thu., Oct. 2—**“Word and Image in the Philosophy of Hobbes.”** (CES) Quentin Skinner, *emeritus*, University of Cambridge. Lower level conference room, CES, 27 Kirkland St., 4:15 p.m. Free and open to the public. armitage@fas.harvard.edu.

Thu., Oct. 2—**“Neuroscience and Responsibility.”** (Center for Ethics) Walter Sinnott-Armstrong, Dartmouth College. Starr Auditorium, HKS, 4:30 p.m.

Thu., Oct. 2—**“Black Music, Ownership, and Value.”** (Music) Ron Radano, University of Wisconsin, Madison. Davison Room, Music Building, 5:15 p.m.

Thu., Oct. 2—**“Undergraduate Event on ‘Elite Education.’”** (Humanities Center) Tsai Auditorium, CGIS South Building, 1730 Cambridge St., 6 p.m. www.fas.harvard.edu/~humcentr.

Fri., Oct. 3—**“Screening and Discussion of Recent Work.”** (Davis Center) Andrei Khrzhanovsky, animated filmmaker. Room S050, concourse level, CGIS, 1730 Cambridge St., noon. www.daviscenter.fas.harvard.edu.

Fri., Oct. 3—**The Alain LeRoy Locke Lectures. “Deconstructing Opera, Creating Opera in a Post-Colonial World.”** (Du Bois Institute) Anthony Davis, University of California, San Diego. Lecture 3 of 3: “Referentiality: Memory and Subtext: The Resonance in Cultural Memory, Creating Time, Place, and Attitude.” Thompson Room, Barker Center, 12 Quincy St., 4 p.m. Q&A and reception to follow. (617) 495-8508, www.dubois.fas.harvard.edu.

Fri., Oct. 3—**“Maintaining the Mystique: The Literary Legacy of the Reizei Family, 1300-2008.”** (Reischauer Institute) Steven Carter, Stanford University. Porté Room S250, CGIS South, 1730 Cambridge St., 4 p.m. www.fas.harvard.edu/~rijs.

Fri., Oct. 3—**“David Hall and the Writing of American Religious History.”** (HDS) David N. Hempton, HDS. Sperry Room, Andover Hall, HDS, 5 p.m. (617) 384-8394.

Mon., Oct. 6—**“Art, Life, and Tradition in Viktor Domontovych’s Novel ‘Bez gruntu.’”** (URI) Taras Koznarsky, University of Toronto and fellow, URI. Room S-050, CGIS South Building, 1730 Cambridge St., 4 p.m. (617) 495-4053, www.huri.harvard.edu/cal-endar.html.

Mon., Oct. 6—**“Is An Eclipse Described in Homer’s ‘Odyssey’?”** (SEAS) Marcelo Magnasco and Constantino Baikouzis, Rockefeller University. Pierce 209, 4 p.m. brenner@seas.harvard.edu, www.seas.harvard.edu.

Tue., Oct. 7—**“‘20 Questions’ with Kiku Adatto.”** (Humanities Center) “20 Questions” with Kiku Adatto. Thompson Room, Barker Center, 12 Quincy St., 6 p.m. www.fas.harvard.edu/~humcentr.

Tue., Oct. 7—**“Dove va l’Italia? Riflessioni di Dante Della Terza.”** (Romance Languages and Literatures, Humanities Center) Dante Della Terza, Harvard University. Barker Center 114, 7:30 p.m. www.fas.harvard.edu/~rll.

Wed., Oct. 8—**“Culture Contact and Social Change Along Ancient China’s Southwestern Frontier in the First Millennium BCE.”** (Asia Center, GSAS, Anthropology, East Asian Languages and Civilizations) Alice Yao, University of Toronto. Peabody Museum 14A, 11 Divinity Ave., 5 p.m. miller9@fas.harvard.edu.

Thu., Oct. 9—**“Who Is Asking? Living Words, Attentive Silence, and the Koan of Zen ‘Prayer.’”** (HDS) Steve Kanji Ruhl, Zen Buddhist minister. CSWR Common Room, 42 Francis Ave., noon. Soup provided; please bring your own beverage. (617) 384-7571, jvonwald@hds.harvard.edu.

Thu., Oct. 9—**“Good-Looking and Irresistible: The Irish Hero from Early Saga to Classical Poetry.”** (Celtic Languages and Literatures) Damian McManus, Trinity College, Dublin. Faculty Club Library, 20 Quincy St., 5 p.m. Free and open to the public. www.fas.harvard.edu/~celtic.

Thu., Oct. 9—**“American Fugue: An American Journey.”** (Seminar on Modern Greek Literature and Culture) Reading by Alexis Stamatis, author. Room 133, Barker Center, 12 Quincy St., 6:30 p.m. Free and open to the public. rapti@fas.harvard.edu.

Fri., Oct. 10—**“Dressing a Wolf in Sheep’s Clothing: The Composition of the Life of Alexander Nevskii.”** (Davis Center) Donald Ostrowski, Harvard University. Room S354, 3rd floor, CGIS, 1730 Cambridge St., 12:15 p.m. www.daviscenter.fas.harvard.edu.

Tue., Oct. 14—**“The Resurgence of Imagination.”** (CSWR) Sudhir Kakar, psychoanalyst and writer; with responses from Anne Monius, HDS; and Richard Kearney, Boston College. CSWR Common Room, 42 Francis Ave., 3:30 p.m. Free and open to the public.

Oct. 2



The Fairbank Center presents “The Beijing Olympics’ today (Oct. 2) at 4 p.m. Authors John Powers of the Boston Globe, Susan Brownell of the University of Missouri, St. Louis, and Ross Terrill of the Fairbank Center will speak in Room S020, CGIS South, 1730 Cambridge St. Call (617) 495-4046 or e-mail gestewar@fas.harvard.edu for more information.

Tue., Oct. 14—**“The Morris Gray Lecture: A Reading by Carl Phillips.”** (English) Carl Phillips, poet, Washington University, St. Louis. Lecture Hall, Sackler Museum, 485 Broadway, 6 p.m. Free and open to the public. www.fas.harvard.edu/~english.

Wed., Oct. 15—**“‘20 Questions’ with Tarun Khanna.”** (Humanities Center) “20 Questions” with Tarun Khanna. Thompson Room, Barker Center, 12 Quincy St., 6 p.m. www.fas.harvard.edu/~humcentr.

Thu., Oct. 16—**“Fictive Identities, Metaphorical Truths.”** (Philosophy) David Hills, Stanford University. Room 305, Emerson Hall, 4 p.m.

Thu., Oct. 16—**“The Observer Observed: Gorky and the Art of the Literary Memoir.”** (Humanities Center, Davis Center, Slavic Languages and Literatures) Donald Fanger, *emeritus*, Harvard University, in conversation with William Mills Todd III, Harvard University. Thompson Room, Barker Center, 12 Quincy St., 4:15 p.m. Open to the public. Seating is limited. Reception to follow. www.fas.harvard.edu/~humcentr.

Thu., Oct. 16—**Lauro de Bosis Lecture 1 of 3. “Reproduction/Reproduct: An Experiment in Historical Anthropology.”** (Romance Languages and Literatures, Humanities Center) Carlo Ginzburg, Scuola Normale Superiore di Pisa. Room 133, Barker Center, 12 Quincy St., 4:15 p.m. www.fas.harvard.edu/~rll.

Thu., Oct. 16—**“Important Women in Tibetan Buddhist History and Their Lineages.”** (CSWR, Harvard Buddhist Community) Lama Tsultrim Allione, Buddhist teacher and former nun; moderated by Janet Gyatso, HDS. CSWR Common Room, 42 Francis Ave., 5:15 p.m. Free and open to the public.

information technology

Wed., Oct. 8—**IIC-CS Joint Colloquium.**

“**BigDog — A Dynamic Quadruped Robot.**” (IIC) Alfred Rizzi, lead robotics scientist, Boston Dynamics. Room 330, 60 Oxford St., 4 p.m. http://iic.harvard.edu.

poetry/prose

Tue., Oct. 7—**“Poetry Reading by Rae Armantrout.”** (English) Rae Armantrout. The Plimpton Room, Barker Center, 6 p.m. Free and open to the public.

Thu., Oct. 9—**“American Fugue: An American Journey.”** (Seminar on Modern Greek Literature and Culture) Reading by Alexis Stamatis, author. Room 133, Barker Center, 12 Quincy St., 6:30 p.m. Free and open to the public. rapti@fas.harvard.edu.

Tue., Oct. 14—**“The Morris Gray Lecture: A Reading by Carl Phillips.”** (English) Carl Phillips, poet, Washington University, St. Louis. Lecture Hall, Sackler Museum, 485 Broadway, 6 p.m. Free and open to the public. www.fas.harvard.edu/~english.

Thu., Oct. 16—**“Cambridge READS.”** (Harvard Box Office) Presentation by Julia Alvarez, author of “How the Garcia Girls Lost Their Accents,” followed by Q&A session. Sanders Theatre, 7:30 p.m. Free tickets (limit four per person, valid until 7:15 p.m.) available beginning Oct. 4. Harvard Box Office (617) 496-2222. Tickets also available at the Cambridge Public Main Library and Harvard Bookstore. www.cambridgereads.org.

science

Thu., Oct. 2—**“Condensed Matter Theory Seminar.”** (Physics) Andrei Bernevig, Princeton University. Lyman 425, 1 p.m.

Thu., Oct. 2—**“Exploring Electron Transfer: From Simple Photochemistry to Energy Conversion.”** (Woodward Lectures in the Chemical Sciences, Physical Chemistry Seminar) Troy van Voorhis, MIT. Pfizer Lecture Hall, Mallinckrodt Labs, 12 Oxford St., 4 p.m.

Thu., Oct. 2—**“The State of Cognitive Neuroscience: Accomplishments and Prospects.”** (Mind/Brain/Behavior Interfaculty Initiative) Speakers include Alfonso Caramazza, Stephen Kosslyn, Daniel Schacter, and Marc Hauser (moderator), all of Harvard University. Yenching Auditorium, 2 Divinity Ave., 4 p.m. Free and open to the public. http://mbb.harvard.edu.

Thu., Oct. 2—**“Neuroscience and Responsibility.”** (Center for Ethics) Walter Sinnott-Armstrong, Dartmouth College. Starr Auditorium, HKS, 4:30 p.m.

Sun., Oct. 5—**“Tuna: A Love Story.”** (HMNH) Richard Ellis, author. HMNH, 26 Oxford St., 2 p.m. Booksigning to follow. Free with admission. (617) 495-2773, www.hmnh.harvard.edu.

Mon., Oct. 6—**“Transition Metal-Catalyzed Carbon-Carbon and Carbon-Heteroatom Bond-Forming Processes: Progress, Applications and Mechanistic Studies.”** (Max Tishler Prize Lecture) Stephen Buchwald, MIT. Pfizer Lecture Hall, Mallinckrodt Labs, 12 Oxford St., 4 p.m.

Mon., Oct. 6—**“Is An Eclipse Described in Homer’s ‘Odyssey’?”** (SEAS) Marcelo Magnasco and Constantino Baikouzis, Rockefeller University. Pierce 209, 4 p.m. brenner@seas.harvard.edu, www.seas.harvard.edu.

Mon., Oct. 6—**“Reading Between the Spectral Lines: Revealing Interactions Within Living Cells.”** (Radcliffe Institute) Carol Robinson, University of Cambridge, England. Room 102, Sherman Fairchild Building, 7 Divinity Ave., 4:15 p.m. Free and open to the public. (617) 495-8600, www.radcliffe.edu.

Tue., Oct. 7—**“Elegant Eggs & Remarkable Nests: An Artist’s View of Natural History.”** (HMNH) Rosamond

Purcell, photographer. HMNH, 26 Oxford St., 6 p.m. Booksigning to follow. Free and open to the public. (617) 495-2773, www.hmnh.harvard.edu.

Tue., Oct. 14—**“MBB Conversations Event.”** (Mind/Brain/Behavior Interfaculty Initiative) Join MBB faculty for conversations on aesthetics, ethics, mental representation, Darwin, and the unconscious and the law. Moderated by Marc Hauser, Harvard University. Yenching Auditorium, 2 Divinity Ave., 4 p.m. Free and open to the public. http://mbb.harvard.edu.

Wed., Oct. 15—**“A Simpler Origin for Life.”** (Harvard Origins of Life Initiative) Robert Shapiro, New York University. Room 1068, Biological Laboratories, 16 Divinity Ave., 4 p.m. Free and open to the public.

Thu., Oct. 16—**“TBA.”** (Woodward Lectures in the Chemical Sciences, Harvard/MIT Physical Chemistry Seminar) Kurt Zilm, Yale University. Room 4-237, MIT, 5 p.m.

Thu., Oct. 16—**“Sustaining Life: How Human Health Depends on Biodiversity.”** (HMNH) Lecture and booksigning by Eric Chivian and E.O. Wilson. HMNH, 26 Oxford St., 7 p.m. Free and open to the public. (617) 495-2773, www.hmnh.harvard.edu.

Thu., Oct. 16—**“Observatory Night: Measuring the Universe.”** (CfA) Mark Reid, CfA. Phillips Auditorium, CfA, 60 Garden St., 7:30 p.m. Observing through telescopes to follow (weather permitting). (617) 495-7461, www.cfa.harvard.edu.

social sciences

Thu., Oct. 2—**“Health Care Policy in the 2008 Presidential Elections.”** (Petrie-Flom Center, HLS) Debate featuring David Cutler, health care adviser to the Obama campaign, and Tomas Philipson, health care adviser to the McCain campaign. Ropes Gray, Pound Hall, HLS, noon. Lunch provided. (617) 496-4662, rdawes@law.harvard.edu, www.law.harvard.edu/programs/petrie-flom.

Thu., Oct. 2—**“Knowing Thy Adversary: Assessments of Intentions in International Politics.”** (Belfer Center’s International Security Program) Brown bag seminar with Keren Yarhi-Milo, research fellow, ISF. Belfer Center Library, Littauer 369, HKS, 12:15 p.m. Coffee and tea provided. http://belfercenter.ksg.harvard.edu/events/3703/.

Thu., Oct. 2—**“From Weddings to War: Reflections on a Summer as a Journalist in Moscow.”** (Davis Center) Sara Rhodin, intern, New York Times Moscow Bureau. Room S354, 3rd floor, CGIS, 1730 Cambridge St., 12:30 p.m. www.daviscenter.fas.harvard.edu.

Thu., Oct. 2—**“Whither Palestine? Defining a New Political Construct for a New National Era.”** (WCFA, CMES) Husam Zomlot, visiting scholar, CMES, PLO representative to the UK, 2003-08. Bowie-Vernon Room N-262, WCFA, CGIS Knafel Building, 1737 Cambridge St., 4 p.m.

Thu., Oct. 2—**“Why Does the U.S.-Korea Alliance Exist Today? Continuity and Change in the Relationship.”** (Korea Institute) Jae-Jung Suh, Johns Hopkins University, and chaired by Carter J. Eckert, Harvard University. Room S050, CGIS South Building, 1730 Cambridge St., 4 p.m.

Thu., Oct. 2—**“The Beijing Olympics.”** (Fairbank Center) Authors John Powers, Boston Globe; Susan Brownell, University of Missouri, St. Louis; and Ross Terrill, Fairbank Center. Room S020, CGIS South, 1730 Cambridge St., 4 p.m. (617) 495-4046, gestewar@fas.harvard.edu.

Thu., Oct. 2—**“American Power: Why the Declinists Are Wrong, Again.”** (WCFA) Robert Lieber, Georgetown University. Room N262, CGIS, 1737 Cambridge St., 4 p.m.

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Thu., Oct. 2—**“Undergraduate Event on ‘Elite Education.’”** (Humanities Center) Tsai Auditorium, CGIS South Building, 1730 Cambridge St., 6 p.m. www.fas.harvard.edu/~humcentr.

Thu., Oct. 2—**“Assessment of Attention in Children: An Ecological Approach.”** (Real Colegio Complutense) Elena Pérez Hernández. Conference room, RCC, 26 Trowbridge St., 7:30 p.m. Free and open to the public. www.realcolegiocomplutense.harvard.edu.

Fri., Oct. 3—**“Learning from Catastrophe: The Public Health Consequences of Katrina for New Orleans and the Mississippi Gulf Coast.”** (HSPH Office of Diversity, HMS Office for Diversity and Community Partnership, Cambridge Health Alliance) William (Scott) Griffies, Louisiana State University and LSU Psychiatric Emergency Service, New Orleans; Roberta Avila, Mississippi Coast Interfaith Disaster Task Force; Jed Horne, author, former city editor, The Times-Picayune; Jacques Morial, Louisiana Justice Institute; Ichiro Kawachi, HSPH; and Robert Blendon, HSPH. Auditorium G-2, HSPH, 677 Huntington Ave., 3 p.m. Free and open to the public. (617) 384-5411, www.hsph.harvard.edu/diversity.

Sat., Oct. 4—**Partners In Health 15th Annual Thomas J. White Symposium. “Pushing the Boundaries: Past, Present and Future.”** (Harvard Box Office) Featuring speakers from Partners In Health partner projects around the world, including co-founders Paul Farmer and Ophelia Dahl. Sanders Theatre, 3 p.m. Free tickets (limit four per person, valid until 2:45 p.m.) Harvard Box Office (617) 496-2222.

Mon., Oct. 6—**“Asian Dynamics, China’s Rise, and U.S. Leadership.”** (Fairbank Center) Robert Sutter, Georgetown University. Room S153, CGIS South, 1730 Cambridge St., noon.

Mon., Oct. 6—**“Eurasia’s New Frontiers: Young States, Old Societies, Open Futures.”** (Davis Center) Thomas W. Simons Jr., visiting scholar, Davis Center, Harvard University, and former U.S. ambassador to Poland and Pakistan. Room S354, 3rd floor, CGIS, 1730 Cambridge St., 4:15 p.m. www.davis-center.fas.harvard.edu.

Mon., Oct. 6—**“Infanticide as Patriotism? The Prokne Statue on the Athenian Acropolis.”** (CES, Humanities Center, Classics) Luca Giuliani, rector, Wissenschaftskolleg zu Berlin. Thompson Room, Barker Center, 12 Quincy St., 6 p.m. Free and open to the public. srazor@fas.harvard.edu.

Tue., Oct. 7—**“Report from Buenos Aires.”** (DRCLAS, WCFA) Marysa Navarro, Dartmouth College and visiting scholar, DRCLAS. 1730 Cambridge St., noon. Discussion to follow. smtesor@fas.harvard.edu.

Tue., Oct. 7—**“The 1968 Soviet Invasion of Czechoslovakia 40 Years Later: Reassessing East-Bloc and Western Reactions to the Prague Spring.”** (Davis Center) Guenter Bischof, University of New Orleans; Mark Kramer, Cold War Studies Project, Harvard University; and Peter Ruggenthaler, Ludwig Boltzmann-Institut fuer Kriegsfolgen-Forschung, Vienna. Room S354, 3rd floor, CGIS, 1730 Cambridge St., 12:15 p.m. www.daviscenter.fas.harvard.edu.

Tue., Oct. 7—**“Sharia Law, Human Rights and Justice in Nigeria.”** (Committee on African Studies) Hauwa Ibrahim, Radcliffe Institute, Nigerian human rights attorney. Room S250, CGIS South, 1730 Cambridge St., 4:15 p.m. (617) 495-5265 www.fas.harvard.edu/~cafrica.

Tue., Oct. 7—**“European Leadership on Global Environmental Challenges.”** (CES, Kokkalis Program, WCFA, HUCE)

Stavros Dimas, European commissioner for the environment. Weiner Auditorium, HKS, 4:30 p.m. Free and open to the public. euseries@fas.harvard.edu.

Tue., Oct. 7—**“Brazil Studies Program Welcome Reception.”** (DRCLAS) Concourse S030 and Rock Garden, CGIS, 1730 Cambridge St., 5 p.m. Free and open to the public. msiwi@fas.harvard.edu, http://drclas.harvard.edu/brazil.

Tue., Oct. 7—**“Remix: Indigenous Identities Today.”** (Peabody Museum) Talk by Harvard student curators Tanner Amdur-Clark, Caitlin Finch, and LeRenzo Tolbert-Malcolm. Peabody Museum, 11 Divinity Ave., 5:30 p.m. Free. (617) 496-1027, www.peabody.harvard.edu. See also exhibitions.

Wed., Oct. 8—**“For Business, for Pleasure, or for Necessity? National Preference Formation in the New EU Member States.”** (CES) Tim Haughton, visiting scholar, CES. Cabot Room, CES, 27 Kirkland St., 12:15 p.m. Free and open to the public. art.goldhammer@gmail.com.

Wed., Oct. 8—**“Culture Contact and Social Change Along Ancient China’s Southwestern Frontier in the First Millennium BCE.”** (Asia Center, GSAS, Anthropology, East Asian Languages and Civilizations) Alice Yao, University of Toronto. Peabody Museum 14A, 11 Divinity Ave., 5 p.m. miller9@fas.harvard.edu.

Wed., Oct. 8—**“The Problem of Land Reform in China’s Modernization.”** (HKS China Caucus) Gan Zangchun, State Land Department. Littauer 324, HKS, 6 p.m.

Wed., Oct. 8—**“Crunch: Feeling Squeezed in Today’s Economy.”** (Cambridge Forum) Jared Bernstein, Living Standards Program, Economic Policy Institute. First Parish, 3 Church St., 7:30 p.m. Booksigning to follow. Free and open to the public.

Thu., Oct. 9—**“1968 Revisited: Brazilian Social Movement under the Military Dictatorship.”** (Brazil Studies Program, DRCLAS) *Conversa* with Victoria Langland, University of California, Davis, and Christopher Dunn, Tulane University; moderated by June Carolyn Erlick, DRCLAS. Room S-050, CGIS South, 1730 Cambridge St., 12:15 p.m.

Thu., Oct. 9—**“Dangerous Deterrents? Evaluating the Argument and Evidence that Nuclear Acquisition Emboldens Weak States.”** (Belfer Center’s International Security Program) Brown bag seminar with T. Negeen Pegahi, research fellow, ISP/Project on Managing the Atom. Belfer Center Library, Littauer 369, HKS, 12:15 p.m. Coffee and tea provided. http://belfercenter.ksg.harvard.edu/events/3711/.

Thu., Oct. 9—**“Incorporation Strategies Towards Greek Repatriate Groups in Contemporary Greece (1990-2006).”** (CES) Harris Mylonas, Harvard Academy and Georgetown University; with discussant Anna Hardman, Tufts University. Cabot Room, CES, 27 Kirkland St., 4:15 p.m. Free and open to the public. yannis.ioannides@tufts.edu.

Thu., Oct. 9—**“Religion, Race, and Gender in Presidential Politics.”** (HDS) Panelists include HDS faculty Charles Adams, Ann Braude, Anthea Butler, David Lamberth, Peter Paris, and (moderator) Ronald Thiemann. Sperry Room, Andover Hall, HDS, 5:30 p.m. Reception to follow in the Braun Room. (617) 384-8394, jmcullom@hds.harvard.edu.

Thu., Oct. 9—**“School Violence in Spain: Why It Happens and How To Stop It.”** (Real Colegio Complutense) Rosa M. Pulido Valero, Universidad Complutense de Madrid. RCC, 26 Trowbridge St., 7:30 p.m. Free and open to the public. www.realcolegiocomplutense.harvard.edu.

Fri., Oct. 10—**“Tracks of Censorship: Preserving Marks of Suppression in Japan, 1923 to 1976.”** (Reischauer Institute) Jon Abel, Pennsylvania State University. Porté Room S250, CGIS South, 1730 Cambridge St., 4 p.m. www.fas.harvard.edu/~rijs.

Tue., Oct. 14—**“Demography and the Crisis of the Welfare State.”** (CES, USJRP) Katerina Linos, Society of Fellows, Harvard University; Liv Coleman, USJRP WCFA; with discussant Peter A. Hall, Harvard University. Bowie-Vernon Conference Room K262, CGIS Knafel Building, 1737 Cambridge St., 12:30 p.m. Free and open to the public.

Tue., Oct. 14—**“The Resurgence of Imagination.”** (CSWR) Sudhir Kakar, psychoanalyst and writer; with responses from Anne Monius, HDS; and Richard Kearney, Boston College. CSWR Common Room, 42 Francis Ave., 3:30 p.m. Free and open to the public.

Wed., Oct. 15—**“After Georgia and After George W. — What’s Left of ‘The West.’ Will We See Renewed Transatlantic Relations or Further Fragmentation?”** (CES) Jörg Lau, visiting scholar, CES. Cabot Room, CES, 27 Kirkland St., 12:15 p.m. Free and open to the public. art.goldhammer@gmail.com.

Wed., Oct. 15—**“Next-Generation Implications of Open Access.”** (Radcliffe Institute) Paul Ginsparg, Radcliffe Institute and Cornell University. Radcliffe Gymnasium, 10 Garden St., 3:30 p.m. Free and open to the public. (617) 495-8212, www.radcliffe.edu.

Wed., Oct. 15—**“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.

Wed., Oct. 15—**“From Subprime to Prime Time — Implications of the U.S. Credit Crisis for Asia and China.”** (HKS China Caucus) Thomas Deng, Goldman Sachs, Asia. Littauer 382, HKS, 6 p.m.

Wed., Oct. 15—**“The Forest and the City: The Birth of Modern Planning in Mexico City, 1880-1940.”** (DRCLAS) Alfonso Valenzuela Aguilera, University of California, Berkeley. Room S-250, 2nd floor, CGIS South, 1730 Cambridge St., 6 p.m. karl@fas.harvard.edu, www.drclas.harvard.edu/events.

Wed., Oct. 15—**“The Opinion Makers: Lies My Pollster Told Me.”** (Cambridge Forum) David Moore, former senior editor, Gallup Poll. First Parish, 3 Church St., 7:30 p.m. Booksigning to follow. Free and open to the public.

Thu., Oct. 16—**“Islam in America.”** (CMES) Ambassador Akbar Ahmed, American University. Belfer Case Study Room S020, CGIS, 1730 Cambridge St., 12:30 p.m. Free and open to the public. http://cmes.hmdc.harvard.edu.

Thu., Oct. 16—**“America’s Responsible Withdrawal from Iraq.”** (WCFA) Nir Rosen, New America Foundation. Room N262, CGIS, 1737 Cambridge St., 2 p.m.

Thu., Oct. 16—**“Eliminating Disparities in Healthcare: The Role of Healthcare Professionals.”** (Radcliffe Institute) Lisa A. Cooper, Johns Hopkins Medical Institutions. Radcliffe Gymnasium, 10 Garden St., 4 p.m. Free and open to the public. (617) 495-8600, www.radcliffe.edu.

Thu., Oct. 16—**“New Ideas about Human Behavior in Economics and Medicine.”** (Health Care Policy) 8th Annual Marshall J. Seidman Lecture. Peter R. Orszag, director, Congressional Budget Office. Carl W. Walter Amphitheater, Tosteson Medical Education Center, HMS, 260 Longwood Ave., 4:30 p.m. craw@hcp.med.harvard.edu.

Thu., Oct. 16—**“Important Women in Tibetan Buddhist History and Their Lineages.”** (CSWR, Harvard Buddhist Community) Lama Tsultrim Allione, Buddhist teacher and former nun; moderated by Janet Gyatso, HDS. CSWR Common Room, 42 Francis Ave., 5:15 p.m. Free and open to the public.

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, www.arboretum.harvard.edu/visitors/tours.html.

■ **Classes and special events** Sat., Sept. 27, and Sat., Oct. 18—**“Propagating Trees and Shrubs from Cuttings and Seeds.”** Jack Alexander, Arnold Arboretum. 9 a.m.-4 p.m. Fee: \$215 general; \$180 member.

Sat., Oct. 4—**“Fall Planting and Winter Care of Trees and Shrubs.”** Jen Kettel, Arnold Arboretum. 10 a.m.-noon. Fee: \$30 general; \$25 member.

Sun., Oct. 19—**“Take a Hike!”** With Nancy Sableski, Arnold Arboretum. 1:30-3:30 p.m. Appropriate for children ages 6-12 with an accompanying adult. Bring water and a snack and wear sneakers or hiking boots. Free, no registration necessary.

Sun., Oct. 26—**“Fall Foliage Festival.”** Go leaf-peeping at the Arboretum. Featuring guided tours, autumn treats like apples and cider, music, storytelling, and more. Hunnewell Visitor Center Lawn, 125 Arborway, Jamaica Plain, noon-4 p.m. Free. (617) 524-1718.

The **Center for Astrophysics** will offer a focus group/study on astronomy for people who like astronomy and are curious about the universe. Join experts for an hour and a half of discussion on astronomical images and be a part of a new study on how NASA creates their astronomical imagery. Food, drinks, and souvenirs provided. Open to the public. http://astroart.cfa.harvard.edu.

■ Wed., Dec. 3—**“Astronomy Focus Group.”** Phillips Auditorium, Cfa, 3 p.m. Register at http://astroart.cfa.harvard.edu/focus.

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. www.atwork.harvard.edu, http://harvie.harvard.edu. E-mail ccw@harvard.edu for registration and details.

■ Wed., Nov. 5—**“Picture Perfect: Life in the Age of the Photo Op.”** Kiku Adatto, author, Harvard University. Gutman Conference Center, GSE, 12:30 p.m.; buffet lunch and networking at noon. Space is limited; register by e-mailing ccw@harvard.edu by Fri., Oct. 31, with the word “registration” in the subject line.

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@huce.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/training.

■ Fri., Oct. 3—**“Imaging Essentials.”** New Research Building 335, HMS, noon. Free and open to Harvard employees and HMS affiliates. No registration necessary.

■ Tue., Oct. 7, Tue., Nov. 4, and Thu., Dec. 11—**“Creating Figures for Publications and Presentations Using Photoshop and PowerPoint.”** Countway Library, HMS, 9 a.m.-1 p.m. Prerequisites: Basic computer skills and some familiarity with PowerPoint. Free and open to Harvard employees and HMS affiliates. Classes are limited to six students and fill up quickly; registration required at http://it.med.harvard.edu/pg.asp?pn=training_classes.

■ Wed., Oct. 22—**“Designing Reliable On-Screen Presentations.”** Countway Library 424, HMS, noon. Free and open to Harvard employees and HMS affiliates. No registration necessary.

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.hmn.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

■ **Tuna: A Love Story.** Richard Ellis, author. HMNH, 26 Oxford St., 2 p.m. Booksigning to follow. Free with admission. (617) 495-2773.

■ **Elegant Eggs & Remarkable Nests: An Artist's View of Natural History.** Rosamond Purcell, photographer. HMNH, 26 Oxford St., 6 p.m. Booksigning to follow. Free and open to the public. (617) 495-2773.

■ **Sustaining Life: How Human Health Depends on Biodiversity.** Lecture and booksigning by Eric Chivian and E.O. Wilson. HMNH, 26 Oxford St., 7 p.m. Free and open to the public. (617) 495-2773.

■ **Family Program. The Ingredients of Plant Collecting.** Melinda Peters, HMNH. HMNH, 26 Oxford St., 2 p.m. (617) 495-2773.

Harvard Neighbors offers a variety of programs and events for the Harvard community. (617) 495-4313, neighbors@harvard.edu, www.neighbors.harvard.edu.

■ **Following Your Inner Path to Joy.** Three workshop sessions by Sarah Dornin, 5:30-7 p.m. Pre-register by Sept. 30 to neighbors@harvard.edu.

■ **Wine Tasting 101.** 5:30-8 p.m. Fee: \$15 per person. Limited to 14; registration and pre-payment required.

■ **Apple Picking Trip.** Bus trip to Parlee Orchard, 10 a.m.-2 p.m. Free transportation. Reservation required by Oct. 1; e-mail neighbors@harvard.edu.

■ **Easy As Pie!** Learn how to make the perfect pie, noon-1:30 p.m. Fee: \$5. Limited to 12; registration required to neighbors@harvard.edu.

■ **Visit the Mega Maze.** 10 a.m.-3 p.m. Bus trip to Davis Farmland in Sterling, Mass. Best for children ages 6 and older. Fee: \$10 per person approximately. Registration and pre-payment required to neighbors@harvard.edu.

neighbors@harvard.edu.

■ **Cork and Fork Evening.** 5:30-8:30 p.m. Fee: \$25 per person. Limited to 12; registration and pre-payment required.

■ **Tour of the Cambridge Firehouse.** 10-11 a.m. Rain or shine. Free but reservations required at neighbors@harvard.edu.

■ **Beer Tasting Party at Harvard's Queen's Head Pub.** 5:30-7:30 p.m. RSVP requested to neighbors@harvard.edu.

■ **Happy Halloween!** 10 a.m.-noon. Dress up. Fee: \$2. neighbors@harvard.edu.

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.

■ **Fall Field Trip to World's End.** World's End, Hingham, Mass., 10:30 a.m.-12:30 p.m. Kigkeith@aol.com.

■ **NELDHA Slide Slam!** Landscape Institute, 1 p.m. \$5 general; free to NELDHA members. Kff245@aol.com.

Mather House Chamber Music offers a fun, informal way to play music with other people. Coaching is available for string instruments, woodwinds, piano, harpsichord, Baroque ensembles, and singers. Ensembles are grouped according to the level of participants and availability of instruments.

Sessions are scheduled at the mutual convenience of participants and coach. Everybody is invited to play in the concert at Mather, and there are various additional performance opportunities. Three special ensembles are offered: consorts of recorders, flutes, and viola da gamba. Fee: \$100 per semester. (617) 244-4974, lion@fas.harvard.edu, www.people.fas.harvard.edu/~lion/mat her.

Mather House Pottery Class began Tue., Sept. 30, and will meet weekly on Tuesdays, 7-9 p.m. in the Mather House Pottery Studio. The 10-session course is designed for all levels of experience, taught by Pamela Gorgone. Fee: \$65 Harvard affiliates; \$55 Mather residents. The fee includes the

Tuesday night classes, all clay and glazes, and access to the studio. (617) 495-4834.

Office for the Arts offers several extracurricular classes designed to enhance the undergraduate experience. (617) 495-8676, www.fas.harvard.edu/~ofa.

Learning from Performers
■ **A Master Class with André Previn.** André Previn, conductor, composer, and pianist. Junior Common Room, Kirkland House, 95 Dunster St., 3 p.m. Free and open to the public. Co-sponsored by the Harvard Music Society of Kirkland House and the Harvard Piano Society.

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 began 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.

■ **Solving Your Child's Homework Hassles.** Barbara Meltz, author, former Boston Globe columnist. Pre-register at barbara_wolf@hms.harvard.edu.

■ **Doggy Dos and Don'ts.** Amy Koel, dog trainer. Pre-register at barbara_wolf@hms.harvard.edu.

■ **Buying Your First Home: Tips To Assist You with This Process.** Susan Keller, Harvard

Faculty Real Estate Services. Pre-register at barbara_wolf@hms.harvard.edu.

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.

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., Tue., Thu., and Fri., 9 a.m.-5 p.m.; Wed., 10 a.m.-5 p.m. Closed Sat. and Sun. Science Center B11. (617) 495-5450, www.computers.harvard.edu.

The **Harvard College Library** offers hands-on instruction in using the HOLLIS 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

Thu., Oct. 2—**The 18th First Annual Ig Nobel Prize Ceremony.** (Harvard Box Office) The ceremony honors achievements that first make people laugh, and then make them think. The new winners will be handed their prizes by genuinely bemused Nobel laureates. Sanders Theatre, 7:30 p.m. Tickets are \$39/\$36 general; \$34/\$31 students. Harvard Box Office (617) 496-2222. www.improbable.com.

Thu., Oct. 2-Sun., Oct. 5—**The Irma Bailey Native American Arts and Crafts Show and Sale.** (Peabody Museum) A selection of Native

American-crafted silver and turquoise jewelry, baskets, ceramics, and rugs — handmade work rarely displayed in the Northeast. Featuring antique and contemporary works by Hopi, Navajo, Pueblo, and Zuni artists. Peabody Museum, 11 Divinity Ave., 9 a.m.-5 p.m. daily. Free admission. (617) 496-1027, www.peabody.harvard.edu.

Mon., Oct. 6—**A Master Class with André Previn.** (Learning from Performers, OfA, Harvard Music Society of Kirkland House, Harvard Piano Society) André Previn, conductor, composer, and pianist. Junior Common Room, Kirkland House, 95 Dunster St., 3 p.m. Free and open to the public. (617) 495-8676, www.fas.harvard.edu/~ofa.

Tue., Oct. 7—**Brazil Studies Program Welcome Reception.** (DRCLAS) Concourse S030 and Rock Garden, CGIS, 1730 Cambridge St., 5-7 p.m. Free and open to the public. msiwi@fas.harvard.edu, http://drcclas.harvard.edu/brazil.

Fri., Oct. 10-Sat., Oct. 11—**An Evening With Champions.** (Eliot House) World and Olympic figure skating champions join local skaters. Bright Hockey Center, 79 North Harvard St., 8 p.m. on Friday and 7 p.m. on Saturday. Tickets are \$32 general; \$28 Harvard affiliates; \$12 senior citizens/children 12 and under; \$8 college students. All proceeds go to the Jimmy Fund of Dana-Farber Cancer Institute. Parking available at the Harvard Business School lot. Harvard Box Office (617) 496-2222. http://www.aneveningwithchampions.org.

Sun., Oct. 12—**Oktoberfest 2008.** (Harvard Real Estate Services) A day of jazz and R&B performances. Forbes Plaza, Holyoke Center, 1350 Massachusetts Ave., noon-6 p.m., weather permitting. Noon: Hot Tamale Brass Band; 1 p.m.: Malcolm Campbell Quartet; 2 p.m.: Harvard Jazz Collective; 3 p.m.: Tomás Doncker with Danny Sadownick; and 4 p.m.: 6 Figures. Free and open to the public.

Mon., Oct. 13—**Behind the Scenes: Zooarchaeology Lab Open House.** (Peabody Museum) Using skeletons of modern animals, zooarchaeologists demonstrate what bones tell us. Bring bones from your back yard to be identified. Peabody Museum, 11 Divinity Ave., noon-4:30 p.m. Free and open to the public. (617) 495-8317, www.peabody.harvard.edu.

Thu., Oct. 16—**Cambridge READS.** (Harvard Box Office) Presentation by Julia Alvarez, author of “How the Garcia Girls Lost Their Accents,” followed by Q&A session. Sanders Theatre, 7:30 p.m. Free tickets (limit four per person, valid until 7:15 p.m.) available beginning Oct. 4. Harvard Box Office (617) 496-2222. Tickets also available at the Cambridge Public Main Library and Harvard Bookstore. www.cambridgereads.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.-

(Continued on next page)



Oct. 2

Japanese architectural historian Jinnai Hidenobu speaks on ‘Reading the Urban Landscape of Tokyo: Ecology and History’ tonight (Oct. 2) in Piper Auditorium, Gund Hall, GSD, 48 Quincy St., at 6. The event is free and open to the public. E-mail bueno@fas.harvard.edu for more information.

LEFT: Shinjuku (Tokyo), 1989, National Land Image Information (color aerial photograph), Ministry of Land, Infrastructure and Transport

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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.

Weight Watchers at Work at HDS classes are available Fridays, 10-10:45 a.m. in the CSWR conference room, 42 Francis Ave. There will be an information and registration meeting Fri., Sept. 26. (617) 495-4513.

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.
Oct. 5—The Rev. Martin B. Copenhaver, senior pastor, Wellesley Congregational Church
Oct. 12—The Rev. Jonathan C. Page, Epps Fellow in the Memorial Church

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.

Thu., Oct. 2—Evelynn M. Hammonds, Barbara Gutmann Rosenkrantz Professor of the History of Science and of African and African American Studies, Harvard University
Fri., Oct. 3—Cameron Van Patterson, Ph.D. candidate, Harvard University
Sat., Oct. 4—Andrew C. Forsyth MTS '09, seminarian in the Memorial Church

Mon., Oct. 6—Suzy M. Nelson, associate dean of residential life, Harvard College
Tue., Oct. 7—Paul Barreira, director of behavioral health and academic counseling, HUHS
Wed., Oct. 8—Benjamin Isaac Rapoport '03, MD-Ph.D. candidate, HMS and MIT

Thu., Oct. 9—Heidi Eunjip Kim '09, Harvard College
Fri., Oct. 10—Elizabeth McKeigue, research librarian and liaison to the Departments of Celtic, Germanic, and Slavic Languages and Literatures, Harvard University

Sat., Oct. 11—Edward E. Jones, Gund University Organist and Choirmaster, the Memorial Church, curator of the University organs
Mon., Oct. 13—No service
Tue., Oct. 14—Jonathan M. Roberts '09, senior choir secretary, Harvard University Choir

Wed., Oct. 15—Van Tran, Ph.D. candidate, HKS
Thu., Oct. 16—Leslie E. Eckel, Suffolk University

Special events

■ Thu., Oct. 9—“**Vocations Dinner.**” All undergraduates considering a career in ministry are invited to a dinner with the Rev. Professor Peter Gomes. The Memorial Church, 7:30 p.m. RSVP to jonathan_page@harvard.edu.

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., 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 with the Rev. Jonathan C. Page. 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.

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.

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.

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.

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.thechurchatthegate.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. (617) 384-7571, jvonwald@hds.harvard.edu
■ HDS Thursday Morning Eucharist: 8:30-9 a.m.
■ Thu., Oct. 9—“**Who Is Asking? Living Words, Attentive Silence, and the Koan of Zen ‘Prayer.’**” Steve Kanji Ruhl, Zen Buddhist minister. CSWR Common Room, 42 Francis Ave., noon. Soup provided; please bring your own beverage. (617) 384-7571, jvonwald@hds.harvard.edu.

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; palliikk@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: “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: “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
■ Sundays: 9 a.m. early service; 11 a.m. sanctuary service with organ and choir
■ Thursdays: Jazz worship service at 6 p.m.

St. Mary Orthodox Church

8 Inman St., Cambridge (617) 547-1234
http://www.stmaryorthodoxchurch.org/
■ Sunday Orthros: 8:45 a.m.
■ Sunday Divine Liturgy: 10 a.m.
■ Great Vespers: Saturdays at 5 p.m.

St. James Episcopal Church

1991 Massachusetts Ave. (2 blocks beyond Porter Square T station)
www.stjames-cambridge.org
Sunday services at 8 a.m. (Rite 1) and 10:30 a.m. (Rite 2)
A musically vibrant, eucharist-centered, welcoming, and diverse congregation.

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 mfunress@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://swedenborgchapel.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 @ Berkman**, 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/.

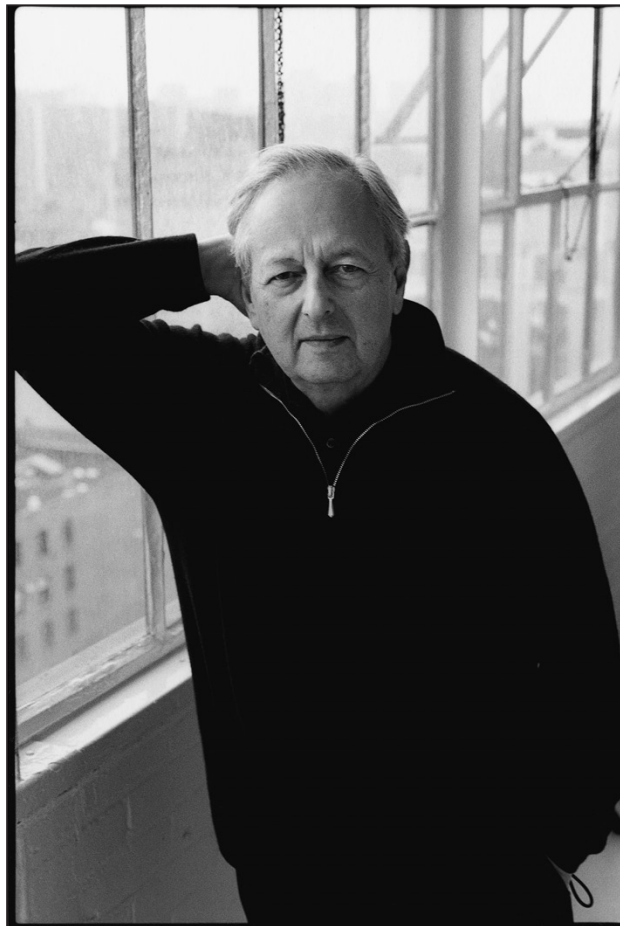
The **COACH Program** seeks Harvard college and graduate students to serve as “college coaches” in the Boston Public Schools to assist young people in applying to college and developing plans for after high school. COACH is looking for applicants interested in spending about three hours per week working 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, or 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.hgic.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.



Lillian Birnbaum/Deutsche Grammophon

various policies governing the proper use of Harvard’s name and insignias. trade-mark_program@harvard.edu, www.trade-mark.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 addiction. 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

Oct. 6

Learning from Performers, Office for the Arts, the Harvard Music Society of Kirkland House, and the Harvard Piano Society will offer a master class with conductor, composer, and pianist André Previn on Monday (Oct. 6) in the Junior Common Room, Kirkland House, 95 Dunster St., at 3 p.m. The event is free and open to the public. Call (617) 495-8676 or visit www.fas.harvard.edu/~ofa for more information.

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 spousesupport@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

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.

Cocaine Usage Study: Researchers seek healthy men ages 21-35 who have used cocaine occasionally for a two-visit research study. Subjects will be administered cocaine and either flutamide or premarin and undergo an MRI and blood sampling. \$425 compensation upon completion. Taxi is provided. (617) 855-2883, (617) 855-3293. Responses are confidential.

Brain Imaging Study: Researchers seek healthy women ages 24-64 who are non-smoking for a three-visit research study. Subjects will undergo MRIs and blood sampling. Up to \$175 compensation upon completion of the screening visit and study days. (617) 855-3293, (617) 855-2883. Responses are confidential.

Brain Imaging Study: Researchers seek healthy volunteers ages 21-35 for a six-visit study investigating how sedative-type drugs affect the brain. Participants must be willing to have an MRI and make multiple visits. Compensation up to \$625. Round-trip transportation provided. (617) 855-2359.

Depression Study: Researchers seek women ages 18-55 with depression and insomnia for medication study. Receive up to \$600. Call (617) 789-2165 or e-mail bostondepression@gmail.com and refer to “Lunesta study.”

Depression Study: Researchers seek healthy men ages 21-50 for a 12-week study that involves taking two FDA-approved antidepressant medications (Celexa and Lexapro), as well as a placebo. Each of the three medications is taken individually for two weeks. There are a total of eight visits during the course of the study, including three MRI brain scans. Compensation up to \$800. All personal information is confidential. Call (617) 789-2404 or e-mail bostondepression@gmail.com and refer to “Celexa and Lexapro study.”

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, hassett@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.

HIV and Brain Functioning Study: Researchers seek volunteers ages 18-59 who are HIV+ and taking HIV medications for a study investigating HIV and brain functioning. The study involves two daytime office visits and an MRI scan. Compensation up to \$150. Call (617) 855-2359 and mention “Project Brain.” All calls confidential.

Opportunities



Job listings posted as of October 2, 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>.

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/findajob/>.

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

Research Fellow (Postdoctoral Fellow) Req. 35174, Gr. 000

Harvard School of Public Health/Genetics & Complex Diseases
FT (9/11/2008)

Research Fellow (Postdoctoral Fellow) Req. 35277, Gr. 000

Harvard School of Public Health/Genetics & Complex Diseases
FT (9/18/2008)

Postdoctoral Fellow (Postdoctoral Fellow in Population Economics) Req. 35415, Gr. 000

Harvard School of Public Health/Global Health and Population
FT (10/2/2008)

Clinical Fellow Req. 35388, Gr. 090

Harvard Law School/Harvard Legal Aid Bureau
FT (10/2/2008)

Alumni Affairs and Development

Associate Director of Major Gifts Req. 35325, Gr. 059

JFK School of Government/External Affairs
FT (9/25/2008)

Senior Major Gifts Officer Req. 35169, Gr. 058

Graduate School of Education/Development & Alumni Relations
FT (9/11/2008)

Sr. Major Gift Officer (Senior Development Officer) Req. 35236, Gr. 058

Harvard School of Public Health/Office for Resource Development
FT (9/18/2008)

Development Associate, International Advancement Req. 35249, Gr. 056

Alumni Affairs and Development/University Development Office
FT (9/18/2008)

Assistant Dean for Alumni Affairs Req. 35312, Gr. 060

Harvard School of Public Health/Office for Resource Development
FT (9/25/2008)

Director, HGSE Annual Fund Req. 35378, Gr. 057

Graduate School of Education/Development & Alumni Relations
FT (10/2/2008)

Alumni Affairs Professional, Harvard Varsity Club Req. 35330, Gr. 055

Faculty of Arts and Sciences
FT (9/25/2008)

Athletics

Assistant Coach of Women's Tennis Req. 35243, Gr. 055

Faculty of Arts and Sciences/Athletics
PT (9/18/2008)

Assistant Coach of Men's Swimming Req. 35244, Gr. 055

Faculty of Arts and Sciences/Athletics
PT (9/18/2008)

Communications

Science Writer Req. 35245, Gr. 057

Faculty of Arts and Sciences/Center for the Environment
(9/18/2008)

Publications Manager Req. 35318, Gr. 056

Faculty of Arts and Sciences/Center for Hellenic Studies
FT, SIC, (9/25/2008)

Assistant Director/Project Manager Req. 35371, Gr. 057

Harvard Business School/Marketing and Communications
FT (10/2/2008)

Writer/Editor Req. 35285, Gr. 056

Faculty of Arts and Sciences/GSAS
FT (9/25/2008)

Dining & Hospitality Services

General Service Req. 35291, Gr. 010

Dining Services/Dunster/Mather

Union: HEREIU Local 26, FT (9/25/2008)

Unit Manager Req. 35175, Gr. 057

Dining Services/Dining Services

FT (9/11/2008)

Sales Attendant Req. 35292, Gr. 031

Dining Services/Sebastian's

Union: HEREIU Local 26, FT (9/25/2008)

Truck Driver/Storeroom Combo. Req. 35177, Gr. 018

Dining Services/Crimson Catering

Union: HEREIU Local 26, PT (9/11/2008)

Kitchenperson/Chef's Helper/Potwasher/Laundryperson Combo Req. 35293, Gr. 012

Dining Services/Adams

Union: HEREIU Local 26, FT (9/25/2008)

General Services Req. 35158, Gr. 010

Dining Services/Dunster/Mather

Union: HEREIU Local 26, PT (9/11/2008)

Grill Cook Req. 35179, Gr. 032

Dining Services/Rockefeller's Divinity

Union: HEREIU Local 26, PT (9/11/2008)

Saladperson/ Checker Req. 35357, Gr. 013

Dining Services/Hillel Dining Hall

Union: HEREIU Local 26, PT (10/2/2008)

Assistant Cook Req. 35161, Gr. 016

Dining Services/Eliot/Kirkland

Union: HEREIU Local 26, PT (9/11/2008)

Assistant Cook Req. 35178, Gr. 016

Dining Services/Crimson Catering

Union: HEREIU Local 26, FT (9/11/2008)

Assistant Cook Req. 35154, Gr. 016

Dining Services/Cabot/Pforzheimer

Union: HEREIU Local 26, PT (9/11/2008)

General Services/Checker Req. 35159, Gr. 010

Dining Services/Lowell/Winthrop

Union: HEREIU Local 26, PT (9/11/2008)

Checker Req. 35163, Gr. 011

Dining Services/Eliot/Kirkland

Union: HEREIU Local 26, FT (9/11/2008)

Facilities

Assistant Program Controls Manager Req. 35368, Gr. 057

University Administration/Allston Development Group

FT (10/2/2008)

Faculty & Student Services

Assistant Director, Career Services Req. 35411, Gr. 058

Harvard Business School/MBA Program

FT (10/2/2008)

Finance

Assistant Director for Finance and Budgets Req. 35264, Gr. 058

Faculty of Arts and Sciences/Physical Resources & Planning

FT (9/18/2008)

Sponsored Research Administrator Req. 35258, Gr. 056

Faculty of Arts and Sciences/FAS Research Administration Services

FT (9/18/2008)

Director of Finance Req. 35263, Gr. 058

Faculty of Arts and Sciences/Molecular and Cellular Biology

FT (9/18/2008)

Senior Financial Analyst, Financial Planning Req. 35389, Gr. 058

Faculty of Arts and Sciences/FAS Office of Finance

FT (10/2/2008)

Associate Director of Finance Req. 35302, Gr. 058

Harvard Divinity School

FT (9/25/2008)

Director of Budget and Financial Analysis Req. 35387, Gr. 060

Harvard Medical School/Financial Operations & Analysis

FT (10/2/2008)

Project Manager Req. 35266, Gr. 059

Faculty of Arts and Sciences/FAS Office of Finance

FT (9/18/2008)

Associate Director, Gift Funds Management, Communication and Outreach Req. 35342, Gr. 058

Alumni Affairs and Development/Recording Secretary's Office

FT, SIC, (9/25/2008)

General Administration

Director of Sustainability Req. 35280, Gr. 062

University Administration/Office of the Executive Vice President

FT, SIC, (9/18/2008)

Associate Director for Administration and Operations Req. 35273, Gr. 062

Harvard Medical School/New England Primate Research Center

FT (9/18/2008)

Director of Administration Req. 35284, Gr. 059

Harvard School of Public Health/Immunology and Infectious Diseases

FT (9/25/2008)

Assistant Dean for Centers in the Office of the Dean for Faculty Affairs Req. 35215, Gr. 060

Faculty of Arts and Sciences

FT, SIC, (9/18/2008)

Program Administrator Req. 35299, Gr. 056

Harvard School of Public Health/GHP- Program on Humanitarian Policy and Conflict Research

FT (9/25/2008)

Special Initiatives Program Manager Req. 35337, Gr. 057

Faculty of Arts and Sciences/Social Sciences Division

FT, SIC, (9/25/2008)

Administrative Manager Req. 35180, Gr. 054

Faculty of Arts and Sciences/Center for Hellenic Studies

FT, SIC, (9/11/2008)

Emergency Planning Coordinator Req. 35287, Gr. 057

University Operations Services/Operations Center

FT (9/25/2008)

Assistant Director, Fundraiser and User Support Req. 35380, Gr. 057

Alumni Affairs and Development

FT, SIC, (10/2/2008)

Administrative Director Req. 35225, Gr. 057

JFK School of Government/Dean's Office

FT (9/18/2008)

Health Care

Assistant Physician (Dermatologist) Req. 35196, Gr. 090

University Health Services/Dermatology

PT (9/11/2008)

Human Resources

Associate Dean for Human Resources Req. 35410, Gr. 063

University Administration/Office of Human Resources

FT (10/2/2008)

Director - New England Higher Education Consortium & Project Manager Req. 35234, Gr. 057

University Administration/Employment Services

FT (9/18/2008)

Information Technology

Director of the Project Management Office Req. 35259, Gr. 060

Faculty of Arts and Sciences/FAS IT

FT (9/18/2008)

Product Manager, Academic Technology Req. 35182, Gr. 058

Faculty of Arts and Sciences/FAS IT

FT (9/11/2008)

Systems Administrator Req. 35417, Gr. 057

Faculty of Arts and Sciences/FAS IT

FT (10/2/2008)

Unix Systems Administrator Req. 35278, Gr. 058

University Information Systems/Network and Server Systems

FT (9/18/2008)

Web Designer Req. 35298, Gr. 057

University Information Systems/Website Development Services

FT (9/25/2008)

Research Systems Administrator Req. 35144, Gr. 056

Harvard Medical School/BCMP

FT (9/11/2008)

Assistant Director, Data Management and Reporting Req. 35379, Gr. 057

Alumni Affairs and Development/Alumni Affairs and Development

FT, SIC, (10/2/2008)

Jr. Systems Administrator Req. 35374, Gr. 056

Faculty of Arts and Sciences/FAS IT

FT (10/2/2008)

Sr. Software Developer Req. 35416, Gr. 058

Faculty of Arts and Sciences/FAS IT

FT (10/2/2008)

Senior User Experience Designer, Educational Technology Req. 35206, Gr. 058

Harvard Business School/Information Technology Group

FT (9/18/2008)

Project Manager Req. 35381, Gr. 056

Alumni Affairs and Development/Alumni Affairs and Development

FT, SIC, (10/2/2008)

Library

Systems Librarian III Req. 35397, Gr. 057

Harvard University Library/OIS

FT (10/2/2008)

E-Resources Coordinator for the Social Sciences Req. 35344, Gr. 057

Harvard College Library/Collection Development

PT (9/25/2008)

Project Cataloger and Selection Assistant for the Islamic Heritage Project Req. 35275, Gr. 056

Harvard University Library/OCF

FT (9/18/2008)

Technical Services Librarian for the Lamont Unit of CSS Req. 35369, Gr. 058

Harvard College Library/HCL Technical Services

FT (10/2/2008)

Museum

Curatorial Associate in Vertebrate Paleontology Req. 35217, Gr. 057

New version of classic film has darker themes, sociopolitical preoccupations

Du Bois fellow makes 'Little Fugitive,' take two

Photo courtesy of Joanna Lipper



Joey, a young runaway, meets Grace, another runaway, while collecting bottles on the beach at Coney Island in a scene from the new film 'Little Fugitive' by Joanna Lipper '94 (below).

By Colleen Walsh
Harvard News Office

The wonder of Brooklyn's iconic amusement park Coney Island as seen through the eyes of a young runaway is at the heart of the 1953 classic film "Little Fugitive" by the directing team of Ray Ashley, Morris Engel, and Ruth Orkin.

What lies at the heart of Joanna Lipper's '94 recent remake is much darker.

The film's opening sequence sets the stage. Using grainy, archival footage and a child's voiceover to describe the grim scene, it depicts the fate of a Coney Island elephant deemed unsafe by park operators.

The flashback is just one of the many techniques employed by Lipper, a fellow in residence at the W.E.B. Du Bois Institute, whose "Little Fugitive," coupled with her short documentary "Inside Out: Portraits of Children," was recently released on DVD by Cinema Libre Studio.

The 1953 film is a simple story of two brothers, Lenny, 12, and Joey, 7, who must look after themselves when their mother leaves to visit their sick grandmother. After a practical joke, Joey is convinced he has killed his brother. Horrified, he flees to Coney Island.

With poignant black-and-white images and limited dialogue, the picture follows Joey's wanderings through the maze of Coney Island attractions, ending ultimately with a happy family reunion.

Heralded by famed French director Francois Truffaut for its innovative use of handheld cameras, which included a camera designed by Engel that he strapped to his body, the film received an Oscar nomination for best screenplay and won the Silver Lion award at the 1953 Venice Film Festival.

Lipper's remake is a more complex, unsettling work, one that explores the themes of child neglect, the challenges and heartbreak of children of incarcerated parents, the inadequacies of the foster care system, and sexual predators. Her characters are examined in greater detail, including the boys' mother, who is often absent or hungover, and their father (unaccounted for in the original), who is in prison.

"I looked at the original movie and after watching it there were some unanswered questions," said Lipper, who wanted in her own work to further develop the characters, especially that of the older boy, Lenny.

"This question of who [Lenny's] father was and how his father in some way disappointed him and abandoned the family, or wasn't there as a role model for Lenny, is a central question to Lenny's character."

Following its world premiere in 2006, the feature-length drama has screened in film festivals from Seattle to London and was recently shown in August at the Coney Island Museum and in September at the Jacob Burns Film Center in Pleasantville, N.Y.

Intelligent, energetic, and driven are all qualities that accurately describe Lipper, who, at 36, has two documentaries and a book about teen mothers, "Growing Up Fast," to her name.

Reflective, visually alluring, and socially aware are qualities that characterize her work. Like "Little Fugitive," Lipper's book and documentaries examine the roles that imagination, creativity, sadness, longing, and dreams play in the development of child and adolescent psyches, as well as a variety of social issues ranging from teenage pregnancy to welfare reform to domestic and child abuse.

For Lipper, directing combines her two passions: film and psychology.

"I find that directing actors or doing a documentary is very closely linked to psychology," she said. "I am interested in psychoanalysis and in memory, trauma, identity, and family, and under the umbrella of being a film director I get to engage in those different areas."

Growing up in Manhattan close to Broadway shows fostered Lipper's interest in drama and musical theater. She completed her high school's academic requirements by 11th grade and spent her senior year at the performing arts school HB Studio in Manhattan's Greenwich Village under the guidance of Viennese actor and director Herbert Berghof. There she developed her love of directing, drawn to complex and challenging behind-the-scenes work and the thrill of the creative decision-making process.

She applied early to Harvard, was accepted, and majored in literature and film. After graduation, an interest in children and psychology led to a master's degree in psychoanalytic developmental psychology from University College London and the Anna Freud Centre.

Lipper is now working on her next project, developing a film adaptation of "A Girl from Zanzibar," based on the novel of the same name by Roger King. The work tells the

A screening of the 1953 version of 'Little Fugitive' will be presented at the Brattle Theatre at 3:45 p.m. Saturday (Oct. 4), followed at 5:30 by a screening of Joanna Lipper's 'Little Fugitive.' After the screenings, filmmaker



Rose Lincoln/Harvard News Office

story of a young illegal immigrant from Zanzibar who tries to find her way in London and the United States amid scandal and intrigue.

Lipper's films are often screened in conjunction with panel discussions that address the social issues prevalent in her work. The format, said the filmmaker, allows for an open exchange, something that she hopes can be the first step to meaningful change.

It's important, she explained, "to have diverse members of a community gather to watch a film and have the opportunity afterwards to talk about the issues, the questions, and the emotions that [they] feel as a result of the film, and to explore in a group setting how these elements might actually generate new insights, raise awareness, and affect ... perspectives."

colleen_walsh@harvard.edu

Lipper will talk about her new take on the 1953 classic and the various issues explored in her work. The screening is being hosted by the Brattle Theatre and the W.E.B. Du Bois Institute in association with the Guidance Center Inc., a nonprofit provider of mental health and family support services in Cambridge and Somerville, Mass. To view a trailer of the film, go to http://joannalipper.com/video_LF.html.

Welcome new faculty

A letter from President Faust and Provost Hyman

As Harvard begins its 372nd year, we are fortunate indeed to have outstanding scholars like you join our faculty. We have no doubt that you will contribute in significant ways to the academic life of Harvard through your research, teaching, and other activities within the University.

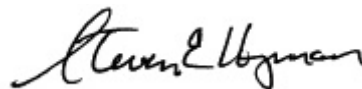
Harvard offers a wealth of resources and opportunities for you as a faculty member, whether you are looking for new research collaborations or are simply interested in exploring areas of interest in different disciplines. To assist you in your transition, the Provost's Office of Faculty Development and Diversity will be convening the first University-wide New Faculty Institute to be held on Wednesday, October 8, 2008. We hope that you will be able to attend this half-day event, as it will provide you with an overview of the many resources available to you throughout the University. In addition, you will have an opportunity to meet some of our other distinguished faculty members from throughout the University, who will share some of their insights and perspectives about teaching and building collaborations across Harvard.

We thank you for choosing to join our community and for making the commitment to pursue your scholarship here at Harvard. We welcome and look forward to meeting you soon.

With Best Wishes,



Drew Gilpin Faust
President



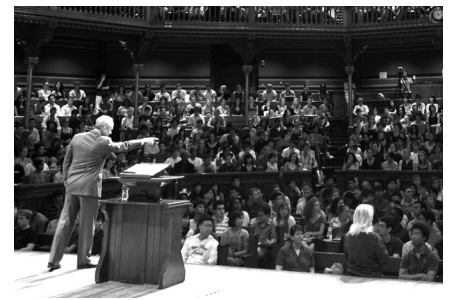
Steven E. Hyman
Provost



Staff photo Stephanie Mitchell/Harvard News Office



Staff photo Kris Snibbe/Harvard News Office



Staff photo Jason Ide/Harvard News Office

Greetings from Senior Vice Provost Singer

Welcome to the Harvard University faculty. We are delighted that you have chosen to join our scholarly community and make Harvard your academic home. Your presence here is essential to ensuring that the fundamental goals of this great University are fulfilled through your scholarship and research, your teaching and learning, and your service to the community.

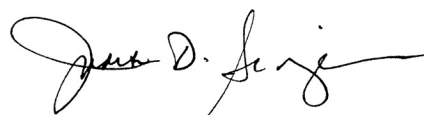
As all of us know, members of today's professoriate are being challenged by increasingly complex issues and demands. Now more than ever we must think about the need for interdisciplinary approaches to the production, dissemination and transformation of knowledge, strategies for teaching a historically unprecedented number of diverse students, and the desire for more authentic engagement with a society that daily becomes more global and technologically sophisticated.

I hope that as you embark on your work at Harvard you will seek out and take advantage of the vast array of resources and opportunities to collaborate with colleagues across the University. The Office of Faculty Development and Diversity stands ready to provide you with an introduction to these resources and opportunities and to help you navigate the system. We also welcome your ideas and suggestions for developing new resources and practices that may help you and other new faculty members as they join our fast-paced and ever exciting academic environment.

I look forward to talking with you about these issues and other aspects of academic life. And as we do so, let's always remember to keep perspective and develop strategies for balancing the many competing demands that face us not just in our academic roles but also in our personal lives.

With best wishes for a wonderful academic year,

Sincerely,



Judith D. Singer
Senior Vice Provost for Faculty Development and Diversity
James Bryant Conant Professor of Education





Introducing Harvard University's new ladder faculty

The individuals profiled in this feature represent the 2008-2009 new ladder faculty from across the University, in the Faculty of Arts and Sciences and all of our professional schools. They are a distinguished group of scholars from diverse backgrounds who represent the breadth and depth of outstanding scholarly endeavors in a wide range of fields in the arts, humanities, social sciences, and sciences, as well as within innovative interdisciplinary research areas which address vital societal needs. We as a community share their commitment and enthusiasm to pursuing academic excellence and welcome their engagement in the wide array of activities that Harvard offers throughout the year. Welcome to our new ladder faculty!

Faculty of Arts & Sciences



Edoardo Airoldi
Assistant Professor of
Statistics



George Alvarez
Assistant Professor of
Psychology



Stephen Ansolabehere
Professor of Government



Nir Avni
Instructor [convertible] in
Mathematics



Edo Berger
Assistant Professor of
Astronomy



Eric Chaney
Assistant Professor of
Economics



Philippe Cluzel
Professor of Molecular and Cel-
lular Biology and Gordon McKay
Professor of Applied Physics



Jeremy Greene
Assistant Professor of the
History of Science



Rebecca Lemov
Assistant Professor of the
History of Science



Giuliana Minghelli
Associate Professor of
Romance Languages and
Literatures



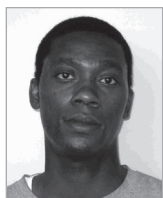
Charles Nunn
Associate Professor



Ryan Owens
Assistant Professor of
Government



Julie Peters
Professor of English and of
Comparative Literature



Matthew Platt
Assistant Professor of
Government



Sharad Ramanathan
Assistant Professor of
Molecular and Cellular
Biology



James Robson
Associate Professor



Tanya Smith
Assistant Professor of
Anthropology



Arthur Spirling
Assistant Professor of
Government



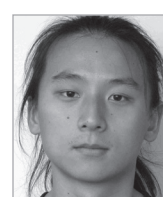
Joanne Van der Woude
Assistant Professor of English
and American Literature and
Language and of History and
Literature



Yaoda Xu
Assistant Professor of
Psychology



Jun Yin
Instructor [convertible] in
Mathematics



Xi Yin
Assistant Professor of
Physics

School of Engineering and Applied Sciences



Yiling Chen
Assistant Professor of
Computer Science



Daniel Needleman
Assistant Professor of
Applied Physics



Divinity School



Charles Stang
Assistant Professor of Early
Christian Thought



D. Andrew Teeter
Assistant Professor of Hebrew
Bible/Old Testament

Graduate School of Design



Felipe Correa
Assistant Professor of
Urban Design



Erika Naginsk
Associate Professor of
Architectural History



Christoph Reinhart
Associate Professor of
Architectural Technology



School of Dental Medicine



Roland Baron
Professor

Medical School



Angela DePace
Assistant Professor



Ross Lazarus
Associate Professor of
Ambulatory Care and Prevention



Stephen Liberles
Assistant Professor



Michael McWilliams
Assistant Professor of Health Care
Policy and Medicine

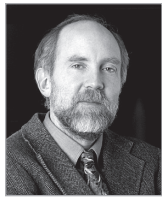


Sean Megason
Assistant Professor



Samara Reck-Peterson
Assistant Professor

Kennedy School
of Government



Matthew Bunn
Associate Professor of
Public Policy



Rema Hanna
Assistant Professor



Tare Masoud
Assistant Professor



Moshik Temkin
Assistant Professor

Business School



Roy Chua
Assistant Professor



Amy Cuddy
Assistant Professor



Alnoor Ebrahim
Associate Professor



Heidi Gardner
Assistant Professor



Ranjay Gulati
Professor



Elisabeth Koll
Associate Professor



Jason Riis
Assistant Professor of
Business Administration



Suraj Srinivasan
Associate Professor



Eric Van den Steen
Assistant Professor of
Business Administration



Ray Weaver
Assistant Professor



Matthew Weinzierl
Assistant Professor

Law School



Anne Alstott
Manley Hudson Professor
of Law



I. Glenn Cohen
Assistant Professor of Law



Michael Klarman
Kirkland & Ellis Professor
of Law



Benjamin Roin
Hieken Assistant Professor
of Law



Benjamin Sachs
Assistant Professor of Law



Cass Sunstein
Felix Frankfurter Professor
of Law



Jonathan Zittrain
Professor of Law

Graduate
School of
Education



Stephanie Jones
Assistant Professor of
Education



Jal Mehta
Assistant Professor of
Education



Paola Uccelli
Assistant Professor of
Education



School of
Public Health



Philip Demokritou
Assistant Professor of
Aerosol Physics



Günther Fink
Assistant Professor of
International Health
Economics



Maria Glymour
Assistant Professor
of Society, Human
Development, and Health



Tiffany Horng
Assistant Professor of
Genetics and Complex
Diseases



Chensheng Lu
Mark and Catherine
Winkler Assistant Professor of
Environmental Exposure Biology



Alkes Price
Assistant Professor of
Statistical Genetics



Eric Tchetgen
Assistant Professor of
Epidemiology

About the Office of Faculty Development and Diversity

The Office of Faculty Development and Diversity (FD&D) serves as Harvard's central faculty affairs office. Working closely with colleagues across the University, it oversees and guides institutional policies and transformation in all areas of faculty affairs, providing intellectual leadership and coordination across the Schools with the twin goals of increasing accountability and fostering measurable progress in important domains.

Central to its mission is the systematic collection, analysis, and dissemination of data on faculty appointments and the development, implementation, and evaluation of University-wide programs designed to improve faculty life, especially for junior faculty and for women and members of underrepresented racial and ethnic groups at all ranks. Working closely with the President and Provost, the Senior Vice Provost for FD&D serves as a key adviser in the ad hoc tenure process, chairs the Provost's Review Committee on Faculty Appointments, and oversees the administration of funds designated to facilitate the appointment of outstanding scholars who increase the faculty's diversity.

To learn more about the Office of Faculty Development & Diversity please visit us on our website, <http://www.faculty.harvard.edu>

Working closely with both the Schools and the President and Provost, the FD&D purview includes:

- **Initial faculty appointments, from search authorization to accepted offer.** Areas of focus include policies, ongoing monitoring of processes, review of prospective appointments, and feedback to ensure both excellence and increasing diversity.
- **The quality of faculty members' experiences at the University, with a particular emphasis on junior faculty and women and underrepresented minorities at all ranks.** Areas of focus include cross-university convening, junior faculty mentoring and development, support for teaching, work/family balance, and institutional climate.
- **Faculty review, retention, and promotion.** Areas of focus include policies, ongoing monitoring of processes, review of prospective promotions, and feedback to ensure both excellence and increasing diversity.
- **Support for pipeline programs.** Because tomorrow's faculty are today's students, the FD&D office also supports a variety of pipeline programs for undergraduates, graduate students, and postdoctoral fellows—with the goal of increasing the pool of women and underrepresented minorities who can become the faculty of the future.

Funding opportunities from FD&D

In September 2006, the Office of Faculty Development and Diversity launched two pilot programs intended to provide financial support to scholars who have child care or adult dependent care obligations, in order to give those scholars the support and flexibility necessary to fulfill the potential of their academic careers while also meeting the time demands of their families.

These grants are primarily intended to assist tenure-track faculty, but limited funds are available on a competitive basis for benefits-eligible postdoctoral fellows. Grants may also be used in conjunction with existing benefits offered through Parents in a Pinch and Bright Horizons. Both have services in many American cities and abroad.

Dependent Care Fund

The Dependent Care Fund (DCF) for short-term professional travel is intended to provide financial assistance to scholars who would like to travel for a professional event that will advance their academic careers, and who also have child care or adult dependent care obligations. DCF grants are awarded to defray the incremental costs due to added care-giving needs incurred as a result of traveling for career purposes. Such costs may include those associated with transporting a dependent and/or a caregiver to a conference location or research site, extra dependent care at home while the recipient is traveling, or on-site care at a meeting.

There are three remaining funding rounds for academic year 2009. The application deadlines are:

December 5, 2008

March 6, 2009

June 5, 2009

To apply, please visit www.faculty.harvard.edu/05/0541.html

Research Enabling Grants

The Research Enabling Grants program (REG) is a pilot program intended to provide scholars with financial support to enable research that would otherwise suffer due to significant child care or adult dependent care obligations. REG provides funding for tenure-track faculty and benefits-eligible postdoctoral fellows who are primary caregivers.*

There are two funding rounds for academic year 2009. The application deadlines are:

October 3, 2008

March 6, 2009

To apply, please visit www.faculty.harvard.edu/05/0542.html

*Please note that among HMS faculty and postdoctoral fellows, only those based primarily in the Quad's basic and social science departments are eligible. Faculty and postdocs based in the HMS-affiliated hospitals and research centers are not eligible.