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## Evolution explored from all angles

Class of '58 members bring exhibit to life; faculty fieldwork fulfills museum's mission

By Alvin Powell  
Harvard News Office

From humanity's close relationship to chimpanzees to the missing link between land and sea creatures, the Harvard Museum of Natural History (HMNH) has capped off a year celebrating Darwin and "On the Origin of Species" with a new exhibit that puts evolution front and center.



Called simply, "Evolution," the exhibit, which opened in April, looks at evolution from a variety of angles, from tree-of-life relationships between creatures, to convergence that causes distantly related species to develop similar traits, to anatomical, fossil, and genetic evidence that evolution un-

derlies life around us.

As it does so, the exhibit takes pains to highlight the role of Harvard faculty in important discoveries in the field, fulfilling the museum's mission to be the public face of the collections and research that goes on beyond its galleries. Among the faculty whose work is mentioned in the exhibit is Agassiz exhibit Professor of Zoology Farish Jenkins' discovery of the missing link between fishes and terrestrial vertebrates. Called *Tiktaalik roseae*, the fossil was discovered in 2004 by Jenkins and colleagues from the University of Chicago and the Academy of Natural Sciences in Philadelphia, filling a blank in the fossil record. A model of Tiktaalik, gleaming as if still wet and peering out of a shallow, prehistoric stream or pond, is the first thing visitors see when they enter.

Also mentioned is the evolution of anolis lizards on Caribbean islands, research conducted by Lehner Professor (See *Evolution*, page 28)



Photos Stephanie Mitchell/Harvard News Office

To give just a hint of the profusion of species, the exhibit includes a Beetle Trophic Pyramid (detail above) in which every specimen represents approximately 1,000 species.

## Mendillo: Guiding Harvard's endowment

Call it fate. Just as the world's financial markets started tumbling, a woman with unique understanding of the Harvard endowment took over the helm of the Harvard Management Company (HMC). Jane Mendillo came to the endowment from Wellesley College, where she restructured that school's portfolio to strengthen investment results over the long term. Before that, she spent 15 years at HMC, handling everything from domestic equities to alternative assets and developing an appreciation for the team at HMC, which she says provides "important insight and flexibility" to the management of Harvard's assets. Mendillo spoke with the Gazette about guiding the University's portfolio through challenging economic times.

An interview  
with Jane  
Mendillo,  
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Stephanie Mitchell/Harvard News Office

## Special notice regarding Commencement Exercises

### Morning Exercises

To accommodate the increasing number of those wishing to attend Harvard's Commencement Exercises, the following guidelines are proposed to facilitate admission into Tercentenary Theatre on Commencement Morning (June 4):

Degree candidates will receive a limited number of tickets to Commencement. Parents and guests of degree candidates must have tickets, which they will be required to show at the gates in order to enter Tercentenary Theatre. Seating capacity is limited,

however there is standing room on the Widener steps and at the rear and sides of the theater for viewing the exercises.

**Note:** A ticket allows admission into Tercentenary Theatre, but does not guarantee a seat. The sale of Commencement tickets is prohibited.

Alumni/ae attending their major reunions (25th, 35th, 50th) will receive tickets at their reunions. Alumni/ae in classes beyond the 50th may obtain tickets from the Classes and Reunions Office, 124 Mt. Auburn St.,

sixth floor, Cambridge, MA 02138.

For alumni/ae from nonmajor reunion years and their spouses, there is televised viewing of the Morning Exercises in the Science Center, and at designated locations in most of the undergraduate Houses and graduate and professional Schools. These locations provide ample seating, and tickets are not required.

A very limited supply of tickets will be made available to all other alumni/ae on a first-come, first-served basis through the Harvard Alumni Association, 124 Mt. Auburn St., sixth floor, Cambridge, MA 02138.

### Afternoon Exercises

The Annual Business Meeting of the Harvard Alumni Association convenes in Tercentenary Theatre on Commencement afternoon. All alumni and alumnae, faculty, students, parents, and guests are invited to attend and hear Harvard's president and the Commencement speaker deliver their addresses. Tickets for the afternoon ceremony will be available through the Harvard Alumni Association, 124 Mt. Auburn St., sixth floor, Cambridge, MA 02138.

— Jacqueline A. O'Neill  
University Marshal

## This month in Harvard history

**May 13, 1958** — On the steps of Widener Library, the Harvard Glee Club and the Radcliffe Choral Society perform choruses from Bach's B-minor Mass. Although the groups have performed together for decades, the occasion marks the Choral Society's first participation in a Glee Club outdoor concert.

**May 19, 1959** — To mark the 50th anniversary of A. Lawrence Lowell's election to the Harvard presidency, the Harvard Corporation renames the New Lecture Hall (1902), henceforth to be known as A. Lawrence Lowell Hall.

**June 19, 1725** — The Harvard Corporation elects Benjamin Wadsworth, Class of 1690, as Harvard's eighth President.

**June 11, 1776** — The Provincial Congress grants the College permission to reoccupy its buildings, and Harvard prepares to return from Concord, where it has operated since October 1775.

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

## H1N1 influenza advice for Commencement week visitors

While at Harvard, should you experience any symptoms consistent with H1N1 flu, you should contact Harvard University Health Services (HUHS).

These symptoms include fever (greater than 100 degrees F or 37.8 degrees C) and any of the following: sore throat, cough, stuffy nose, chills, headache and body aches, or fatigue. Some have also reported diarrhea and vomiting associated with H1N1 flu.

HUHS is available 24 hours a day and is located at 75 Mt. Auburn St. The HUHS daytime phone numbers are (617) 495-2001 and (617) 495-8414. For evenings, nights, and weekends, the number is (617) 495-5711.

If you have symptoms of H1N1 flu, it is important that you see a doctor to determine if you need medication and to determine whether you should isolate yourself to avoid infecting others. If you are diagnosed with H1N1 flu, you should avoid close contact with others. Increased fluids, rest, and Tylenol are usually suggested. Some antiviral medicines may be prescribed.

If you are ill and unexpectedly feeling worse (such as having trouble breathing, having chest pain, feeling faint, or dehydrated), call 911 or contact HUHS immediately.

## Movin' on up



Kris Snibbe/Harvard News Office

Moving trucks, including the fanciful, futuristic one above, are proliferating around the Yard these days.

## POLICE REPORTS

Following are some of the incidents reported to the Harvard University Police Department (HUPD) for the week ending May 25. The official log is located at 1033 Massachusetts Ave., sixth floor, and is available online at [www.hupd.harvard.edu/](http://www.hupd.harvard.edu/).

**May 21:** At Wigglesworth Hall, an officer was dispatched to take a report of a stolen pushcart.

**May 22:** Officers were dispatched to Kirkland House, after a report stated that an individual broke a window while having a verbal disagreement with another individual. The individual refused any medical assistance and University Operations Services was notified to clean up the glass. At Stoughton Hall, officers were dispatched to a report of an individual knocking on windows in the area. Officers located the individual, conducted a field interview, checked for warrants with negative results, and sent the individual on their way with a trespass warning for all Harvard University property. A camera was stolen at Dillon Field House. Officers were dispatched to Hurlbut Hall to take a report of a theft. The individual was gone upon arrival.

**May 23:** A MacBook laptop was stolen at Dane Hall. Officers were dispatched to Peabody Terrace to a report of two suspicious individuals drinking in the building. Officers located the individuals, conducted a field interview, and checked the individuals for warrants with negative results. Officers found that one of the individuals had prior trespass warnings, and both individuals were placed under arrest and charged with breaking and entering.

**May 24:** At Eliot House, officers were dispatched to a report of a suspicious individual who entered the building. Officers located the individual, conducted a field interview, checked for warrants with negative results, issued a trespass warning for all Harvard University property, and sent the individual on their way.

**May 25:** While on detail, an officer observed a suspicious individual in a vehicle. Officers conducted a field interview with the individual, who was checked for warrants with negative results and issued a trespass warning for all Harvard University property and sent on their way. A camera and MacBook laptop were stolen from Holworthy Hall. At 39 Brattle St., officers observed an individual known to have a warrant. The Cambridge Police Department arrived on scene and the individual was placed under arrest.

**Since May 21,** officers have observed several individuals jumping off the Weeks Footbridge into the Charles River. Officers ensured that all individuals were safe and informed the parties of the dangers of such actions.



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# Leadership Initiative Fellow Bolden nominated to head NASA

By Alvin Powell  
Harvard News Office

Retired Marine Maj. Gen. and former astronaut Charles Bolden was nominated to be the head of NASA Saturday (May 23), interrupting his stay at Harvard as an Advanced Leadership Fellow.

Bolden was halfway through the calendar-year fellowship with the Harvard Advanced Leadership Initiative, a new interfaculty program. The fellowships are aimed at experienced leaders with 20- to 25-year track records of accomplishment who are interested in devoting future efforts to significant public service or international problems.

While at Harvard, the fellows audit classes, mentor students, attend a weekly seminar and intensive workshops with experts, and

travel to Brazil and Louisiana before undertaking independent research. Bolden, who arrived in January, is interested in research on using education to help disadvantaged children and on improving the lives of those stricken with sickle cell anemia.

Advanced Leadership Initiative Chair and Director Rosabeth Moss Kanter, the Arbutuckle Professor of Business Administration, said initiative faculty and fellows are proud that Bolden was selected to continue his already considerable service to his country. Kanter, who has spent time with Bolden during his fellowship, described him as “thoughtful, warm, and strong.”

“He’s clearly very accomplished, but also humble,” Kanter said. “He’s motivated to help people who are disadvantaged.”

Bolden, who retired from the U.S. Marine Corps as a major general in 2004, was born

in 1946. He graduated from the U.S. Naval Academy in 1968 and flew combat missions in Vietnam, Laos, and Cambodia in 1972 and 1973. He became a test pilot in 1979 and has logged more than 6,000 hours of flying time.

Bolden became an astronaut in 1981. He flew aboard the space shuttle four times, including the 1990 mission that launched the Hubble space telescope and the 1994 mission that was the first U.S./Russian joint shuttle mission, which had a cosmonaut as a member of the crew. Bolden commanded that mission as well as his last, also in 1994.



Photo by Eliseeva Evgenia

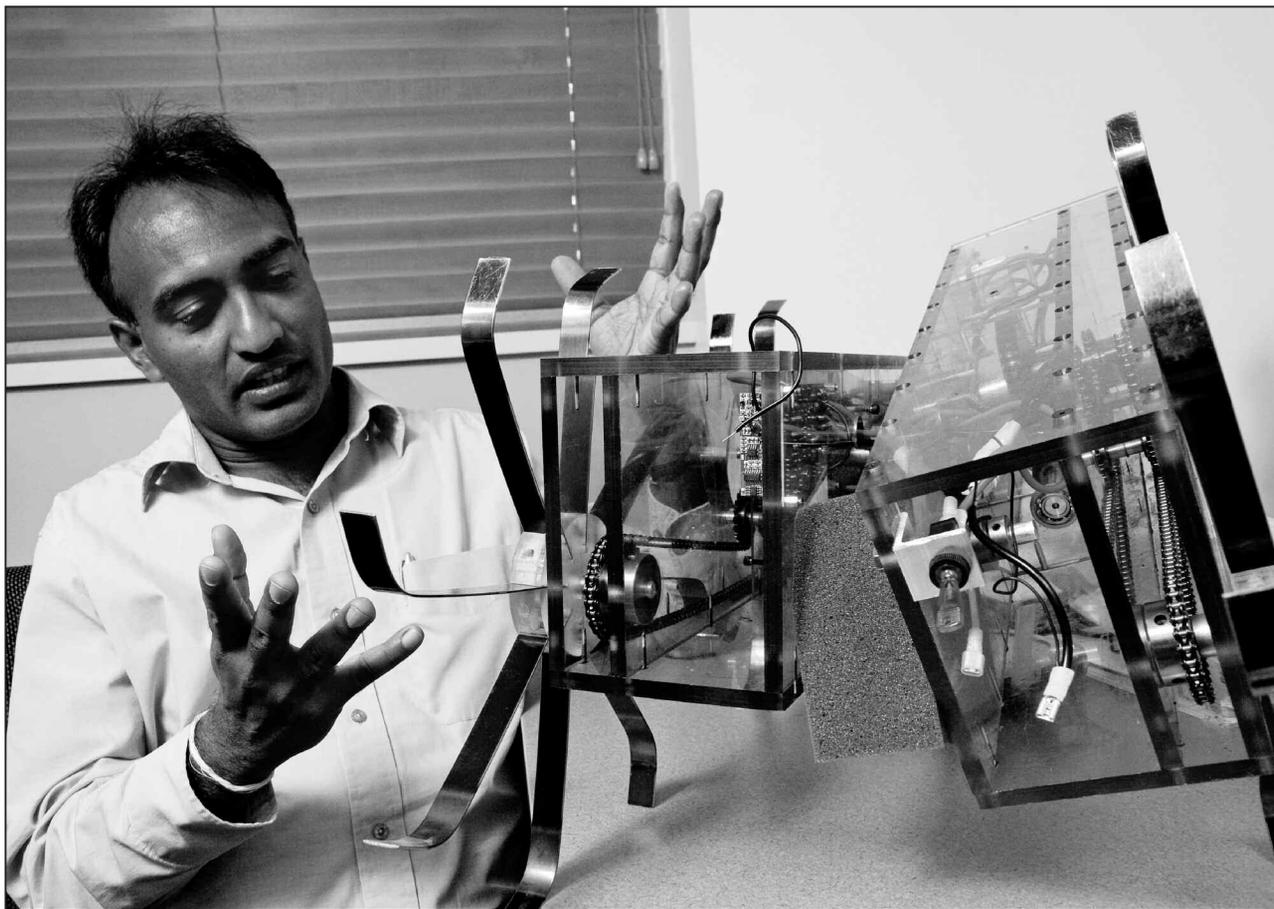
Bolden

President Barack Obama announced his intent to nominate Bolden as NASA administrator and Lori Garver, president of Capital Space LLC and former NASA official, as NASA deputy administrator on May 23.

“These talented individuals will help put NASA on course to boldly push the boundaries of science, aeronautics, and exploration in the 21st century and ensure the long-term vibrancy of America’s space program” Obama said in a statement.

NASA is dealing with several challenges as Bolden takes the reins. The agency faces questions about the future of the International Space Station and is in the midst of a transition from the space shuttle to the Orion program, which aims to replace the shuttle as the major vehicle to take astronauts into space.

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Jon Chase/Harvard News Office

Radcliffe Fellow Thrishantha Nanayakkara talks about a mine-detecting robot built by his advisee Matthew Valente '09.

## Scholar makes robots that detect land mines

By Corydon Ireland  
Harvard News Office

On Oct. 10, 2005 — he remembers the date exactly — Thrishantha Nanayakkara was driving down a country road, headed for a science workshop at Jaffna Central College, a high school in the far north of Sri Lanka. The event was designed to distract potential child soldiers from the allure of war.

His cell phone rang. It was a government official, with a tip-off. “Turn back,” the caller said, in so many words, **research** “or you will be killed.”

Nanayakkara, an artificial intelligence expert, said the phone call saved his life. Later that day, the school principal at Jaffna was shot to death.

The phone call was also the last straw for Thrish (as he likes to be called) — the last of many threats from Tamil rebels. Within days, his wife and two children moved from their home, and moved three times again in 2006.

That year, he said, “was horrible” — months of fear, hiding, and furtive living as Thrish scrambled for a job overseas.

In 2007, after a semester at the University of Texas, San Antonio, Thrish and his family slipped back into Sri Lanka for visas. He resigned his post as commissioner

of the Sri Lanka Inventors Commission, took a sabbatical from teaching at the University of Moratuwa, and by July 1 — gratefully — was a visiting scholar at Harvard’s School of Engineering and Applied Sciences.

Just four years earlier, lured by the hope of permanent peace, Thrish had moved back to Sri Lanka after earning a doctoral degree in Japan and doing postdoctoral work in the United States. In 2003, Sri Lanka was enjoying a cease-fire in the two-decade war between the Tamil Tigers and government forces.

In December 2004, drama visited the Indian Ocean nation in a killer wave: the tsunami that killed 225,000 people in 11 countries, including tens of thousands in coastal Sri Lanka. Thrish and hundreds of other scholars volunteered for relief work, bagging bodies, distributing food, and absorbing a nation’s collective shock.

In 2005, came another killer wave: renewed fighting by Tamil rebels. They targeted scholars or politicians who addressed “burning problems,” said Thrish. “Whenever someone proposes a concrete solution, they kill them.”

The fateful cell phone call came, in part, because Thrish was confronting one of those burning problems.

He and a team of researchers were at work on an animal-robot team for hunting land mines. Sri Lanka is one of 50 countries affected worldwide by a legacy of an-

tipersonnel mines. As many as 3 million lie buried in the island’s rich farmland or in forests nearby.

Thrish had already correctly mapped a test mine field outside a Sri Lankan army base, using a robotic device loosely strapped to a mongoose. In the space of one morning, the little mammal — light, agile, and equipped with an acute sense of smell — had sniffed out every buried mine.

But the Tamil guerillas were targeting ideals as well as ideas, said Thrish. Among those they killed was a Sri Lankan legal scholar and a foreign minister, he said. “Their ideals were different. That was their only criminal act.”

In the fall of 2007, three months after arriving at Harvard, Thrish became one of the scientists and writers supported by the Scholars at Risk program, administered by the Harvard University Committee on Human Rights Studies.

A gifted researcher, he continued work on landmine-hunting robots by starting work with experts at

(See **Robots**, next page)

The Scholars at Risk program at Harvard started in 2002, when it sponsored an Ethiopian geographer imprisoned for his work. (He showed that a certain famine had political, not natural, causes.) Since then, the program has found temporary academic sanctuary for 26 scholars who face harassment, imprisonment — or worse — in their native countries. Many choose to remain anonymous. In 2009-10 the program will host four scholars — from Eritrea, Iran, Iraq, and Pakistan. The 2008-09 class, including Thrishantha Nanayakkara, numbered six — from Iran, Iraq, Sri Lanka, Syria, and Uzbekistan. Organizers have awarded Harvard fellowships to novelists, anthropologists, composers, physicists, historians, human rights advocates, and scholars of law, government, and literature.

The Harvard program is affiliated with the Scholars at Risk Network, an international consortium hosted by New York University. For more information, visit <http://scholarsatrisk.nyu.edu>.

# Robots

(Continued from previous page)

the Massachusetts Institute of Technology (MIT).

A year later, Thrish was named a 2008-09 Radcliffe Fellow. He finished two books: a novel inspired by his tsunami experience and a college textbook on machine intelligence systems.

But in two years at Harvard, the focus of this slight, modest scientist has been an investigation of how animals process odors, and exactly how they walk.

Knowing more about these fundamental mammalian processes, said Thrish, will usher in a new generation of robots — self-learning, nimble, and equipped with sensitive (though artificial) noses.

In looking for land mines, such robots even in their present form reduce risk to humans and protect the environment. Once precisely located, the mines can be dug up without removing layers of fertile topsoil or virgin trees.

Thrish's working model — a robot the size of a serving platter — has eight legs, one motor, springlike joints, and low clearance (6 inches). It's small enough to squeeze under barbed-wire fences and light enough to not set off a land mine.

The mongoose is light too — less than 10 pounds. It's a slender, intelligent mammal with the best developed sense of smell in nature, after the elephant and the pig. A third of its brain function is given over to processing odor signals.

The mongoose also has excellent locomotive skills in a forest environment, and can be trained to detect buried explosives quickly, said Thrish. "100 percent detection takes just three weeks."

At Harvard, Thrish worked with molecular biologist Naoshige Uchida on rodent olfaction. He also worked with Robert Howe, Harvard's Gordon McKay Professor of Engineering, and assistant professor of computer science Radhika Nagpal.

They supervised Matthew Valente '09, who used Thrish's improved understanding of legged locomotion in rough terrain to build a field model robot that was tested in mud, brush, and sand.

At MIT, Thrish worked with Russ Tedrake's Robot Locomotion Group to study the walking patterns and to understand what causes uncertainty in leg locomotion, and how animals cope with it.

A major barrier in robot research is this uncertainty. "Most robots," said Thrish, "get stuck or fall down in uncertain environments." With a laugh, he called this emerging field of machine motion "careful walking."

Thrish no longer works on robots coupled with rodents, but he still studies odor-guided behavior and legged robot locomotion.

But the mongoose and its ilk will have a continuing role, said Thrish. They "teach" self-learning robots how to move through cluttered terrain, and continue to provide scientists with models for man-made odor sensors.

In April, Thrish helped organize a two-day conference on humanitarian de-mining — the first ever at Harvard and MIT. It included experts in artificial noses, as well as in field robotics, odor-guided behavior, seismic sensing, and humanitarian action.

In June, Thrish and his family will depart for a new life in the United Kingdom, where, at King's College, University of London, he'll continue research on legged locomotion for robots, deformable robotic bodies, and primate bipedal locomotion.

At Harvard, Thrish burrowed into his science, but he also broadened his perspective on the land mine detection problem, connecting up with experts in political science, philanthropy, humanitarian aid, and other humanistic disciplines.

"The engineering we do," he said, "cannot be disassociated from the humanities, from the environment, or from politics."



File Kris Snibbe/Harvard News Office

**Daniel Lieberman, professor of human evolutionary biology, has been part of the effort to launch the new department over the past five years.**

## Biology department evolves at FAS

*FAS creates a new dedicated Department of Human Evolutionary Biology*

By Steve Bradt

*FAS Communications*

Earlier this month, the Faculty of Arts and Sciences (FAS) made official what scientists worldwide have known for years: Harvard is a hotbed of research and teaching in the field of human evolutionary biology — the study of why we're the way we are.

"As the first university to create a graduate program in what was then called 'physical anthropology,' Harvard has long been a leader in the study of human evolution," says Jeremy Bloxham, dean of science in the FAS. "Through its use of techniques from biochemistry, engineering, and genetics, the modern field of human evolutionary biology has become increasingly aligned with the sciences. It seems only natural that we should foster our tremendous strength in this area by creating a dedicated Department of Human Evolutionary Biology."

With its May 11 vote to establish this department, the FAS staked out a formal presence in a field that dates back to Darwin's publication of "On the Origin of Species" 150 years ago but has been reinvigorated in recent decades by the application of powerful new scientific approaches to the study of our collective origins.

"Why do we cook our food? Why are we able to run long distances? Why are we so susceptible to diabetes?" asks Daniel Lieberman, professor of human evolutionary biology, who has been part of the effort to launch the new department over the past five years. "Nothing in biology makes sense outside of evolution. You can't hope to understand species or their traits without first knowing why they're there."

The research expertise of the nine faculty associated with the new Department of Human Evolutionary Biology touches on many of the most pressing social problems of our time: infectious disease, obesity, overpopulation, and aging, to name but a few.

"We're watching the intersection of evolution and infectious disease in real time with the outbreak of H1N1," Lieberman says. "This is a perfect storm of population density, human proximity to animals, microbial biology, and the evolution of infectious disease."

### New site for the Department of Human Evolutionary Biology,

[www.heb.fas.harvard.edu](http://www.heb.fas.harvard.edu)

It's clear, Lieberman adds, that a holistic view — such as that embraced by his colleagues — is key to addressing problems of this complexity. And, he says, with its insights into what makes us *us*, human evolutionary biology can help address the underlying causes of major global problems, rather than just the symptoms.

"How humans came to populate the globe left an imprint on our genomes collectively," says Maryellen Ruvolo, professor of human evolutionary biology. "The big questions that still remain are first, which genes have been molded by natural selection to make us different from our common ancestor with chimpanzees, and second, which genes have been selected for, more recently, in human evolution that are adaptations to new, diverse environments that humans have colonized."

The field of human evolutionary biology is itself evolving fast, adds Richard Wrangham, Ruth Moore Professor of Biological Anthropology, with advances in genetics, genomics, and neuroscience playing a particularly important role.

"The great thing about this area is that we can pull together advances from many different disciplines," Wrangham says, "offering an integrated view of the effects of biological and cultural influences."

Small by Harvard standards in terms of faculty, the Department of Human Evolutionary Biology is large by the standards of its field, which still counts but a few full-fledged academic departments. The Max Planck Institute in Leipzig, Germany, is an international leader in human evolu-

tionary biology; on this side of the Atlantic, similar departments exist at Duke University and in Stony Brook University's medical school.

Students have responded favorably to Harvard's offerings in the area: The undergraduate concentration in human evolutionary biology, launched in 2006, is already home to some 150 concentrators — among the largest cohorts in the College.

"Human evolutionary biology attracts students from a wide range of interests, from philosophy to pre-meds — anyone wanting to understand where we come from, what we are, and where we are going," Wrangham says.

The new Department of Human Evolutionary Biology evolved from the biological anthropology wing of the Department of Anthropology, one of three distinct divisions in existence since 1972.

"Anthropology at Harvard has a long and distinguished history, but the intellectual paradigms of the field have undergone rapid change in the past generation," says Ted Bestor, professor of anthropology and chair of the Department of Anthropology, adding that modern human evolutionary biology differs tremendously from physical anthropology as practiced even 15 or 20 years ago.

"The new Department of Human Evolutionary Biology and the archaeologists and social anthropologists in the Department of Anthropology will continue to share — and collaborate on — their common interests in understanding human beings across cultures, across historical and prehistorical time, and across the much greater spans of evolutionary development."

The new department, Lieberman says, is Harvard's affirmation of evolutionary approaches to the question: "Why are we the way we are?"

"Evolution matters profoundly," he says. "We need to understand our origins before we can possibly hope to address these urgent problems facing humanity."

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# Four faculty join FAS's teaching elite

*Named Harvard College Professors in five-year appointment*

## Ann Blair

Ann Blair receives the honor of being named Harvard College Professor as she celebrates 25 years since she was a student at the College.

"I am a big fan of Harvard undergraduates! I was one myself — this year is my 25th reunion," says Blair. "The students today seem more amazingly diverse and involved in more different activities than they were 25 years ago, so they're even more interesting to get to know."

Blair teaches courses on early modern European history, intellectual history, and the history of the book.

"As a historian with a focus on cultural and intellectual history I emphasize reading texts in historical context," says Blair. "In most of my courses I ask students to focus on primary sources and to attend to the different mental categories and historical circumstances from which past thinkers approached the questions they thought were important. Sometimes those questions are still with us today. Studying the assumptions taken for granted in the past can help us be aware of how our own historical context shapes our thinking."

Blair says that the collaborative nature of teaching at Harvard is particularly rewarding.

"I'm surrounded by wonderful colleagues and staff who can help with advice and extra support as needed," says Blair. "When I work with a team of teaching fellows, I find we all learn from each other about the material and the best ways to teach it."

She explains that she loves teaching, and especially teaching at Harvard.

"I feel it's a great privilege to be here," says Blair.

Four professors in the Faculty of Arts and Sciences have been named Harvard College Professors in recognition of their contributions to undergraduate teaching, advising, and mentoring.

The new Harvard College Professors are Ann Blair, Henry Charles Lea Professor of History; Janet Browne, Aramont Professor of the History of Science; Christopher Stubbs, professor of physics and astronomy; and Richard Thomas, professor of Greek and Latin.

The Harvard College Professorships were established in 1997, supported by a gift

from John and Frances Loeb. The five-year appointments provide support for professional development, either in the form of research funding or summer salary. There are a total of 24 Harvard College Professorships.

The new class of Harvard College Professors shared their classroom philosophies, their views on balancing teaching and research, and their reaction to their new recognition as extraordinary educators.

— Amy Lavoie, Steve Bradt, and Emily T. Simon  
FAS Communications

"I thoroughly enjoy the freshman seminar where we discuss the fact that 95 percent of the universe is made of stuff that doesn't appear in the periodic table," he says. "It's a delight to introduce our first-year students, especially those who don't intend to pursue a science degree, to the frontier of ignorance in modern cosmology."

Teaching and research complement and reinforce each other in his life at Harvard, says Stubbs, whose research group is a community of scholars that includes undergraduates, staff, graduate students, and postdoctoral scientists.

This summer, his team will welcome three new undergraduates as partners in the challenges of building apparatus, making measurements, and analyzing results.

"I think that much of the important learning at Harvard happens outside the lecture halls, especially in the sciences," Stubbs says.

## Richard Thomas

As professor of Greek and Latin in the Classics Department, Richard Thomas delves into the ancient world to illuminate the work of literary greats such as Horace and Virgil. But his investigations frequently make connections to the present — for example, the music of Bob Dylan.

"Dylan's recent lyrics allude to classical texts, especially the poetry of Ovid," says Thomas. "I have found it fascinating to explore that relationship, and to see Dylan engaging many of the same very human issues confronted by the great poets of Greece and Rome."

His excitement about the classics and his ability to make the subject matter relevant and contemporary are hallmarks of Thomas' courses.

"It is a delight year after year to introduce new students to the poets who have inspired two millennia of readers, and who remain as fresh and vital as they have ever been, a delight also to get new insights from the

questions new generations of students bring to these texts," Thomas says.

Thomas teaches a variety of offerings, including a General Education course on the poetry of Virgil and its reception, undergraduate courses in Latin literature, a graduate course on Latin prose composition, and a course on Dylan and his lyrics. Thomas currently serves as director of graduate studies for the department. Next year he will switch to director of undergraduate studies.

"It is a great honor to receive this award," he says. "I have been fortunate to have spent all but three of my 32 teaching years at Harvard. The students and the libraries are what appealed to me from the moment I arrived, and it's easy to forget just what a privilege Harvard faculty enjoy in this community of teaching and learning, particularly in such challenging times as these."



File Rose Lincoln/Harvard News Office



File Kris Snibbe/Harvard News Office



File Stephanie Mitchell/Harvard News Office



File Kris Snibbe/Harvard News Office

## Janet Browne

"It is fantastic to work in such a lively and open atmosphere," says Janet Browne, who joined the Harvard faculty in 2006.

Browne teaches courses on the history of evolutionary biology, Darwinism, and natural history. Her courses include undergraduate and graduate seminars, as well as classes in the Core Curriculum and the Program in General Education.

"I am thrilled to receive this honor," says Browne. "I would like to thank all the wonderful people in the History of Science department, the Collection of Historic Scientific Instruments, the Gen Ed program, the Bok Center, and the Science Center (Life Sciences 1b and Cabot Library especially), who have been so inventive and supportive in making ideas happen."

## Christopher Stubbs

Physics department chairman Christopher Stubbs was "astonished" when he opened the letter informing him of his selection as a Harvard College Professor, and "deeply hon-

**Clockwise from top left are this year's Harvard College Professors: Historian Ann Blair, historian of science Janet Browne, physicist and astronomer Christopher Stubbs, and classicist Richard Thomas. The four professors received the honor in recognition of their contributions to undergraduate teaching, advising, and mentoring.**

ored" by the recognition.

"I strive to make the research frontier in science accessible to undergraduate students, and incorporate those topics into the classroom at every opportunity," Stubbs says. "My field of research is cosmology, the study of the ingredients and interactions in the universe, and we're living through a golden age of discovery. Bringing the excitement of science as an ongoing process into the classroom is one of my main goals."

Since coming to Harvard in 2003, Stubbs has taught freshman seminars, courses in the introductory physics sequence, tutorials for astronomy concentrators, and several graduate-level classes. He had already been planning to develop several new courses — including a new General Education class — and says his Harvard College Professorship will allow him to devote time over the summer to these efforts.

# Pneumonia risk increases when patients given medication for heartburn

By Bonnie Prescott

Beth Israel Deaconess Medical Center

Ever since a class of drugs called proton pump inhibitors was introduced to the market in the late 1980s, the use of these acid-suppressive medications for heartburn, acid reflux, and other gastrointestinal symptoms has grown tremendously. The widespread use has

**medical** extended to the inpatient hospital setting, where patients are often routinely given the medications as a way to prevent the development of stress ulcers.

But a large study led by investigators at Beth Israel Deaconess Medical Center (BIDMC) finds that this routine practice may actually be harmful to patients. In their research, published in the May 27 issue of the *Journal of the American Medical Association (JAMA)*, the researchers found that acid-suppressive medications were associated with a 30 percent increased risk of developing hospital-acquired pneumonia.

“These popular medications are, by and large, considered safe,” explains the study’s lead author, Shoshana Herzig of BIDMC’s Division of General Medicine and Primary Care. “But, in fact, they may be creating an environment that predisposes patients to developing hospital-acquired pneumonia.”

The practice of administering acid-suppressive medications to hospitalized patients originated in intensive care units (ICU), where a combination of stressful conditions and intubation (insertion of a tube into the airway to help a patient breathe) leaves individuals at higher risk of developing stress ulcers. In an attempt to thwart this development, many hospitals began routinely prescribing acid-suppressive agents to all patients in the ICU. And, over time, the practice was also extended to general medical patients, explains Herzig. Today, an estimated 40 percent to 70 percent of hospitalized patients receive some form of acid-suppressive medication, either proton pump inhibitor drugs or medication known as

histamine2 receptor antagonists.

“The common thinking has been that these medications are effective at preventing gastrointestinal bleeding, and that they do so without risk,” notes Herzig. She and her co-authors, therefore, decided to determine whether this was indeed the case.

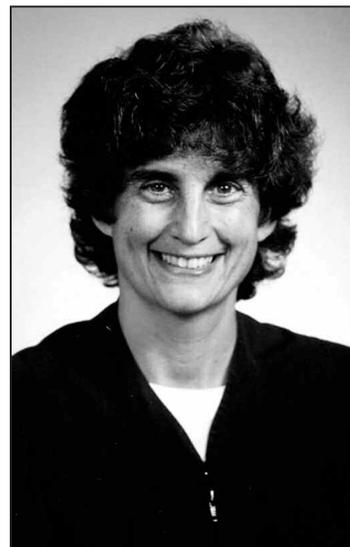
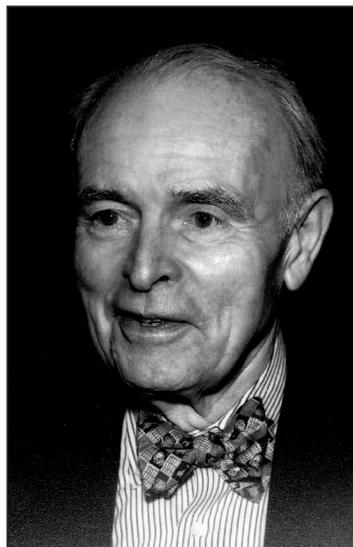
The researchers examined the records of all patients over age 18 admitted to BIDMC and hospitalized for three days or more between January 2004 and December 2007, a total of 63,878 hospital admissions. Using hospital pharmacy records, they determined whether patients were prescribed an acid-suppressing medication during their stay.

Their analysis concluded that acid-suppressive medication was ordered in 32,922 admissions, or 52 percent. (Of the patients who received acid-suppressive medication, 83 percent – 27,236 patients – received proton pump inhibitor drugs, while 23 percent – 7,548 patients – received histamine 2 receptor antagonists, with some exposed to both.) The ma-

majority of these medications were ordered within 48 hours of admission.

Using a traditional statistical approach known as multivariable modeling, together with a newer statistical approach using propensity scores, they found that hospital-acquired pneumonia occurred in 2,219 admissions. After further analysis and adjustment for other potential factors that could influence outcomes, the investigators determined that the patients who received the medications had a 30 percent greater risk of developing pneumonia than other patients.

“By reducing acid in the stomach, the medications may be creating a distinct bacterial colonization in the gastrointestinal and respiratory tracts, predisposing patients to develop pneumonia,” explains Herzig. Furthermore, she adds, by reducing the acidity of the stomach contents (as occurs with the use of these medications) a patient’s stimulus to cough may also be reduced, posing another risk factor for pneumonia.



Recipients of this year’s Harvard Medals include (from left) John ‘Jack’ F. Cogan Jr. A.B. ’49, J.D. ’52; Harvey V. Fineberg A.B. ’67, M.D. ’71, M.P.P. ’72, Ph.D. ’80; and Patti B. Saris A.B. ’73, J.D. ’76.

## HAA announces Harvard Medal recipients

The Harvard Alumni Association (HAA) has announced the recipients of the 2009 Harvard Medal: John “Jack” F. Cogan Jr. A.B. ’49, J.D. ’52; Harvey V. Fineberg A.B. ’67, M.D. ’71, M.P.P. ’72, Ph.D. ’80; and Patti B. Saris A.B. ’73, J.D. ’76.

The Harvard Medal was first given in 1981 with the principal objective of recognizing extraordinary service to Harvard University. Extraordinary service can be in as many different areas of University life as can be imagined, including teaching, fundraising, administration, management, generosity, leadership, innovation, or labors in the vineyards. President Drew Faust will present the medals during the annual meeting of the HAA on Commencement afternoon (June 4).

### John ‘Jack’ Cogan Jr.

Alongtime benefactor to Harvard, Cogan has served as a distinguished alumnus of Harvard College and Harvard Law School (HLS), as well as the greater Harvard community. He served as co-chair of the HLS campaign and co-chair of its international advisory council. He also served as chair of the HLS 1989-95 campaign. He has been a member of the School’s visiting committee since 1985 and is a member of the dean’s advisory board executive committee. A loyal alumnus of the College, he serves as a member of the executive committee of the Committee on University Resources (COUR) and has served on the executive committee of the Friends of Harvard Track for three decades. He was the recipient of the HLS Association

Award in 1996.

Additionally, Cogan also serves on the director’s advisory committee for the Harvard Art Museums and was a former chairman of the visiting committee to the Davis Center for Russian Studies.

Cogan is presently of Counsel to the Boston law firm Wilmer Cutler Pickering Hale and Dorr LLP, having joined the firm as a partner in 1957, becoming managing partner in 1976, and chairman from 1984 to 1996. He is also currently vice chairman of Pioneer Global Asset Management S.p.A. (Milan), president of the Pioneer Group of Mutual Funds, and a fellow of the American Academy of Arts and Sciences. He is married to Mary L. Cornille.

### Harvey V. Fineberg

Fineberg’s dedication and service to Harvard has been substantial. The holder of four Harvard degrees, he had distinguished service as provost of Harvard from 1997 to 2001, following 13 years as dean of the Harvard School of Public Health (HSPH). He is a member of the HSPH François-Xavier Bagnoud Center for Health and Human Rights Advisory Committee, serves as a member of the Harvard Business School (HBS) Healthcare Initiative External Advisory Board, and was a member of his class reunion gift committee.

President of the Institute of Medicine, Fineberg has devoted most of his academic career to the fields of health policy and medical decision making. Fineberg co-founded and served as president of the Society for

Medical Decision Making and also served as adviser and consultant to the U.S. Centers for Disease Control and Prevention and the World Health Organization. He is a member of the board of directors of the William and Flora Hewlett Foundation, the Carnegie Endowment for International Peace, and the China Medical Board, a charitable foundation. He is the author, co-author, and co-editor of numerous books and articles on such diverse topics as AIDS prevention, vaccine safety, assessment of new medical technology, clinical and public health decision making, and understanding risk in society. He is married to Mary E. Wilson.

### Patti B. Saris

Saris served on the Board of Overseers and as its president in 2005-06 and she was a member and former chair of the HAA committee to nominate candidates for overseer and elected director. Long active in various Harvard alumni organizations, Saris has chaired several HLS reunions. She was elected chief marshal of her 25th reunion class in 1998, and has served on visiting committees to the College, Harvard Graduate School of Education, and HLS.

She serves on the U.S. District Court for the District of Massachusetts and has held teaching appointments at Boston University Law School and HLS. She is married to Arthur Segal A.B. ’73, professor of management practice at HBS, and they have four children, including Edward A.B. ’06 and Marisa, Ed.M. ’08.

# Seceding from the secessionists

*The surprising story of Civil War Mississippi and the State of Jones*

By Emily T. Simon  
*FAS Communications*

Deep in Civil War Mississippi, where manicured plantations gave way to wild swampland and thick pine forests, a young white man named Newton Knight led a ragtag band of guerilla fighters against the Confederate Army. His story is one of personal bravery and unwillingness to adhere to the secessionist movement that all but surrounded him. It also tells of interracial alliances and the complexity of politics during the Civil War, when allegiances were not quite as simple as “Northern” or “Southern.”

Knight’s rebellion is the focus of “The State of Jones,” a forthcoming book by John Stauffer, chair of the Program in the History of the American Civilization and professor of English and of African and African American studies, and Sally Jenkins, journalist and columnist at the Washington Post. The book’s



Kris Snibbe/Harvard News Office

**John Stauffer: ‘The Confederates kept trying to snuff [the Unionist guerrilla companies] out with cavalry but Newt and his men knew how to fight in the swamps.’**

title refers to Jones County, the area of Mississippi where Knight lived and fought. Jones was the poorest county in the state and a surprising bastion of Unionism.

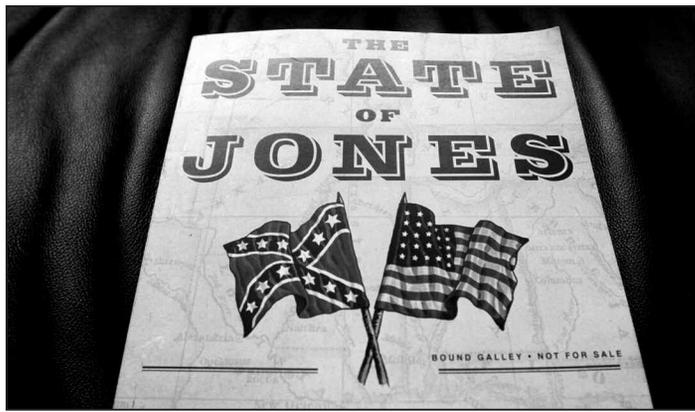
The story of Jones first emerged in 1886 in *Magazine of American History*. Until recently, Stauffer noted, Knight has been cast as a common thief or a madman. Writer, director, and producer Gary Ross learned about the story, decided to write a screenplay, and hired Stauffer as a consultant. He then encouraged Stauffer and Jenkins to write a book. The pair spent time at numerous archives throughout the United States; what they discovered was a fascinating history that shed new light on Unionism in the South.

“To this day, there is a popular misconception that white Southerners were united in their embrace of the Confederacy,” said Stauffer. “Stories like Newton Knight’s demonstrate that it was not the case.”

The residents of Jones County were primarily poor yeoman farmers and Primitive Baptists who opposed slavery and secession for economic and, in some cases, religious reasons.

“They lived hardscrabble, rough lives,” said Stauffer, “in stark contrast to the cotton-fueled wealth that could be found throughout the Mississippi Delta.”

Newton Knight — whom Stauffer calls “Newt,” as though he’s speaking of a friend he saw yesterday — was a radical reformer and leader in his community. He opposed slavery for religious and economic reasons. After



being pressed into service for the Confederate Army and serving at the Battle of Corinth, Knight and his friends deserted and retreated to hide out in Jones County.

“His life was saved by blacks, who taught him how to survive in the woods and swamps,” said Stauffer.

Knight began rounding up like-minded deserters and black allies and trained them to fight and survive on the forbidding terrain. In 1863, following the Battle of Vicksburg, the men pledged allegiance to the United States and launched a campaign of guerilla warfare against Confederate troops.

“The company consisted of about 70 men, and they received aid from [Gen. William Tecumseh] Sherman,” Stauffer said. “The Confederates kept trying to snuff them out with cavalry, but Newt and his men knew how to fight in the swamps.”

By the end of the war, numerous Unionist guerrilla companies controlled the Piney Woods, the bottom quarter of the state. The strength of Unionism in Southern Mississippi was “terrifying” to the Confederate leadership, Stauffer said.

“Mississippi was the marrow of the Confederacy, the second state to secede, and home to some of the wealthiest and most powerful men in America,” said Stauffer. “The Confederate high command was frightened and outraged by the amount of Unionism that emerged there.”

Even more alarming for Confederates, Stauffer said, was the idea of whites and blacks rebelling in league.

“This truly was their worst nightmare,” he said.

The end of the Civil War brought little comfort for Knight and his men, according to Stauffer.

“The Confederates surrendered but they did not lay down their arms,” Stauffer said. “Instead, they continued shooting blacks, Unionists, and Republicans, and started a reign of terror throughout the South.”

During Reconstruction, Knight befriended and worked with Republican Gov. Adelbert Ames and led a company of black militiamen.

“They were essentially living under siege, fighting off the former Confederate soldiers, who continued to kill Republicans at will,” said Stauffer.

The continuation of violence highlights the extent to which the South won the war, “not only ideologically but militarily,” Stauffer argued.

“The long, scholarly legacy of romanticizing the South has overshadowed these stories of Southern Unionism,” Stauffer said. “The desire for reunion between Northerners and Southerners required the war to be whitewashed. During Reconstruction, the last phase of the war from Knight’s perspective, white Southerners won a war of attrition, preserving the old order of black unfreedom — despite constitutional amendments that guaranteed equality under the law for all persons.”

Official records, such as Confederate reports, proved helpful for Stauffer and Jenkins as they researched the history of Jones County.

“We only have one letter by Newt ... so we had to rely extensively on official documents along with ‘parallel narratives’ from people whose experiences resembled those of Newton, such as ex-slaves and other Republicans in the South,” Stauffer said.

Stauffer and Jenkins also traveled to homes in Mississippi to meet and conduct interviews with descendants of the Knight family.

“The State of Jones” is published by Doubleday Press. It will be available in June.

# Face transplant recipient shares gratitude, hopes for his future

By Alvin Powell  
*Harvard News Office*

James Maki, a 59-year-old who became the nation’s second face transplant recipient in April to repair injuries from a horrific subway accident, left Brigham and Women’s Hospital May 21, thankful for what he called a “new chance to build my life.”

**medicine** Maki, whose April 9 surgery at the Harvard-affiliated hospital received wide news coverage, appeared in public for the first time May 21 at a Brigham news conference. With him was Susan Whitman-Helfgot, the wife of donor Joseph Helfgot, who died at age 60 during heart transplant surgery.

Justin Ide/Harvard News Office



Maki

Maki expressed his gratitude to the Helfgot family and the doctors at the Brigham and said he hopes his story highlights the importance of organ donation. Maki, whose place of residence was kept confidential, asked for privacy as he continues his rehabilitation and takes steps to start his life again.

“They did not know me. Clearly it was a deeply held belief in helping others that led them to their decision,” Maki said of the Helfgots. “I will be forever grateful.”

Maki, a Vietnam veteran who moved to Amherst, Mass., from Seattle when he was in high school, was injured in 2005 during an accident at the Ruggles stop on Boston’s subway Orange Line. Maki fell onto the tracks and came in contact with the electrified third rail. The contact burned away much of the middle of Maki’s face, including his upper lip, hard palate that makes up the roof of the mouth, and his nose.

Reconstructive surgery after the accident left Maki able to survive, but with a hole in his face where his nose used to be and difficulty speaking and eating.

His partial face transplant gave him a new nose, hard palate, upper lip, nasal structure, facial skin and the muscles and nerves that move the skin and give it sensation.

He received the transplant during a marathon 17-hour procedure that involved 35 doctors, anesthesiologists, nurses, and other clinical personnel working in two operating rooms to harvest the tissue and transplant it.

Maki said the transplant is pain free and the first thing he thought when he looked at his new face was that his new nose looks like his old one.

Whitman-Helfgot also spoke, describing her husband as someone who grew up in poverty but sought out an education, earning a doctorate. He became a father and worked in Hollywood as a marketing adviser on such films as “Iron Man,” “X-Men,” and “Spider-Man.” She declined to share details of the family’s discussions as they weighed whether to permit the transplant, but urged everyone in the room to sign up to become organ donors, saying her husband’s heart transplant failed because he had to wait too long for a donor heart.

Seeing Maki, she said, helps take some of the sting out of losing her husband. She called Maki’s transformation “a miracle and a blessing.”

(See **Transplant**, next page)

# Nieman Foundation chooses 24 for its 72nd class of Nieman Fellows

The Nieman Foundation for Journalism at Harvard has selected 24 journalists from the United States and abroad to join the 72nd class of Nieman Fellows. The group includes print and multimedia reporters and editors; radio and television journalists; photographers; book authors; a filmmaker; and a columnist.

Established in 1938, the Nieman Foundation is the oldest midcareer fellowship program for journalists in the world. Working journalists of accomplishment and promise are selected to come to Harvard University for a year of study, seminars, and special events. More than 1,300 journalists from 89 countries have received Nieman Fellowships.

## The U.S. Nieman Fellows in the Class of 2009-10 and their areas of interest:

**Martha Bebinger**, state house reporter, WBUR in Boston, will study health care spending and the politics of trying to curb health care costs.

**Monica Campbell**, a freelance journalist based in San Francisco, will study how criminal organizations create cultures of fear and fuel corruption, with a special focus on Mexico and ways the press can effectively navigate the current climate of violence there. She is the Louis Stark Nieman Fellow. The fellowship honors the memory of The New York Times reporter who was a pioneer in the field of labor reporting.

**Jeff Howe**, contributing editor, Wired magazine, will examine the recent growth and historical origins of "crowdsourcing," defined by Howe himself in a 2006 Wired article as the use of the Internet for cooperative efforts among large groups of otherwise disconnected people. Howe is especially interested in researching the use of crowdsourcing for the development of sustainable journalism models.

**Beth Macy**, families beat reporter, The Roanoke (Va.) Times, will study the impact of the aging baby boomer population as well as financial, social, and political solutions to the long-term care crisis.

**Liz Mineo**, reporter, The MetroWest Daily News in Framingham, Mass., will study the social, economic, political, and legal implications of the recent waves of Latin American immigrants to the United States, with a special focus on Brazilian immigrants. Mineo is the Donald W. Reynolds Nieman Fellow in Community Journalism.

**Lisa Mullins**, anchor/senior producer,

Public Radio International's "The World," will conduct a real-time critical assessment of the resurgence of diplomacy in U.S. foreign policy during the first 16 months of the Obama administration.

**Joshua Prager**, a freelance journalist and author from New York, will study how individuals and societies reckon with disclosures of secrets and suppressed truths.

**Alissa Quart**, author, contributing editor/columnist, Columbia Journalism Review, and contributing writer, Mother Jones, will study how the increased influence and ubiquity of visual media, from cable TV to Flickr, from Facebook to Google images, is changing journalism, memory, and everyday life.

**Kevin Sites**, a freelance multimedia journalist and author based in Los Angeles, will examine the challenges of maintaining public interest if the war-reporting paradigm shifts from combat-centric to collateral damage. He will also explore options for sustainable, independent, Web-based reporting.

**Marcela Valdes**, a freelance writer from Annapolis, Md., will study the historical roots of contemporary Latino and Latin American culture, with a focus on how film and literature grapple with the political and artistic legacies of the 1970s, including dictatorships, forced immigration, and magical realism. Valdes is the 2010 Arts and Culture Nieman Fellow.

**Shankar Vedantam**, national science reporter, The Washington Post, will study solutions to collective action problems and explore how online social networks might solve public policy challenges. He also will study how perceptions of intraracial differences influence education, politics, and the criminal justice system.

## Nieman Fellows in Global Health Reporting and their areas of interest:

**Helen Branswell** (Canada), medical reporter, The Canadian Press, plans to study disease eradication efforts and the demands they place on developing countries.

**Hopewell Rugoho-Chin'ono** (Zimbabwe), documentary film director/news producer, Television International, Zimbabwe, will examine the impact of poor health on Africa's prosperity and the relationship between poverty and mental illness. Rugoho-Chin'ono is the Robert Waldo Ruhl Nieman Fellow.

## International Nieman Fellows and their areas of interest:

**Audra Ang** (China), correspondent, The

Associated Press, will study how new media such as Twitter and blogs are shaping activism and nationalism in China. Ang is the Atsuko Chiba Nieman Fellow. Her fellowship honors the memory of Atsuko Chiba, a 1968 Nieman Fellow.

**Maria Balinska** (United Kingdom), editor, World Current Affairs Radio, BBC, will explore the future of reporting in the digital age in the wider context of how the Internet is changing society. She will also study contemporary America with a particular emphasis on how the media are affecting policy and politics. Balinska is the Ruth Cowan Nash Nieman Fellow.

**Ibrahim Barzaq** (Palestinian Territories), correspondent, The Associated Press, will study history and political science to better understand how leaders in Israel, the United States, and Palestine make decisions. He is the Barry Bingham Jr. Nieman Fellow.

**Janet Heard** (South Africa), executive editor, Weekend Argus, will study post-liberation politics, leadership, and power. She also will examine the battle to retain democratic principles and a moral compass in governments globally, with a particular interest in Africa. Heard's fellowship is supported by the Nieman Society of Southern Africa.

**Joana Gorjão Henriques** (Portugal), deputy editor, Público, will study the ways in which minorities in interracial societies influence intellectual circles and leading institutions, including the media. Henriques' fellowship is funded by the Luso-American Foundation and the Calouste Gulbenkian Foundation.

**Jana Jugovic** (Canada), director of news and programming, CTV News Channel, and executive producer, CTV News Specials, will study the impact of 24-hour news on public policy. Jugovic is the Martin Wise Goodman Canadian Nieman Fellow.

**Gary Knight** (United Kingdom), photographer and editor, VII Photo Agency and Dispatches Quarterly, will examine the interconnectivity of some of the broad issues facing mankind, including the economy, the environment, foreign policy, human rights, and primary health care. He also plans to research business studies pertaining to the mass media and will study Asian societies and history. He is the Carroll Binder Nieman Fellow.

**Alejandra Matus** (Chile), freelance journalist for The Clinic, Paula magazine, Terra magazine, and The Miami Herald, will study

political science and technology to understand the impact social inequality and the concentration of economic power have on democracy, as well as the possibilities and limitations of new media technologies. Matus is a John S. and James L. Knight Foundation Latin American Nieman Fellow.

**Boris Muñoz** (Venezuela), editor in chief, Exceso magazine, will study the impact of new media on journalism as well as the influence of globalization on political processes in Latin America. He is a John S. and James L. Knight Foundation Latin American Nieman Fellow.

**James Reynolds** (United Kingdom), China correspondent, BBC News, plans to investigate how wars end and will seek an answer to the question "Does violence work?"

**Maxim Trudolyubov** (Russia), op-ed page editor for the business daily Vedomosti, will study the role of opinion journalism in today's media and society. Trudolyubov is the William Montalbano Nieman Fellow.

The U.S. fellows were selected by Marie Danziger, lecturer in public policy and director of the Communications Program at Harvard Kennedy School; Louise Kiernan, a senior editor at the Chicago Tribune and a 2005 Nieman Fellow; and Michael Skoler, founder of Public Insight Journalism and a 1993 Nieman Fellow. Bob Giles, Nieman Foundation curator and a 1966 Nieman Fellow, chaired the committee.

The Nieman Global Health Reporting Fellows were chosen by Linda Harrar, a documentary producer, director, and writer, whose films focus on global health and the environment; and Stefanie Friedhoff, special projects manager for the Nieman Foundation and a 2001 Nieman Fellow. Giles was chair of the committee.

The Nieman Fellow in Arts and Culture Reporting was selected by Jack Megan, director of the Office for the Arts at Harvard University; and Alicia Anstead, editor of Inside Arts magazine, freelance arts writer, and the 2008 Arts and Culture Nieman Fellow. Giles chaired the committee.

In addition to administering the Nieman Fellowship program, the Nieman Foundation also publishes the quarterly magazine Nieman Reports. The foundation also is home to the Nieman Program on Narrative Journalism and the Nieman Watchdog Journalism Project, which encourages reporters and editors to monitor and hold accountable those who exert power in all aspects of public life.

## Transplant

(Continued from previous page)

Also speaking were Elof Eriksson, chief of the Brigham's Division of Plastic Surgery and Joseph E. Murray Professor of Plastic and Reconstructive Surgery at Harvard Medical School; Bohdan Pomahac, a plastic surgeon at the Brigham and assistant professor of surgery at Harvard Medical School; and Richard Luskin, president and chief executive officer of the New England Organ Bank.

Pomahac, who led the surgical team for Maki's transplant, first met Maki the night of his injury, when he was the surgeon on call. The thought of doing a face transplant didn't occur to Pomahac, since the first such operation, in France in 2005, hadn't yet been conducted.

Maki faces a lifetime on antirejection drugs to ensure his body doesn't reject the donor tissue as foreign. Because those drugs suppress his immune system, they could make Maki more susceptible to infection. He may also face additional surgery to trim excess skin, Pomahac said, though that hasn't been determined yet. It will take months before the swelling goes down and enough nerve regrowth occurs to give Maki sen-

sation in his new tissue. After that happens, further steps will be considered, Pomahac said.

"We will not let our guard down because we're in uncharted water with [this] transplantation," Pomahac said.

The operation was just the second of its kind to be conducted in the United States and among just a handful worldwide. Since the first partial face transplant in 2005, similar procedures have been performed in France, China, and at the Cleveland Clinic in Ohio.

The recipient of the world's first face transplant, Isabelle Dinoire, a French woman who had been mauled by a dog, visited Maki at the hospital recently. Leaders of the Brigham team had met Dinoire before, when they traveled to France in preparation for Maki's surgery.

Pomahac said it is likely that more such surgeries will be performed. He estimated there are several hundred people in the United States who could benefit — including more than 100 wounded soldiers. Face transplant surgery, he said, could become an infrequent but regular procedure performed in extraordinary cases.

"Right now I strongly believe this is a way to



Justin Ide/Harvard News Office

treat the worst facial deformities," Pomahac said.

The Brigham has had a pioneering role in the history of transplantation. The first ever organ transplant was performed there in 1954 when Joseph Murray, today a professor of surgery *emeritus* at Harvard Medical School, transplanted a kidney from one brother to another. Murray won the 1990 Nobel Prize in medicine for his work on organ transplantation. In 2006 alone, more than 100 kidney transplants and 30 lung transplants were performed there.

**Face transplant recipient James Maki (right) and Susan Whitman-Helfgot, the wife of donor Joseph Helfgot, appear at a press conference on May 21. Maki expressed his gratitude to the Helfgot family and the doctors at Harvard-affiliated Brigham and Women's Hospital, where the surgery was performed.**

# Hospice care underused by many terminally ill patients, HMS study finds

By David Cameron  
Harvard Medical School Communications

A new study led by researchers at Harvard Medical School (HMS) found that only about half the patients diagnosed with metastatic lung cancer discuss hospice care with their physician within four to seven months of their diagnosis.

"Many terminally ill patients who might benefit from hospice aren't discussing it with their physicians and may not be aware of the services hospice could offer," says Haiden Huskamp, lead author of the study and HMS associate professor of health care policy. Findings were published in the May 25 Archives of Internal Medicine.

Hospice, a well-established approach to

palliative care, has enabled countless people worldwide to die with dignity. Through focusing on the patient rather than the disease, hospice ensures that individuals spend the last weeks of their lives in an environment where caregivers minimize their pain, maximize their comfort, and provide bereavement services for loved ones and family members.

Through the Cancer Care Outcomes Research and Surveillance Consortium, the researchers surveyed 1,517 patients diagnosed with metastatic lung cancer. For reasons not clear, blacks and Hispanics were less likely to discuss hospice than whites and Asians. Forty-nine percent of blacks and 43 percent of Hispanics discussed hospice with their doctors; for whites and Asians the percentages were 53 and 57, respectively. Married people were also

less likely than unmarried people to have this discussion (51 percent compared with 57 percent, respectively).

In general, the longer patients expected to live after their diagnosis, the less likely they were to have explored hospice care with their doctors. However, the researchers also found that patients tended to overestimate how long they had to live. For example, about 30 percent of the patients thought that they would live up to two years. In reality, though, only about 6 percent of patients with metastatic lung cancer will survive that long.

What's more, patients who preferred care that eased their pain and suffering at the end of life over care that extended life (roughly 50 percent of patients) were no more likely to have discussed hospice than patients who had

the opposite preference.

"These conversations can be difficult for everyone involved — patients, families, and physicians," says Huskamp. "But discussing prognosis and end-of-life care options in advance is essential to make sure that patients receive care that reflects their wishes."

"Patients with advanced lung cancer understandably hope that cancer treatments can extend their lives," notes John Ayanian, senior author on the study and HMS professor of medicine and health care policy. "When these treatments are no longer working, their doctors have an important role to play in offering them hospice care that will ease their symptoms as they approach the end of life."

This study was funded by the National Cancer Institute.

In 1999, Alessandra Sanguinetti began photographing two young cousins growing up in Buenos Aires. During her fellowship year, Sanguinetti will continue the project. The images include 'Time Flies,' 2005 (right), and 'Untitled,' 2004 (below).



## Peabody awards photography fellowship



The Peabody Museum of Archaeology and Ethnology has recently announced Alessandra Sanguinetti as the recipient of the 2009 Robert Gardner Fellowship in Photography. Sanguinetti, an award-winning photographer who divides her time between the United States and Argentina, will be working on a project titled "The Life That Came," inspired by an earlier project, "The Adventures of Guille and Belinda and the Enigmatic Meaning of Their Dreams."

In 1999, she began photographing two young cousins as they grew up in the remote farmlands outside Buenos Aires. She cultivated a close relationship with the girls over a five-year period, capturing their dreams and desires as their childhood ended and they became young adults. Sanguinetti writes, "The Pampas is a mythical space rooted in Argentina's identity, embraced by a society that celebrates men's accomplishments, yet rarely acknowledges the lives of women. ... Now the girls will enter not only the adult world they once imagined, but a more complex social one as well." During her fellowship year, Sanguinetti will focus both on the two girls' individuality and on the wider social networks and context in which they live.

## NEWSMAKERS

### Beaudry and Theodore named Trudeau Scholars

The Trudeau Foundation has recently awarded two 2009 Trudeau Scholars scholarships to doctoral candidates **Jonas-Sébastien Beaudry** and **David Theodore**. Beaudry, currently pursuing a juridical science doctorate at Harvard Law School, and Theodore, an architecture and urban planning doctoral candidate at the Harvard Graduate School of Design, were among the 15 scholars who will each receive a scholarship worth up to \$180,000 to help with their research. Beaudry is examining social exclusion in Latin America with a view to promote equality and better integration of various social groups, and Theodore's work concentrates on the architecture of health-care buildings as a form of medical technology influencing health care.

### GSD's Niall Kirkwood honored for work in landscape architecture

**Niall Kirkwood**, chair of the Department of Landscape Architecture and professor of landscape architecture and technology at the Graduate School of Design (GSD) has been named a Fellow of the American Society of Landscape Architects.

In addition, the Kew Guild has awarded Kirkwood an honorary fellowship for distinguished service to the general advancement of landscape architecture and technology internationally. The Kew Guild, founded in 1893, is an Association of The Royal Botanic Gardens in Kew, England. Kirkwood will receive the honorary degree of Doctor of Science from the University of Ulster in Ireland on July 1 for his services to landscape architecture and for building links between Ireland and Harvard.



Kirkwood

He has served as the Gerald O'Hare Visiting Scholar at the University of Ulster since 2007 and has worked closely with its Built Environment and Real Estate Initiative, developing advanced graduate studios in Newry, Derry, and Belfast for the GSD.

— Compiled by Gervis A. Menzies Jr. and Sarah Sweeney  
Send news briefs to [gervis\\_menzies@harvard.edu](mailto:gervis_menzies@harvard.edu)

# Radcliffe Institute 2009-10 fellows include artists, scientists

The Radcliffe Institute for Advanced Study at Harvard University has announced the women and men selected to be Radcliffe Fellows in 2009-10. These creative artists, humanists, scientists, and social scientists were chosen for their superior scholarship, research, or artistic endeavors, as well as the potential of their projects to yield long-term impact. While at Radcliffe, they will work both within and across disciplines.

The fellows include an astronomer searching for Earth-like planets in Centaurus, a constellation neighboring Earth's own solar system, and a visual artist and founding member of the international avant-garde Fluxus movement, who will explore multimedia works of art. There will be two thematic clusters: one in economics and another in mathematics. (Clusters are small groups of fellows who work collectively on a problem or set of issues.) The economics cluster will develop a new method to evaluate the ways changes in the economic environment affect the welfare of individuals, while the mathematics cluster will explore dispersive wave phenomena from a nondeterministic viewpoint.

**Joanna Aizenberg**, the Susan S. and Kenneth L. Wallach Professor at Radcliffe and the Amy Smith Beryson Professor of Materials Science at Harvard's School of Engineering and Applied Sciences, will be this year's professor in residence. Aizenberg joined the community of fellows in 2008-09 and was part of a Harvard team that discovered a way to control the assembly of nanobristles into helical clusters — a breakthrough that has practical applications in energy and information storage, adhesion, and other areas. Among the Radcliffe fellows again this fall, Aizenberg will continue to explore connections among engineering, physics, chemistry, biology, and architecture through biomimetics.

"With great enthusiasm for the promise of the year to come, we welcome these distinguished scholars, scientists, and artists to Radcliffe. We look forward to watching their work develop into exciting discoveries and to witnessing the meaningful collaborations they form with one another and with members of the Harvard and local communities," said Barbara J. Grosz, dean of the Radcliffe Institute for Advanced Study and Higgins Professor of Natural Sciences in the School of Engineering and Applied Sciences.

A leader among the nation's centers for advanced studies, Radcliffe annually hosts award-winning artists, academics, and professionals, including musicians, mathematicians, filmmakers, anthropologists, biologists, and writers. The 2009-10 fellows were selected from 853 applicants from the United States and around the world.

Examples of the fellows in each of four broad disciplinary areas (creative arts, humanities, sciences, and social sciences) appear immediately below; a full list of the 2009-10 fellows appears at the end of the article.

## Creative arts fellows

Among the creative arts fellows is **Alison Knowles**, a visual artist and founding member of Fluxus — an international avant-garde movement established in 1962 that melds different media and disciplines, emphasizing frequently neglected elements as a basis for the creation and performance of art. Knowles created "The House of Dust," the first computerized poem on record, for which she won a 1967 Guggenheim fellowship; "The Big Book" (1967), a walk-in book with 8-foot pages, which toured in Europe; and "Bohnen Sequenzen" (Bean Sequences), a series of plays exploring the resonant sounds made by beans against hard surfaces, which won her a 1982 Karl Sczuka Prize for Works of Radio Art. Her unique installations, performances, prints, publications, and sound work have been recognized with many other awards. Knowles' Radcliffe project is titled "Fluxus Around the Clock."

**Leonard Retel Helmrigh** is a film director at Scarabefilms (Netherlands) whose critical-

ly acclaimed documentaries about Indonesia have won him several international prizes. As the developer of single-shot cinema (a theoretical perspective and practical technique involving long takes with a constantly moving camera) and the SteadyWing (a camera mount that enables greater stability and maneuverability while shooting), Retel Helmrigh has taught workshops around the world. During his Radcliffe fellowship year, co-sponsored by the Harvard Film Study Center, he will work on a documentary titled "Position of the Stars," which reveals the effects of globalization, commercialization, and the interpretation of Islam in Indonesia through the eyes of a 16-year-old girl.

## Humanities fellows

The humanities fellows include art historian **Claire Margaret Roberts**, the senior curator of Asian decorative arts and design at the Powerhouse Museum in Sydney, Australia, and a fellow at the Australian National University. Among Roberts' numerous honors are grants from the Smithsonian Institution and the Australia-China Council, as well as multiple art-related Australian government appointments. Fluent in Chinese, she has edited or co-edited several books and catalogs and curated many major exhibitions related to north Asian visual culture, including "The Great Wall of China" (2006), a joint project of the Powerhouse Museum and the National Museum of China, Beijing. At Radcliffe, Roberts will study the history of photography in China and the Hedda Morrison archive at Harvard-Yenching Library.

**Ravit Reichman** is an associate professor of English at Brown University (effective July 2009). She is the author of "The Affective Life of Law: Legal Modernism and the Literary Imagination" (Stanford University Press, 2009), which examines the relationship between literature and law, with special emphasis on psychoanalysis and the traumas of the world wars. While at Radcliffe, Reichman will undertake the first book-length study of the ways in which literature and law jointly shape conceptions of property and the symbolism of property in 20th century society. Her book "Lost Properties of the 20th Century" will appraise the theme of loss in Modernism against the backdrop of shifts in the traditional legal concept of property from the end of World War I through the post-Holocaust era.

## Science fellows

Among the natural science and mathematics fellows is **Debra Ann Fischer**, an associate professor of astronomy at San Francisco State University. As part of Radcliffe's 2005-06 Lectures in the Sciences series, Fischer gave a public talk on the formation and evolution of extrasolar planetary systems. Since 1997, she has participated in the discovery of more than 150 extrasolar planets — planets that orbit other stars. She serves or has served as the principal investigator on multiple projects, including the Lick Planet Search program, the Keck program to detect the presence of hot Jupiters (N2K), a multiplanet modeling project for NASA's Jet Propulsion Laboratory (JPL), and the Cerro Tololo Inter-American Observatory (CTIO) program in Chile to search for Earth-like planets around Alpha Centauri A and B. For her Radcliffe project, titled "Searching for Earths in the Alpha Centauri System," Fischer will write about the search for habitable worlds and life in the solar neighborhood.

**Ben J. Green** is a renowned mathematician and Herchel Smith Professor of Pure Mathematics at the University of Cambridge's Trinity College. He calls his specialty "arithmetic combinatorics"; he studies questions that lie at the interface of combinatorics, number theory, and analysis. Green's contributions to the field of mathematics have earned him several awards, including a 2008 European Mathematical Society Prize and a 2004 Clay Research Award (an award that recognizes major breakthroughs in mathematical research) for his joint work with Terry Tao on arithmetic pro-

gressions of prime numbers. Through his Radcliffe project "Discrete Rigidity Phenomena," Green aims to understand "approximate" structures in various parts of mathematics, how they relate to "exact" ones, and the implications of this relationship for number theory and other areas.

## Social science fellows

The social science fellows include economists **Jerry R. Green**, the David A. Wells Professor of Political Economy, John Leverett Professor, and a senior fellow of the Society of Fellows; and **Daniel Andres Hojman**, an assistant professor of public policy at the Harvard Kennedy School, who will form an economics cluster studying "Choice, Rationality and Welfare Measurement" at Radcliffe. Green was one of the originators of the theory of rational expectations and of a variety of concepts and methods in the economics of incentives and information. He has developed analytical models to study the role of social networks in welfare and inequality and examined the impact of corruption on political participation. While at Radcliffe, Green and Hojman will create a methodology to evaluate economic policies and actions that function regardless of the rationality of the people whose welfare is being evaluated.

**Nancy J. Smith-Hefner** is an associate professor of anthropology at Boston University. A scholar of gender studies, linguistic anthropology, psychological anthropology, and educational anthropology, Smith-Hefner has a special interest in Asians in America and southeast Asian Islam. Her research on Buddhism, gender, and cultural adaptation among Khmer (aboriginal people of Cambodia) in the United States and her investigation of language socialization and linguistic identity among Tenger Javanese have been supported by many prestigious awards and fellowships, including a 2002 National Endowment for the Humanities Fellowship. At Radcliffe, Smith-Hefner will complete a book titled "Muslim Youth: Gender, Sexuality and Public Piety in Indonesia's New Middle Class" — a culmination of her nine-year study of Muslim youth in south-central Java that examines changing norms and practices of gender and sexuality within a setting of ongoing Islamic resurgence and sociopolitical transformation.

Now in its ninth year, the Radcliffe Institute's highly competitive fellowship program has provided yearlong residencies to approximately 500 award-winning artists, scientists, and scholars. Past fellows include biologist **Susan Lindquist**, whose discoveries about protein folding have profoundly affected our understanding of diseases such as Alzheimer's, Parkinson's, and mad cow and who recently won the prestigious Otto Warburg Medal; celebrated musician **Mulatu Astatke**, a composer, arranger, and founder of a hybrid music form called Ethio Jazz that blends Ethiopian traditional music and Latin jazz; Pulitzer Prize-winning journalist **Tony Horwitz**, who is also the author of several nonfiction books about history and travel; and defense lawyer **Hauwa Ibrahim**, a winner of many precedent-setting cases before Islamic Sharia courts who was honored with the European Parliament's 2005 Sakharov Prize for Freedom of Thought.

The 2010-11 fellowship applications for creative artists, humanists, and social scientists are due Oct. 1; applications for natural scientists and mathematicians are due Nov. 15. Materials sent by mail should be postmarked by these dates.

Applicants are evaluated at two levels of review. In the first level, two leaders in each applicant's field evaluate and rank the applicant. The top applicants are then submitted to a fellowship committee, which selects the fellowship class.

The Radcliffe Institute for Advanced Study at Harvard University is a scholarly community where individuals pursue advanced work across a wide range of academic disciplines, professions, and creative arts. Within this

broad purpose, the institute sustains a continuing commitment to the study of women, gender, and society.

## Radcliffe Institute Fellows and their projects

**Joanna Aizenberg**,\* Susan S. and Kenneth L. Wallach Professor at Radcliffe, Harvard University, natural sciences and mathematics, "Connecting Engineering, Physics, Chemistry, Biology and Architecture Through Biomimetics"

**Seema Alavi**, William Bentinck-Smith Fellow, Jamia Millia Islamia (India), South Asian history, "Travel, Migration and the Wahabi Diaspora: The Turn Toward Arabic Learning and Culture in 19th-century South Asia"

**Kamal Aljafari**, Benjamin White Whitney Scholar and Radcliffe-Harvard Film Study Center Fellow, independent artist (Israel), film, video, sound, and new media, "A Cinematic Occupation"

**Uri Alon**, Grass Fellow, Weizmann Institute of Science (Israel), systems biology, "Design Principles of Biological Circuits"

**Cynthia Becker**, Suzanne Young Murray Fellow, Boston University, art history, "Afro-Islamic Art and Performance in Morocco: The Trans-Saharan History of the Gnawa"

**Jericho Brown**, American Fellow, University of San Diego, poetry, "The New Testament: Poems"

**Joy Calico**, Burkhardt Fellow, Vanderbilt University, musicology, "A Composer's Remigration: Postwar European Reception of Schoenberg's 'A Survivor from Warsaw'"

**Lucien Castaing-Taylor**, Joy Foundation Fellow, Harvard University, film, video, sound, and new media, "The Open: BeComing Animal"

**Siddhartha Deb**, Eugene Lang College, New School for Social Research, nonfiction and current issues, "Do You Know Who I Am? Stories of Wealth and Poverty from the New India"

**Emily I. Dolan**, Radcliffe Institute Fellow, University of Pennsylvania, musicology, "The Orchestral Revolution: Technologies of Timbre in the Long 18th Century"

**Debra Ann Fischer**, Edward, Frances and Shirley B. Daniels Fellow, San Francisco State University, astronomy, "Searching for Earths in the Alpha Centauri System"

**Robin Fleming**, Matina S. Horner Distinguished Visiting Professor, Boston College, European history, "Living and Dying in Early Medieval Britain"

**Peter Galison**, Walter Jackson Bate Fellow, Harvard University, history of science, "Building Crashing Thinking"

**Erin E. Gee**, Rieman and Baketel Fellow for Music, independent composer, music composition, "SU-0: Discontinuous Reflection: Mouthpiece XIII, Mouthpiece XIV, Mouthpiece XV"

**Ben J. Green**, Augustus Anson Whitney Scholar, Cambridge University (England), mathematics and applied mathematics, "Discrete Rigidity Phenomena"

**Jerry R. Green**,\*\* Suzanne Young Murray Fellow, Harvard University, economics, "Choice, Rationality and Welfare Measurement"

**Linda G. Griffith**, Harvard Stem Cell Institute Radcliffe Fellow, Massachusetts Institute of Technology, bioengineering, "New Approaches to Probing Autocrine Growth Factor Loops in Stem Cells"

**Leslie Hewitt**, Mildred Londa Weisman Fellow, independent artist, visual arts, project to be announced

**Daniel Andres Hojman**,\*\* Katherine Hampson Bessell Fellow, Harvard University, economics, "Choice, Rationality and Welfare Measurement"

**Alison Knowles**,\* Frieda L. Miller Fellow, independent artist, visual arts, "Fluxus Around the Clock"

**Roy Kreitner**, Lillian Gollay Knafel Fellow, Tel Aviv University Faculty of Law (Israel), legal history, "From Promise to Property, from Populism to Expertise: The Political Career of the Dollar, 1862-1913"

**Elizabeth Dyrud Lyman**, Jeanne Rosselet Fellow and Bunting Fellow, Harvard University,

(See *Radcliffe*, next page)

# Radcliffe

(Continued from previous page)

English literature, "A History of Stage Directions"  
**James Mallet**, Helen Putnam Fellow, University College London (England), evolutionary and organismic biology, "Species and the Ecology and Evolution of Biological Diversity"

**Andrea R. Nahmod**,\*\*\* Sargent-Faulfellow, University of Massachusetts at Amherst, mathematics and applied mathematics, "Dispersive Wave Phenomena from a Nondeterministic Viewpoint"

**Rachel Ollivier**,† École Normale Supérieure (France), mathematics and applied mathematics, "Representations of p-adic Reductive Groups in Characteristic p"

**Heather Paxson**, Mary I. Bunting Institute Fellow, Massachusetts Institute of Technology, social and cultural anthropology, "Crafting American Artisanal Cheese: Economies of Sentiment, Ecologies of Production"

**Ann Pearson**, Radcliffe Alumnae Fellow, Harvard University, Earth and planetary sciences, "Investigating the Deep Biosphere"

**Kathleen Anne Peterson**, Evelyn Green Davis Fellow, Deep Springs College, poetry, "Strange Litany"

**Jennie E. Pyers**, Marion Cabot Putnam Memorial Fellow, Wellesley College, developmental psychology, "The Acquisition of Spatial Language in American Sign Language: Understanding the Ties to Cognitive Development"

**Agustín Rayo**, Burkhardt Fellow, Massachusetts Institute of Technology, linguistics, "Language as Decision-Making"

**Ravit Reichman**, Lisa Goldberg Fellow, Brown University, English literature, "Dispossession: Property and Loss in Modernist Literature and Law"

**Leonard Retel Helmrich**, David and Roberta Logie Fellow and Radcliffe-Harvard Film Study Center Fellow, Scarabeefilms (Netherlands), film, video, sound, and new media, "Position of the Stars"

**Claire Margaret Roberts**, The Australian National University/The Powerhouse Museum (Australia), Asian art history, "The History of Photography in China and the Hedda Morrison Archive at Harvard-Yenching Library"

**Leigh Handy Royden**, William and Flora Hewlett Foundation Fellow, Massachusetts Institute of Technology, Earth and planetary sciences, "Plate Tectonics: Thinking from the Top Down"

**Russ Rymer**, The Carl and Lily Pforzheimer Foundation Fellow, Massachusetts Institute of Technology, nonfiction and current issues, "Out of Pernambuco: Music, Craft, and a Disappearing Tree"

**Alex Samorodnitsky**, Hebrew University of Jerusalem (Israel), computer science, "Some Properties of Boolean Functions"

**Amy Sillman**,† Constance E. Smith Fellow, independent artist, visual arts, project to be announced

**Nancy J. Smith-Hefner**, Hrdy Fellow, Boston University, social and cultural anthropology, "Muslim Youth: Gender, Sexuality and Public Piety in Indonesia's New Middle Class"

**Reuven Snir**, Haifa University (Israel), cultural studies theory and practice, "'Arabs of the Mosaic Faith': The Participation of Jews in Modern Arab Culture"

**Gigliola Staffilani**,\*\*\* Elizabeth S. and Richard M. Cashin Fellow, Massachusetts Institute of Technology, mathematics and applied mathematics, "Dispersive Wave Phenomena from a Nondeterministic Viewpoint"

**Godfried Theodore Toussaint**, Emeline Bigelow Conland Fellow, McGill University (Canada), computer science, "Phylogenetic Analysis of the Musical Rhythms of the World"

\*fall semester

\*\*economics cluster

\*\*\*mathematics cluster

†spring semester



The Radcliffe Institute celebrates the accomplishments and commitment of distinguished alumnae with the 2009 Alumnae Awards.

## Radcliffe recognizes its distinguished alumnae

The Radcliffe Institute for Advanced Study at Harvard University has announced the 2009 Radcliffe Alumnae Award winners, who will be honored at the Radcliffe Awards Symposium on June 5 from 10:30 a.m. to noon at the American Repertory Theater's Loeb Drama Center. The event will also feature a panel discussion by alumnae award winners, titled "Seeking Harmony in a Tumultuous World: How Does an Individual Make a Difference?"

The Alumnae Award winners will be honored at the Radcliffe Awards Symposium on June 5 from 10:30 a.m. to noon at the American Repertory Theater's Loeb Drama Center, located at 64 Brattle St. The event will also feature a panel discussion by alumnae award winners, titled "Seeking Harmony in a Tumultuous World: How Does an Individual Make a Difference?"

The award winners are distinguished alumnae who have extended the boundaries of knowledge in a wide range of fields and helped ensure the presence of women at the forefront of scholarship and research. The Radcliffe Institute celebrates their accomplishments and commitment to Radcliffe.

Following are the 2009 Radcliffe alumnae award winners in their respective categories. More extensive biographical information on the winners is available at [www.radcliffe.edu/alumnae](http://www.radcliffe.edu/alumnae).

### Alumnae Recognition Award recipients

Alumnae Recognition Awards are presented to Radcliffe and Harvard alumnae "whose lives and spirits exemplify the value of a liberal arts education." There are three 2009 Alumnae Recognition Award recipients:

**Sarah P. Chayes** is an activist, journalist, and photographer who began her reporting career freelancing from Paris for The Christian Science Monitor and other outlets. From 1996 to 2002, she was a Paris reporter for National Public Radio, earning the 1999 Foreign Press Club and Sigma Delta Chi awards for her reporting on the Kosovo War. She has also reported from the Balkans and the Middle East and covered the International War Crimes Tribunal and the European Union. After reporting on the fall of the Taliban in Afghanistan, Chayes left journalism in 2002 to help rebuild the country. She served as field director for the non-profit group Afghans for Civil Society, ran a

dairy cooperative, and, in 2005, established another cooperative with the aim of discouraging opium production. Chayes is the author of "The Punishment of Virtue: Inside Afghanistan After the Taliban" (Penguin, 2006) and has published articles in the Boston Globe, The New York Times, and other publications. She graduated from Harvard College in 1984, earning the Radcliffe College History Prize.

**Raya S. Dreben** is an associate justice on recall of the Massachusetts Appeals Court. She was the first law clerk of U.S. District Court Judge Bailey Aldrich. After being a Bigelow Fellow at the University of Chicago Law School, she engaged in private practice at several firms. She joined the law firm of Palmer & Dodge (now Edwards & Angel Palmer & Dodge) in 1964, and in 1969, she and another associate became the first female part-time partners at a major Boston law firm. Dreben taught copyright law at Harvard Law School for a number of years while at Palmer & Dodge and was appointed to the Appeals Court by former Massachusetts Gov. Michael Dukakis in 1979. She has served as trustee of several organizations, including Radcliffe College, and has been a cherished mentor to men as well as women. Dreben received the Haskell Cohn Distinguished Judicial Service Award from the Boston Bar Association. She graduated from Radcliffe College *magna cum laude* in 1949 and from Harvard Law School *cum laude* in 1954.

**Clara St. John Longstreth** is the music director and founder of the New Amsterdam Singers, a critically acclaimed amateur chorus in New York City. The New Yorker has called her "one of the more imaginative choral programmers around." She has served on the faculty of Rutgers University and has taught music at private schools. Longstreth has been the guest conductor for performances with the Limón Dance Company, the Messiah Sing-In at Avery Fisher Hall, the New York Choral Society, the Riverside Church Choir, and the West Village Chorale. She has led the New Amsterdam Singers in 15 tours to Europe and South America, adjudicated the New Jersey High School Choral Festival, and given a lecture-demonstration at the American Choral Directors Eastern Division Conference. Longstreth studied government at Radcliffe, graduating *cum laude*, and studied choral conducting with G. Wallace Woodworth at Harvard College. She earned a master's in choral conducting from the Juilliard School, where she studied under Richard Westenberg.

### Radcliffe Fellowship Award recipient

The Radcliffe Fellowship Award (formerly the Graduate Society Award) is presented to alumnae/i of Radcliffe's fellowship programs for outstanding contributions to

their professions. There is one inaugural Radcliffe Fellowship Award recipient:

**Lisa Randall** is a professor of physics at Harvard University, the first woman theoretical physicist to gain tenure at Harvard. She has also served on the faculties of the Massachusetts Institute of Technology and Princeton University, where she was the first tenured woman in the Department of Physics. She is a member of the American Academy of Arts and Sciences and the National Academy of Sciences, and a fellow of the American Physical Society. She was a 1991 recipient of a Radcliffe Graduate Society Award. Randall is the author of the acclaimed book "Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions" (Ecco, 2005), partly written at the Radcliffe Institute. She has edited the Annual Review of Nuclear and Particle Science and Nuclear Physics B; she currently edits the Journal of High Energy Physics and is on its advisory board. When she was a senior at Stuyvesant High School, Randall won the Westinghouse Science Talent Search. As an undergraduate at Harvard College, where she was Phi Beta Kappa, Randall was awarded a John Harvard Scholarship and the David J. Robbins Prize, and was named an Elizabeth Cary Agassiz Scholar and Radcliffe Scholar.

### Jane Rainie Opel '50 Young Alumna Award recipient

The eponymous Jane Rainie Opel '50 Young Alumna Award, named for the former Radcliffe College Alumnae Association executive director, is presented to an alumna in the 10th reunion class for an outstanding contribution to the advancement of women, her profession, or the Radcliffe Institute. There is one 2009 Jane Rainie Opel '50 Young Alumna Award recipient:

**Bonnie Tsui** is a freelance writer and travel journalist. She has lived in Australia, studying at the University of Sydney and writing for the Sydney Morning Herald, and won a Radcliffe Traveling Fellowship to New Zealand. Tsui has written for "Let's Go" travel guides, has been a contributing editor to the magazine "blue," and an editor at Travel + Leisure. She also contributes frequently to The Boston Globe and The New York Times. Tsui contributed to "The New York Times Practical Guide to Practically Everything" (St. Martin's Press, 2006) and edited "A Leaky Tent Is a Piece of Paradise: 20 Young Writers on Finding a Place in the Natural World" (Sierra Club Books/University of California Press, 2007). She is also the author of "She Went to the Field: Women Soldiers of the Civil War" (Globe Pequot Press, 2003) and "American Chinatown: A People's History of Five Neighborhoods" (Free Press, 2009). In 2007, she won the Lowell Thomas Award for travel journalism. Tsui graduated *magna cum laude* from Harvard College in 1999 with a degree in English and American literature and language.

### Distinguished Service Awards recipients

Distinguished Service Awards recognize outstanding service to Radcliffe. The 2009 Distinguished Service Award winners are **Louise Fisher Abbot '49**; **Judith Kapstein Brodsky '54**; **Sheila Malone King '54**; **Stephanie Lang Martin '59**; and **Marie Louise (M.L.) Scudder '59**.

The Radcliffe Institute for Advanced Study at Harvard University is a scholarly community where individuals pursue advanced work across a wide range of academic disciplines, professions, and creative arts. Within this broad purpose, the institute sustains a continuing commitment to the study of women, gender, and society.

For more information about the Radcliffe Institute for Advanced Study, visit [www.radcliffe.edu](http://www.radcliffe.edu).

# Tradition rings out

*On Commencement Day, bells will peal in chimes of celebration*

A peal of bells will ring throughout Cambridge next week, on June 4. For the 21st consecutive year a number of neighboring churches and institutions will ring their bells in celebration of the city of Cambridge and of Harvard's 358th Commencement Exercises.

In a bow to earlier history when bells of varying tones summoned people from sleep to prayer, to work, or to study, this joyful noise will begin at 11:30 a.m., just after the sheriff of Middlesex County declares the

Commencement Exercises adjourned. The bells will ring for approximately 15 minutes.

The bell in the Memorial Church tower, for years the only bell to acknowledge the festival rites of Commencement Day, will be joined by the pealing of a set of new bells replacing the 17-bell Russian *zvon* of Lowell House that was returned in 2008 to the Danilov Monastery near Moscow, the bell of the Harvard Business School, the Harvard Divinity School bell in Andover Hall, the historic "Harvard Chime" of Christ Church

Cambridge, and the bells of the Church of the New Jerusalem, First Church Congregational, First Parish Unitarian Universalist, St. Paul Roman Catholic Church, St. Peter's Roman Catholic Church, University Lutheran Church, Holy Trinity Armenian Apostolic Church, First Baptist Church, and St. Anthony's Church.

Other churches or institutions interested in participating in this happy tintinnabulation are invited and encouraged to do so.

— Cynthia Rossano

## Tips to help you enjoy Commencement, come rain or shine



File Matt Craig/Harvard News Office

As always, the Harvard University Band will supply musical support on Commencement Day.

### Commencement schedule

On Commencement morning the Harvard gates will open at 6:45 a.m. Parents and guests of degree candidates who have tickets to attend the Morning Exercises should plan their arrival accordingly. All guests will be required to show their tickets at the gates in order to enter Tercentenary Theatre. All guests should be seated by 8:30 a.m. for the start of the academic procession, which begins at 8:50 a.m.

**8 a.m.** Senior Chapel in the Memorial Church begins.

**8:05 a.m.** Formation of advanced-degree candidates in the Sever Quadrangle.

**8:15 a.m.** Senior Chapel ends. Formation of seniors in the Old Yard.

**8:30 a.m.** Alumni Procession begins.

**8:35 a.m.** Procession of advanced-degree candidates begins.

**8:50 a.m.** Academic Procession begins. President's Division begins processing through the open ranks of seniors. All alumni have ended their procession and have taken their seats in the theater.

**9:25 a.m.** President's Division ends its procession into the theater.

**9:45 a.m.** Commencement ceremony begins.

**11:30 a.m.** Commencement ceremony ends.

**Noon** Luncheons and diploma-awarding ceremonies at the undergraduate Houses, and graduate and professional Schools.

**1:30 p.m.** Formation of the Alumni Procession in the Old Yard.

**1:45 p.m.** Alumni Procession begins.

**2:30 p.m.** The annual meeting of the Harvard Alumni Association in Tercentenary Theatre begins.

**4:15 p.m.** The annual meeting of the Harvard Alumni Association ends.

### Visitor tips and services

The following services will be in effect at the University on Commencement Day, June 4.

#### Restrooms

Restrooms for the general public are located in Weld, Thayer, and Sever halls. These restrooms are wheelchair accessible.

#### First aid stations

First aid stations will be situated in the following locations: Weld Hall (room 11); Thayer Hall (room 106); and Sever Hall (room 112).

#### Water stations

Clearly marked water stations will be located along the perimeter of Tercentenary Theatre. The stations will be located on the Widener Library steps, at Weld Hall (north porch and northeast entrance), Thayer Hall (south steps), Sever Hall (main entrance), and at the College Pump (near Hollis Hall).

#### Large-screen viewing

Large-screen televised viewing of the Morning Exercises will be available for ticketed guests at the Science Center, the undergraduate Houses, and most of the graduate and professional Schools.

#### Televised viewing

Morning Exercises and the afternoon Annual Meeting of the Harvard Alumni Association will be televised live for guests who are unable to attend. The broadcast times are 9 to 11:30 a.m. and 1:45 to 4:30 p.m. These events will be aired on Comcast Cable (Channel 283 in Cambridge/Greater Boston area and Channel 12 in Boston/Brookline).

#### Webcast viewing

A live Webcast of the day's events can be viewed at the following Harvard sites:

[www.commencementoffice.harvard.edu](http://www.commencementoffice.harvard.edu),  
[www.commencement.harvard.edu](http://www.commencement.harvard.edu), or  
[www.uis.harvard.edu](http://www.uis.harvard.edu).

#### Video services

Broadcast-quality, multiple-camera DVD and VHS recordings of Commencement Morning Exercises and the afternoon Annual Meeting of the Harvard Alumni Association held in Tercentenary Theatre will be available. Class Day exercises (held the afternoon of June 4) will also be available. Recordings of the morning and afternoon Commencement Day activities will include commentary during the processions. Single-camera recordings are made of the diploma ceremonies at all of the Houses

and some of the graduate/professional Schools.

To purchase videos, or for more information, contact Commencement Video at (617) 884-6000; for audio only, call the Media Production Center at (617) 495-9440.

#### Parking

Parking at the University during Commencement Week is extremely limited. Please view updated information regarding Commencement parking at [www.uos.harvard.edu/transportation/parking/special\\_event\\_parking.shtml#comweek-park](http://www.uos.harvard.edu/transportation/parking/special_event_parking.shtml#comweek-park).

#### In case of rain

The Morning Exercises will be held rain or shine in Tercentenary Theatre.

**The Alumni Procession begins promptly at 8:30 a.m.**

File Justin Ide/  
Harvard News Office





**A CAMPS representative interviews a member of the Mai Mai militia to better understand sexual violence as a weapon of war.**

Harvard researchers probe the roots of 'crimes against humanity'

# Talking terror

*This is one in an occasional series of articles examining the international work of Harvard faculty and researchers. It is part of a multimedia project available on the Harvard World Media Web site.*

**By Alvin Powell**  
*Harvard News Office*

The two men sit close, knees almost touching, in a mud-walled hut in the Congolese village of Katokota.

The thick grass roof mutes the sound of the falling rain in the room's dim interior. Surrounded by dark earthen walls and lit only by the cloudy day's gray window light, the scene has an intimate feel.

As if afraid to break the spell, the two men talk in low voices — low voices for serious subjects.

One man, an interviewer, asks about the other's children, about his native tongue. He starts with easy questions before getting to the heart of the issue: horrific violence visited on women in this eastern region of the Democratic Republic of the Congo (DRC). The United Nations estimates that 200,000 women were raped here over the past 12 years, 18,000 during 2008's first nine months alone. The rapes have been so widespread and brutal that U.N. officials have described them as the worst in the world and tantamount to crimes against humanity.

The interviewers are Congolese social workers collaborating with the Harvard Humanitarian Initiative (HHI) through a partnership with a local nonprofit, the Centre d'Assistance Médico-Psychosociale (CAMPS). Together, the two organizations are seeking to understand the violence against women that hangs like a toxic cloud over a huge swath of this enormous country in Africa's midsection.

The region, rich in mineral wealth and tragedy, has been the stage for one of the new century's most awful displays of humankind's capacity for inhumanity. Using rape as a weapon of war, dozens of armies and rebel and militia groups regularly engage in violent assaults and sexual slavery that touch women of all ages. Often combined with mutilation and murder of family members, these atrocities leave the women not

only physically injured, but emotionally bereft, sometimes pregnant or HIV-infected, and, in the region's still-traditional societies, outcast.

The DRC has long been a place of turmoil. Rebels backed by Rwanda and Uganda attacked the government in two separate wars that began in 1996 and 1998. The first toppled dictator Mobutu Sese Seko and resulted in the nation, then called Zaire, being renamed the Democratic Republic of the Congo. Mobutu's successor, Laurent Kabila, was assassinated in office in 2001. The latter clash, which involved eight nations and came to be known as "Africa's World War," resulted in 5.4 million deaths, largely from starvation and disease.

A 2002 peace treaty ended the conflict, but the resulting government remains too weak to project power into the DRC's eastern border region. Into the vacuum have stepped more than 20 armed groups struggling for power and control of the region's minerals: tantalum, tin, copper, and diamonds.

The plight of the eastern DRC's women is no secret. It has been the subject of front-page newspaper stories, it has become a major focus of a hospital in the Congolese city of Bukavu, and it has prompted an outpouring of condemnation from around the world.

But to solve a problem one must first understand it. And to understand the problem of rape in the DRC, one must understand not just the suffering women but also the men fighting the endless wars.

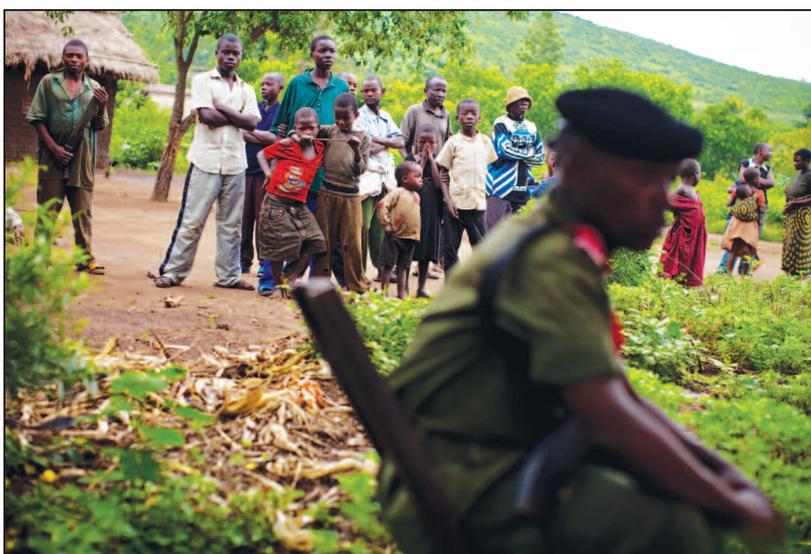
That truth occurred two years ago to Jocelyn Kelly, a Harvard School of Public Health (HSPH) graduate and research coordinator for HHI, an interfaculty program that applies the expertise of Harvard's various Schools to the world of disaster relief. Though it's easier to simply condemn the men responsible and turn one's attention to the women — whose needs are almost beyond imagination — it is not enough, Kelly realized. The men, brutalized themselves, living in the forest, and often starving, are at the root of the problem and so hold its key.

"By demonizing them, you make them incomprehensible," Kelly said. "Instead of saying these men are demons and how can they do these terrible things, we say, these are men, and why are they doing things that should never happen?"

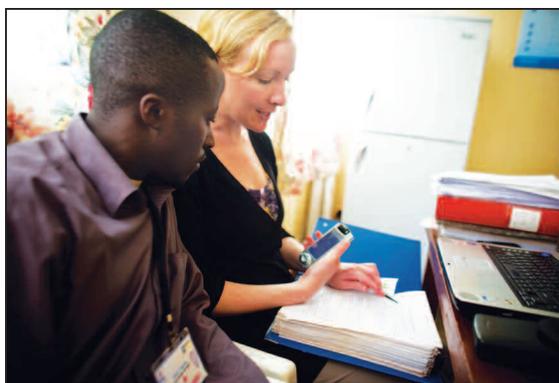
That belief is what brought Kelly and a small contingent from HHI and CAMPS to the village of Katokota, just a short distance from the Rwandan border in the eastern DRC. The visit, which occurred in February 2009, drew dozens of soldiers from the Mai Mai-Shikito militia to Katokota to be interviewed. The Mai Mai-Shikito is one of roughly 13 homegrown Mai Mai groups, originally formed to fend off attacks on their homes by other soldiers but which have themselves been implicated in horrible sexual assaults.

The day was a strange, silent one in Katokota. Almost two dozen soldiers sat on long benches under billowing tarps that kept the rain off, talk-

*(See Congo, page 16)*



**Mai Mai militia members have been implicated in horrific gender-based violence. Inside Panzi Hospital, HHI's Jennifer Scott (right) of the Beth Israel Deaconess Medical Center works with a database of raped and abused women.**



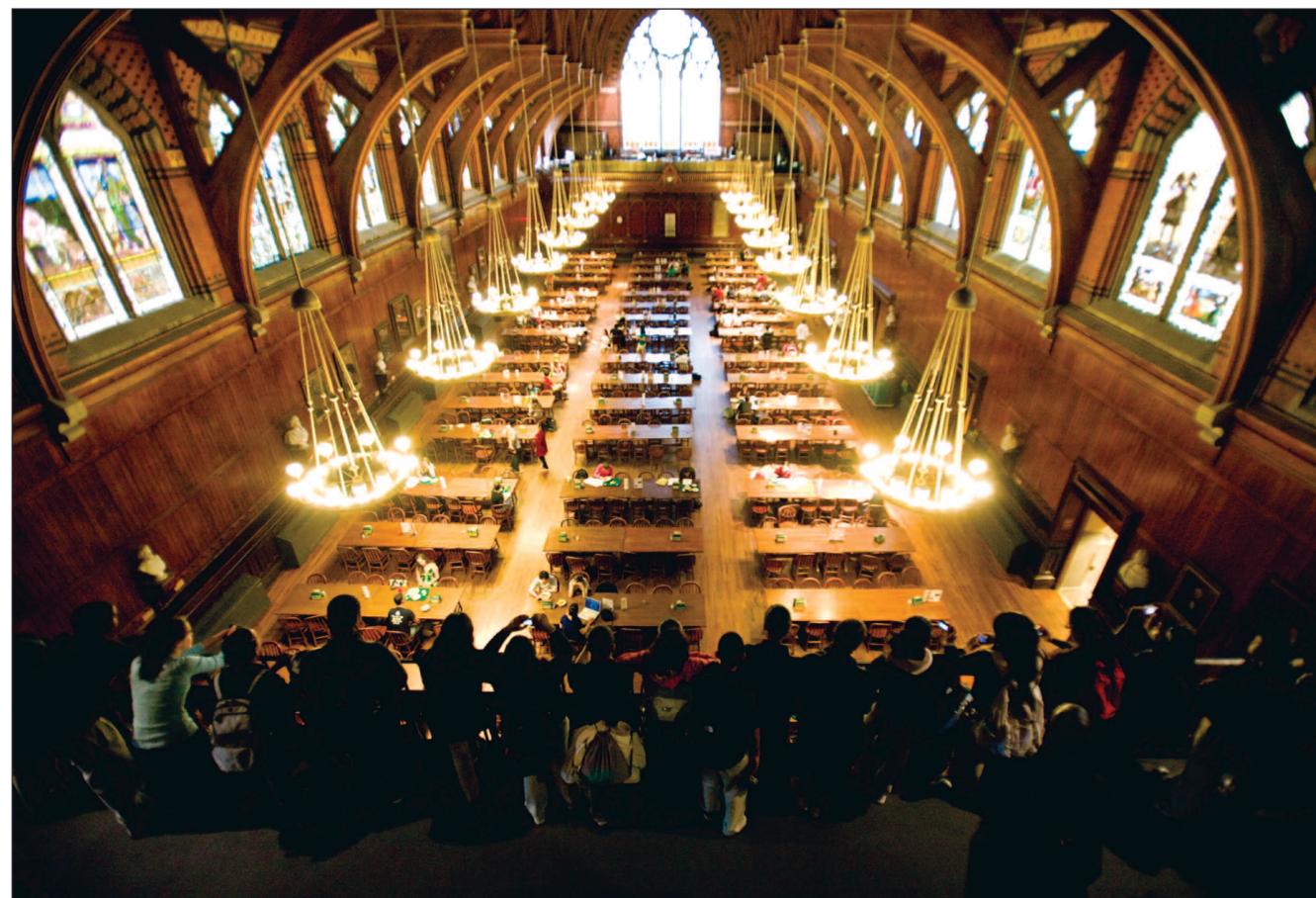
# From the South Bronx to Harvard University A glimpse into the future



From the top of William James Hall, Adrian Portela (above) gets a sweeping view of Harvard and environs. At a morning meeting about college careers at the CGIS Knafel Building, KIPP students Jasmine Murray (right, from left), Georely Gerosen, Simone Brown, and Kate Davila soak in every word. A group of KIPP students (below) gets a quick glimpse into a Wigglesworth Hall dorm room.



**Slide show**  
Fueling college dreams  
www.news.harvard.edu/  
multimedia/flash/0905  
28\_kipp.swf



On their tour of Memorial Hall, the KIPP students get a bird's-eye view of Annenberg Hall.

Photos Stephanie Mitchell/Harvard News Office

By Gervis A. Menzies Jr.  
*Harvard News Office*

Five years from now, at high school graduation, the memory of their first visit to Harvard might not be as vivid, but it's one that will last. The 40 young, inquisitive students who flocked to Cambridge on May 20 got a brief glimpse of a university with three and a half centuries of history — and a reminder of why they are pushed to work so hard in school.

For this group of 40, hailing from South Bronx, N.Y., the visit may have taken them more than 200 miles from home, but the reason these seventh-graders in navy polo shirts emblazoned with the letters "KIPP" were invited was to illustrate that, for them, Harvard — or any college for that matter — isn't really all that far away.

KIPP, which stands for the Knowledge Is Power Program, was founded in 1994 by Mike Feinberg and Dave Levin — two ambitious Ivy League graduates who, upon joining the ranks of Teach for America, realized they wanted to make real progress in solving the problems of educational inequality in America's low-income communities. So Feinberg and Levin created a fifth-grade public school program in inner-city Houston that has since expanded to a network of 66 charter schools (including one in the South Bronx), serving more than 16,000 students in 19 states from prekindergarten to high school, with a focus on preparing students in underserved communities for success in high school, college, and life.

The trip to Harvard was hosted by Weatherhead Center for International Affairs Executive Director Steven Bloomfield, who for five years has engaged KIPP seventh-graders, giving them a brief glimpse of where they could be if they put in the hard work.

After a New York Times article inspired Bloomfield and his wife to visit the South Bronx school, he was so impressed by the program that he asked KIPP to make Harvard a stop on its annual end-of-the-year New England trip. "We were entirely intrigued and in love with the place," Bloomfield says.

Now in his fifth year of hosting the school, Bloomfield invites his current and former freshmen advisees as well as Harvard staff and faculty from around campus to talk with the visitors about their "Harvard experience." The information, encouragement, and even inspiration the speakers provide makes this visit much more than a simple tour.

"When you see [the KIPP students] you get a sense how full of life, appreciation, and curiosity they are," says Bloomfield. "KIPP has this really great formula in reaching students and their parents and so they're worth every bit of investment that an institution like ours can make — not on behalf of the Harvard brand necessarily, but on behalf of education."

The wide eyes, cheek-to-cheek grins, and thoughtful questions from the KIPP students spoke not only of their appreciation for the trip, but also of how special they are.

While only about a quarter of high school graduates in the South Bronx plan to go to college, almost 90 percent of the kids who start KIPP in fifth grade have gone on to higher education. And of those who do go to college, nearly three-fourths of the students graduate.

Davina Wu, a music teacher in her fifth year at KIPP, says, "The minute, in fifth grade, when they walk through the door, we say to them, 'You're going to college. You're going to college.'"

And although their walk around campus is intended to be special for the students, Bloomfield tries to convince them that they are special too — and that for them, making it to Harvard is not unattainable. "It's not really about the buildings and the green grass so much as the experience and the opportunity," says Bloomfield.

"College anywhere is great, but if they come here and they see Harvard, and meet students and see their own people reflected in the faculty and staff, it helps them want to go to college," says Wu. "They may not all end up at Harvard ... but to have them see what college could be like is very powerful."

"The whole idea is not, 'This is Harvard in all of its grandeur,'" says Bloomfield. "The idea is, 'This is college. You need to do it too.'"



KIPP's Nianasha Jackson (above, left) and Steven Bloomfield (above) of the Weatherhead Center, pay attention at the morning meeting in Knafel. Later that day, Kate Davila (from left), Karolina Heleno, Nshaney Shiell, and others listen to Bloomfield talk about writing classes.



The raised hands of Pamela Munoz (above, from left) and Julisa Esparza are an indication of their enthusiasm. Shayla King (left) and Edwin Ortiz of DRCLAS pass through a conference room in William James Hall.



# Congo

## Covering the Congo

Researchers from the Harvard Humanitarian Initiative (HHI) have been working in the Democratic Republic of the Congo for several years examining the roots of the violence against women that has plagued this war-torn region.

A team from the Harvard News Office traveled with HHI researchers in February to document their ongoing work. The full package of videos, photos, and stories is available on the Harvard World Media Web site at [www.news.harvard.edu/hwm](http://www.news.harvard.edu/hwm). Stories and photos from the project will run periodically in the Harvard Gazette.

## Harvard World Media

[www.news.harvard.edu/hwm/congo/](http://www.news.harvard.edu/hwm/congo/)

### Men with guns (video 2:36)



### L'Incident (video 3:17)



### Damages of war (video 3:27)



## The researchers' stories

[www.news.harvard.edu/hwm/congo/](http://www.news.harvard.edu/hwm/congo/)

### Michael VanRooyen:

Rebuilding places that peace abandoned



**Jocelyn Kelly:** Seeking the whole picture of Congo violence



**Jennifer Scott:** Being there for atrocity's survivors



Justin Ide/Harvard News Office

**At Panzi Hospital, members of HHI present their work to the resident doctors and administration.**

*(Continued from page 13)*

ing among themselves in subdued tones. Another half-dozen in full uniform, automatic weapons ready, paced around the perimeter of the small compound of beaten earth.

Villagers gathered to silently watch the proceedings: old men, women, and groups of children, dirty in tattered clothing. Though they were familiar with the men — some lived in the area — the villagers knew something unusual was happening.

Two Swahili-speaking interviewers from CAMPS worked inside a nearby hut, while Kelly and HHI Co-Director Michael VanRooyen, associate professor at HSPH and at Harvard Medical School and director of Brigham and Women's Hospital's Division of International Health and Humanitarian Programs, talked to Mai Mai commanders and advised CAMPS national coordinator Justin Kabanga about the conduct of the interviews.

VanRooyen and Kabanga said the partnership benefits both their organizations. CAMPS's deep roots in the community and connections in the military command structure are essential for HHI researchers to do their work. HHI researchers, on the other hand, provide analysis of the problems affecting the people CAMPS seeks to assist.

"We've been so busy, we haven't had the time to do research," Kabanga said. "The scientific collaboration with HHI has been indispensable for beginning to understand the complexity of the problem."

Information gathered in the interviews is now being analyzed. Still, with 25 interviews complete, Kelly said a picture of the soldiers' lives is emerging. Responses indicate that the men already have conversations about sexual violence and that they get their news and information predominantly from the radio. The responses also reveal where the men go to seek social support and what barriers, such as transportation costs, make it difficult for them to obtain help.

"We've asked a lot of soldiers why they joined. ... They tell you unimaginably painful stories where they watched their father die or they watched their brother die," Kelly said. "I don't think I've ever seen a clearer example of how

violence feeds on itself."

VanRooyen knows Kelly is onto something special.

By daring to go to remote Congolese villages — where few researchers venture — and then daring to ask armed men about atrocities they or their comrades have committed, Kelly is not only showing great personal courage, she is collecting data that exists in few other places.

"These are active militia who are in the middle of it still," VanRooyen said. "The stuff she's doing... everyone wants to know about it: the U.N., the State Department."

Using the information generated by HHI, VanRooyen said, aid groups, governments, and nonprofit organizations can better design programs to meet particular needs — or even decide whether to create a program in the first place.

Information, of course, is HHI's coin in trade. The founders, VanRooyen and Jennifer Leaning, professor of the practice of global health at HSPH, started the organization in 2005 with the belief that the collection and analysis of data could help improve humanitarian responses in man-made and natural disasters around the world.

Though the organization also has ongoing projects in Sudan's Darfur region, in Chad, and in several other trouble spots, VanRooyen said the cluster of projects in the Congo provides a team-based model for how HHI would like to approach certain key issues such as gender-based violence.

### An oasis for abused women

Even as Kelly was talking to militia leaders in the compound at Katokota, another HHI researcher was a two-hour drive north, at Panzi Hospital in the provincial capital of Bukavu. Jennifer Scott, a resident in gynecology and obstetrics at Beth Israel Deaconess Medical Center (BIDMC), was attacking the same problem from a different angle.

HHI's research team is taking a multipronged approach toward sexual violence against women in the DRC. The main focus for the two-year-old effort has been Panzi Hospital, a general hospital founded in 1999 that specializes in treatment of the survivors of sexual violence.

Panzi Hospital founder Denis Muk-

wege said many of the women suffer not only emotional problems from the rapes, but also physical injuries. Women are sometimes mutilated during the attacks or are raped with bottles, sticks, or even knives, causing tears between the vagina and the bladder, or between the vagina and the anus. These tears, called *fistulas*, allow urine or feces to leak from the body, making the women incontinent. The fistulas can only be treated with surgery.

HHI's work at Panzi Hospital began with a clinical collaboration that brought high-level medical support to the hospital. Administered through Harvard-affiliated Brigham and Women's Hospital, the clinical work was soon joined by a Harvard-organized research effort focused on the records of patients who had suffered sexual violence. Researchers began analyzing the information included in thousands of intake forms, held in row after row of thick binders that fill a wall in the office of PMU Interlife, a Swedish aid organization that is assisting Panzi and that has become another important local partner for HHI.

Mukwege told one story that illustrates the assaults' viciousness and their societal consequences. A pastor's wife, who had become pregnant after being publicly raped by an armed group, came to the hospital to give birth. During the attack, the soldiers also raped her two daughters, shot her two sons when they tried to intervene, and then killed the pastor.

Her remaining family refused to let her come home unless she abandoned the child.

"It's terrible for the woman but also for this young child," Mukwege said. "It destroys all the family connections. Rape is not just physical destruction, it's a destruction of the psychology, not only of the victim but of her family and all her relations. Finally, it's a destruction of the entire society."

HHI researcher Susan Bartels, associate director of BIDMC's International Emergency Medicine Fellowship, began the records review in 2007. With assistance from Scott, Kelly, and Sadia Haider, BIDMC's division director of family planning, the study has already produced results that describe more

*(See Congo, next page)*

## Congo

(Continued from previous page)

than 1,000 assaults that took place in 2006. The researchers have also conducted a survey of 225 women and mounted an effort to collect qualitative data through focus groups conducted with both women and men from the community.

Together, the statistical data and the focus groups paint a picture of what's going on outside the hospital's chain-link fence. The average age of women who were attacked in 2006 was 36, but girls as young as 3 and women as old as 80 were also assaulted. There is no safe haven, as more than half of the attacks happened at home, at night.

Three-quarters of the women were gang-raped and just over a third were abducted during the attack. Nearly two-thirds said the attackers wore uniforms of some type, and 11 percent said a husband or child died or disappeared as a result of the attack.

The region's poverty and lack of access to medical care was reflected in the statistics and narratives. The average time from attack to presentation at Panzi Hospital was 16 months. In explaining why they waited so long, almost half the women said they had to travel more than a day to reach medical services. Many couldn't afford the transportation, while others didn't know the services existed. Still others said they didn't want people to know they were seeking sexual assault care.

The data show that the attacks' repercussions continue long after the violence ends. About 13 percent of women became pregnant from the rapes. Nearly one in four said they were forced to leave their families, while 6 percent said they were forced to leave their communities.

"Women are punished for being punished. They're kicked out of their own homes for being raped," Kelly said. "Women who are raped are no longer [considered] useful members of society and, without women, society disintegrates."

During their February visit, Scott, Kelly, and VanRooyen worked to expand the study of Panzi Hospital's patient records. The three met with officials from Panzi and PMU Interlife to solidify partnerships, and Scott and Kelly trained local Congolese data entry technicians so they would be able to enter information from almost 4,000 attacks that occurred in 2005, 2007, and 2008.

### An eye to the future

Though the records review is ongoing, that phase of the project is nearing its end. Despite that, VanRooyen said that HHI's work in the Congo will continue. Future projects are being considered that will focus on mining communities, on demobilized soldiers, and on children of rape, who are outcast and at risk. Data gathering on the victims of sexual violence may also continue at Panzi and elsewhere.

VanRooyen said the work with the military will also continue. The interviews so far are for a pilot study whose results can be evaluated and used to both seek funding and design follow-up studies. VanRooyen wants to expand the project to other military groups, such as the Congolese national army, Hutu fighters who banded together after the Rwandan genocide, and various splinter factions, some of whom are known to be particularly violent in their assaults.

VanRooyen, who has a large amount of experience working in conflict zones, from Somalia to Rwanda to Kosovo, acknowledged there is risk in working in troubled places like the DRC, but said it could be done, together with good local partners like CAMPS.

"You try to be smart about the places you go," VanRooyen said. "In general, if you listen to the news or the State Department reports, you'd never go to any of these places. But ... people are going to market every day, they're living every day, and if you're smart about the way you engage and go in with reputable organizations, you can go."

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*BPA, chemical used to make plastics, found to leach from polycarbonate drinking bottles into humans*

## Exposure may have harmful effects



File Matt Craig/Harvard News Office

**In 2008, Scott Elfenbein '11 (above) was part of a two-week study to determine if drinking from popular hard-plastic bottles increased levels of the chemical bisphenol A (BPA). The results of the study showed a two-thirds increase of BPA in the subjects' urine.**

By Todd Datz

*HSPH Communications*

A new study from Harvard School of Public Health (HSPH) researchers found that participants who drank for a week from polycarbonate bottles, the popular, hard-plastic drinking bottles and baby bottles, showed a two-thirds increase in their urine of the chemical bisphenol A (BPA).

Exposure to BPA, used in the manufacture of polycarbonate and other plastics, has been shown to interfere with reproductive development in animals and has been linked with cardiovascular disease and diabetes in humans.

The study is the first to show that drinking from polycarbonate bottles increased the level of urinary BPA, and thus suggests that drinking containers made with BPA release the chemical into the liquid that people drink in sufficient amounts to increase the level of BPA excreted in human urine.

In addition to polycarbonate bottles, which are refillable and a popular container among students, campers, and others, and are also used as baby bottles, BPA is also found in dentistry composites and sealants and in the lining of aluminum food and beverage cans. (In bottles, polycarbonate can be identified by the recycling number 7.)

Numerous studies have shown that it acts as an endocrine-disruptor in animals, including early onset of sexual maturation, altered development and tissue organization of the mammary gland, and decreased sperm production in offspring. It may be most harmful in the stages of early development.

"We found that drinking cold liquids from polycarbonate bottles for just one week increased urinary BPA levels by more than two-thirds. If you heat those bottles, as is the case with baby bottles,

### Study pdf

The study appears on the Web site of the journal *Environmental Health Perspectives* and is freely available at:

[www.ehponline.org/members/2009/0900604/0900604.pdf](http://www.ehponline.org/members/2009/0900604/0900604.pdf)

### Related story Undergrads volunteer for bottle BPA study

[www.news.harvard.edu/gazette/2008/05.15/09-nalgene.html](http://www.news.harvard.edu/gazette/2008/05.15/09-nalgene.html)

we would expect the levels to be considerably higher. This would be of concern since infants may be particularly susceptible to BPA's endocrine-disrupting potential," said Karin B. Michels, associate professor of epidemiology at HSPH and Harvard Medical School and senior author of the study.

The researchers, led by first author Jenny Carwile, a doctoral student in the Department of Epidemiology at HSPH, and Michels, recruited Harvard College students for the study in April 2008.

The 77 participants began the study with a seven-day "washout" phase in which they drank all cold beverages from stainless steel bottles in order to minimize BPA exposure. Participants provided urine samples during the washout period. They were then given two polycarbonate bottles and asked to drink all cold beverages from the bottles during the next week; urine samples were also provided during that time.

The results showed that the participants' urinary BPA concentrations increased 69 percent after drinking from the polycarbonate bottles. (The study authors noted that BPA concentrations in the college population were similar to

those reported for the U.S. general population.)

Previous studies had found that BPA could leach from polycarbonate bottles into their contents; this study is the first to show a corresponding increase in urinary BPA concentrations in humans.

One of the study's strengths, the authors note, is that the students drank from the bottles in a normal-use setting. Additionally, the students did not wash their bottles in dishwashers nor put hot liquids in them; heating has been shown to increase the leaching of BPA from polycarbonate, so BPA levels might have been higher had students drunk hot liquids from the bottles.

Canada banned the use of BPA in polycarbonate baby bottles in 2008 and some polycarbonate bottle manufacturers have voluntarily eliminated BPA from their products. With increasing evidence of the potential harmful effects of BPA in humans, the authors believe further research is needed on the effect of BPA on infants and on reproductive disorders and on breast cancer in adults.

"This study is coming at an important time because many states are deciding whether to ban the use of BPA in baby bottles and sippy cups," said Carwile. "While previous studies have demonstrated that BPA is linked to adverse health effects, this study fills in a missing piece of the puzzle — whether or not polycarbonate plastic bottles are an important contributor to the amount of BPA in the body."

The study was supported by the Harvard University Center for the Environment and the National Institute of Environmental Health Sciences Biological Analysis Core, Department of Environmental Health, HSPH.

Carwile was also supported by the Training Program in Environmental Epidemiology.

## Undergrads tackle issues in practical ethics

The Edmond J. Safra Foundation Center for Ethics has announced this year's recipients of the Lester Kissel Grants in Practical Ethics. Five Harvard College students have been awarded grants to carry out summer projects on a variety of important subjects. The students will use the grants to conduct research in the United States or abroad, as well as write reports, articles, or senior theses. Each grant supports living and research expenses up to \$3,000.

### The grant recipients

**Christine Baugh '10**, a history of science concentrator, will undertake research examining the Bayh-Dole Act of 1980, which allows universities to patent (and thereby profit from) research. As part of her senior thesis research, Baugh will examine the relationship between universities and the Bayh-Dole Act, asking more specifically whether the post-Bayh-Dole university is maximizing scientific profit at the possible cost of both social and scientific benefit.

**Jonathan Gould '10**, a social studies concentrator, will explore the positive rights tradition in America in light of a commitment to active democratic citizenship. Drawing on democratic theory, distributive justice, and American history, Gould will ask what economic prerequisites exist for democratic citizenship. He will argue that a robust conception of participatory and deliberative democracy requires citizens to have access to a minimum level of education, housing, and health care, and will articulate an outline of the civic approach to the American welfare state.

**Laura Kaplan '10**, a history concentrator, will explore the ethics of health care delivery in New Orleans during the Great Depression, and will investigate the ways in which national developments impacted a culturally distinct region; in other words, "Did the economic crisis and the New Deal affect the city government's recognition of a moral responsibility for the physical well-being of the city's inhabitants?" Kaplan will consider how different populations — hospital administrators, city policymakers, health professionals, and patients — constructed beliefs about the right to health care.

**Joanna Naples-Mitchell '10**, a social studies concentrator, will undertake senior thesis research in South Africa on approaches to transitional justice. She will interview teachers and students in an attempt to understand how the country's approach to post-conflict justice affects collective memory and stems the possibility of future atrocities. Naples-Mitchell hopes to answer the question: "What role does justice play in the process of transforming a society after conflict?"

**John Sheffield**, a graduating senior concentrating in social studies, is writing a critique of the ethical guidelines that govern research procedures for social and behavioral research. He will posit that the founding principles of current regulations often contravene the objectives of academic work in the social sciences, especially human rights research. His paper will discuss the concept of potential "harms" to subjects involved in corrupt, criminal, or other dangerous activities; ask why social concerns should guide researchers' decisions; and set out a new framework for regulating social and behavioral research that addresses these shortcomings.

The Lester Kissel grants are made possible by a gift from the late Lester Kissel, a graduate of Harvard Law School and longtime benefactor of Harvard's ethics programs. For further details about the Kissel grants, visit [www.ethics.harvard.edu](http://www.ethics.harvard.edu).

## GSE's Corriveau lands funding for research

The American Psychological Foundation (APF) Board of Trustees named Kathleen Corriveau, a student at the Harvard Graduate School of Education, as a 2009 APF Elizabeth Munsterberg Koppitz Fellowship recipient. The \$25,000 fellowship will support Corriveau's research during the 2009-10 academic year.

Corriveau has a Sc.B. in cognitive neuroscience from Brown University, an Ed.M. in mind, brain, and education from

Harvard, and an M.Phil. in education from the University of Cambridge. Her research investigates cues children use to determine whether an information source is trustworthy, examines how young children view a majority opinion as opposed to a minority opinion, and how they use this information when learning from adults. Corriveau has published multiple articles, made numerous conference presentations, and has served as an instructor

and teaching fellow at Harvard.

Werner Koppitz made a bequest of more than \$4 million to APF to support talented graduate students in child psychology in honor his late wife, Elizabeth Munsterberg Koppitz, Ph.D., a school and educational psychologist, who died of leukemia in 1983.

For more information, visit [www.apa.org/apf](http://www.apa.org/apf).

### Bouncing home



Kris Snibbe/Harvard News Office

As summer break approaches, Iman Taylor '12 carries some of her stuff, including a little trampoline, past Dudley House.

## Five grad students named Rappaport Fellows

Five Harvard graduate students — Meghan Haggerty, Devin Lyons-Quirk, Jessica Hohman, Antoniya Owens, and Michael Long — are among the 12 local graduate students who will spend the summer working in key state agencies as Rappaport Public Policy Fellows. The students were selected from almost 100 applicants and will be working in Boston's Office of Administration and Finance, Boston's Emergency Management Service, the Boston Public Schools, and the Commonwealth Connector the Massachusetts Office of Refugees and Immigrants.

Now in its ninth year, the Rappaport Public Policy Fellowship is a program that gives talented young graduate students from throughout the greater Boston area the opportunity to help public officials address key problems, and in doing so, learn more about how public policy is created and implemented. The fellowship is funded and administered by Harvard's Rappaport Institute for Greater Boston, which strives to improve the governance of the region by strengthening connections between scholars, students, officials, and civic leaders.

### Rappaport Public Policy Fellows Harvard Kennedy School

**Meghan Haggerty** will be working in the city of Boston's Office of Administration and Finance on improving internal operations of the constituent relationship man-

agement system in three pilot departments in the city of Boston. Haggerty, who has a bachelor's degree in social studies from Harvard College, was a neighborhood coordinator for the South End/Bay Village neighborhoods of Boston for Mayor Thomas M. Menino and was an intern for the Rappaport Institute for Greater Boston.

**Devin Lyons-Quirk** will be helping the leaders of Boston's Emergency Management Service (EMS) to develop a performance management strategy for the department. The project will involve setting basic performance goals and indicators, collecting relevant data, and analyzing the data to provide useful insights on Boston EMS performance. Lyons-Quirk, who has a bachelor's degree in psychology from Harvard College, was a senior consultant at Booz Allen Hamilton and was rescue squad EMS captain in the Arlington County Volunteer Fire Department in Virginia.

**Antoniya Owens** will be working at the Massachusetts Office of Refugees and Immigrants conducting research on immigrant-related topics, such as the impact of abolishing bilingual education in the state of Massachusetts on the academic outcomes of students with limited English skills. Owens, who has a bachelor's degree in economics from Mount Holyoke College, was a research associate at the New England Public Policy Center at the Federal Reserve Bank of Boston and for LECG's energy practice group in Cambridge, Mass.

### Harvard Medical School

**Jessica Hohman**, who is the first medical student to receive a Rappaport Public Policy Summer Fellowship, will be working for the Commonwealth Health Insurance Connector. Hohman, who has a bachelor's degree in chemistry and history from Miami University in Ohio and a master's degree in health policy, planning, and finance from the London School of Economics (LSE), is a visiting research officer at LSE Health.

### Harvard School of Public Health

**Michael Long**, a doctoral student, will work at the Boston Public Schools Department focusing on expanding and improving the school breakfast program. Long has a bachelor's degree in politics from Princeton University and a master's degree in public health from Yale University. He has been a research assistant at the Yale Rudd Center for Food Policy and Obesity and was an account supervisor at Cohn and Wolfe in San Francisco, Calif.

In addition to working full time for their host agencies, the fellows will get together weekly to learn more about key issues in the region and to discuss progress on their projects with each other. At many of these sessions, they are joined by 12 law students who are working in similar internships via a fellows program run by the Rappaport Center for Law and Public Service at the Suffolk University Law School.



'Physical State' features photographs by Damian Hickey, on view at the Holyoke Center May 29-June 24. Influenced by fashion photography and painting, Hickey uses the camera as a tool to photograph dreams and visions, which deal with themes of desire and loss from the point of view of female protagonists. There will be an opening reception on Friday, May 29, at 5 p.m. See exhibitions, page 20.

ABOVE: 'Stone Wall Ruin, Past and Future,' manipulated photograph, 2008

## Inside

### Deadlines

Important Calendar submission deadlines  
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### As seen by ...

At the HFA, foreign filmmakers look at the U.S.  
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—Performances take place at Loeb Drama Center Main Stage, 64 Brattle St., various times. Some dates have pre-play discussions and matinees; see Web site for full schedule. Tickets are \$25-79 general; \$10 off senior citizens. 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](http://www.amrep.org).

Opening Fri., Aug. 21—**"The Donkey Show"** is the ultimate disco experience — a crazy circus of mirror balls and feathered divas, roller skates, and hustle queens. Come party on the floor to '70s hits as the show unfolds around you. "The Donkey Show" tells the story of "A Midsummer Night's Dream" through great '70s anthems. Part of the "Shakespeare Exploded!" festival. Directed by Diane Paulus and Randy Weiner.

—Performances take place at Zero Arrow Theatre, corner of Arrow St. and Mass. Ave., times TBA. Tickets TBA. [www.amrep.org](http://www.amrep.org).

### Harvard-Radcliffe Summer Theatre & iONO!

Thu., May 28—Thu., June 18—**"DUETT"** is a play meets rock concert meets video installation meets horror show. Featuring original music from Incubus lead guitarist Michael Einzinger, "DUETT" brings your favorite bad guys from "Dangerous Liaisons" to reveal the silent pact of "reality" that global society unknowingly made once upon a time. Oscillating between the real and surreal, this bold adaptation offers a ruthless critique of elitism, religion, and the theater.

—Performances take place at Loeb Drama Center Experimental Theatre, 64 Brattle St., various times. Tickets are \$12 general; \$8 students/senior citizens. Harvard Box Office (617) 496-2222, [www.boxoffice.harvard.edu](http://www.boxoffice.harvard.edu).

Wed., June 24—Sat., June 27—**"A Workshop of Original Student Plays"** features two student-written plays, Alex Breaux's "Still Fighting It" and Jack Cutmore-Scott's "Breaking Up." Each performance will be followed by a talk-back with the director, playwrights, and actors.

—Performances take place at Loeb Drama Center Experimental Theatre, 64 Brattle St., 7:30 p.m. Tickets are \$8 general; \$6 students/Harvard ID/senior citizens. Harvard Box Office (617) 496-2222, [www.boxoffice.harvard.edu](http://www.boxoffice.harvard.edu).

## film

### 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

(Continued on next page)

## comedy

Sun., June 14—**"Fairly Unbalanced: Writing Political Satire in the Twenty-First Century."** (Cambridge Forum) A discussion of the power (and pitfalls) of writing in the age of Jon Stewart and Al Franken. Panelists include novelists Percival Everett and Lise Haines; comedian Jimmy Tingle, poet Baron Wormser, and members of the Harvard Lampoon. Writer Nurmuhemmet Yasin will be honored by PEN/New England. Cambridge Forum, 3 Church St., 4 p.m. Free and open to the public. [www.cambridgeforum.org](http://www.cambridgeforum.org).

## concerts

Fri., May 29—Sat., May 30—**"Natalie MacMaster."** (Harvard Box Office) Fiddle virtuoso Natalie MacMaster, backed by a five-piece band. Sanders Theatre, 8 p.m. Tickets are \$40/\$32/\$28. Harvard Box Office (617) 496-2222, [www.boxoffice.harvard.edu](http://www.boxoffice.harvard.edu).

Sun., June 7—**"First Sunday World Music Series."** (Art Museum) Emilian Badea, accordionist. Sackler Museum, 485 Broadway, 2 p.m. Free with price of admission. (617) 495-9400, [www.harvardartmuseum.org](http://www.harvardartmuseum.org).

Sun., June 14—**"Ligeti & Strauss, Concerto Competition Winner."** (Harvard Box Office) Concert by Boston Youth Symphony Orchestra, directed by Federico Cortese. Sanders Theatre, 3 p.m. Tickets are \$30/\$25 general; \$5 off students/senior citizens. Harvard Box Office (617) 496-2222, [www.boxoffice.harvard.edu](http://www.boxoffice.harvard.edu).

Sun., June 21—**"Piano Concert by Students of Dr. Bella Eugenia Oster."** (Harvard Box Office) Concert by students of European Academy of Music and Art Inc., under the tutelage of Bella Eugenia Oster. Program includes Chopin, Liszt, Schumann, and others. Sanders Theatre, 2 p.m. Free. Tickets are required; limit two per person. Harvard Box Office (617) 496-2222, [www.boxoffice.harvard.edu](http://www.boxoffice.harvard.edu).

Sun., July 5—**"First Sunday World Music Series."** (Art Museum) A celebration of Independence Day featuring music made in the U.S.A. Sackler Museum, 485 Broadway, 3 p.m. Free with price of admission. (617) 495-9400, [www.harvardartmuseum.org](http://www.harvardartmuseum.org).

Sun., Aug 2—**"First Sunday World Music Series."** (Art Museum) Concert of world music. Sackler Museum, 485 Broadway, 3 p.m. Free with price of admission. (617) 495-9400, [www.harvardartmuseum.org](http://www.harvardartmuseum.org).

## theater

**American Repertory Theater** Through Sun., June 7—**"Romance"** is David Mamet's courtroom farce that takes no prisoners in its quest for total political incorrectness.

—Performances take place at Loeb Drama Center Main Stage, 64 Brattle St., various times. Some dates have pre-play discussions and matinees; see Web site for full schedule. Tickets are \$25-79 general; students \$25 advance

purchase, \$15 day of performance. 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](http://www.amrep.org).

Thu., June 11—Sun., June 28—**"Sexual Perversity in Chicago"** and **"Duck Variations"** showcase Mamet's command of lightning-quick comic banter, while skewering the antics of young and old alike.

—Performances take place at Zero Arrow Theatre, corner of Arrow St. and Mass. Ave., various times. See Web site for full schedule. Tickets are \$25-39 general; \$10 off senior citizens. 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](http://www.amrep.org).

Wed., July 22—Sun., Aug. 2—**"Aurélia's Oratorio"** is Victoria Thierree Chaplin's dazzling display of stage illusion, inspired by the magic of music hall and circus. Starring her daughter Aurélia Thierree, granddaughter of Charlie Chaplin. Also featuring Jaime Martinez.

# Calendar

Events for May 28-August 31, 2009

(Continued from previous page) 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., May 28—Karel's "Dark Side of the Moon" and Bitomsky's "B-52" at 7 p.m. Director Karel in person.

Fri., May 29—Specogna's "The Short Life of José Antonio Gutierrez" and Akerman's "South" at 7 p.m. Sat., May 30—Léon's "The Lapirovs Go West" and Swaim's "France Made in U.S.A." at 7 p.m. Director Léon in person.

Sun., May 31—Jean-Pierre and Luc Dardenne's "The Son" and "Il Court ... Il Court Le Monde" at 7 p.m. Directors in person.

Mon., June 1—Jean-Pierre and Luc Dardenne's "Rosetta" at 7 p.m. Directors in person.

Tue., June 2—No screenings Wed., June 3—No screenings Thu., June 4—No screenings Fri., June 5—No screenings

## Guidelines for listing events in Calendar

Events on campus sponsored by the University, its schools, departments, centers, organizations, and its recognized student groups are published every Thursday. Events sponsored by outside groups cannot be included. Admissions charges may apply for some events. Call the event sponsor for details.

### To place a listing

Notices should be e-mailed, faxed, or mailed to the Calendar editor. Pertinent information includes: title of event, sponsoring organization, date, time, and location; and, if applicable, name of speaker(s), fee, refreshments, and registration information. A submission form is available at the front desk of the News Office, 1060 Holyoke Center. Promotional photographs with descriptions are welcome.

### Addresses

**Mail:**  
Calendar editor  
Harvard Gazette  
1350 Massachusetts Avenue  
Cambridge, MA 02138

**Telephone:** (617) 496-2651  
**Fax:** (617) 496-9351  
**E-mail:** [calendar@harvard.edu](mailto:calendar@harvard.edu)

### 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.

Sat., June 6—Almodóvar's "Pepi, Luci, Bom and Other Girls on the Heap" at 7 p.m., followed by "What Have I Done To Deserve This?" at 9 p.m.

Sun., June 7—Almodóvar's "Labyrinth of Passion" at 7 p.m. Mon., June 8—Almodóvar's "Dark Habits" at 7 p.m.

Tue., June 9—Thu., July 9—No screenings. Screenings will resume on July 10.

### 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](http://www.realcolegiocomplutense.harvard.edu).

Fri., May 29—Romano and Sorogoyen's "8 citas" 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](mailto:mail@whrb.org), [www.whrb.org](http://www.whrb.org).

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

**Living on Earth**, National Public Radio's journal of the environment, hosted by Steve Curwood, Department of Earth and Planetary Sciences, and produced in cooperation with Harvard University, is aired on more than 270 NPR stations nationally and on more than 400 outlets internationally. In eastern Massachusetts, the program airs Sunday, 7 a.m., WBUR 90.9 FM. (617) 868-8810, [loe@npr.org](mailto:loe@npr.org), [www.loe.org](http://www.loe.org).

## exhibitions

### Arnold Arboretum

"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](http://www.arboretum.harvard.edu).

"Where Art and Science Meet: A Celebration of the Life and Art of Esther Heins" celebrates Heins' life as one of the great female botanists — and Boston-area resident for almost all of her 99 years — by showcasing her large illustrations of the living collections of Arnold Arboretum. (Through May 31)  
—*Lecture Hall, 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](http://www.arboretum.harvard.edu).

### Baker Library

"The Primary Sources: Contemporary Research in Baker Library Historical Collections" examines the role of primary source materials in contemporary scholarly research by showcasing four recent publications by Harvard Business School faculty and fellows that drew extensively from the extraordinary breadth of historical documents held at HBS. Also featuring ten additional, recent, scholarly publications in which the premises were strengthened and enriched by the authors' access to historical documents at HBS. (Through Sept. 11)  
—*North lobby, Baker Library, Bloomberg Center, HBS, Soldiers Field Rd.* (617) 496-6364, [www.library.hbs.edu/hc](http://www.library.hbs.edu/hc).

—*North lobby, Baker Library, Bloomberg Center, HBS, Soldiers Field Rd.* (617) 496-6364, [www.library.hbs.edu/hc](http://www.library.hbs.edu/hc).

### Carpenter Center

"VES Thesis Show: The Arsenale" features the work of students Sabrina Chou, Camille Graves, Cydney Gray, Amy Lien, Christen Leigh McDuffee, Sally Rinehart, John Selig, Nick Shearer, Anna Smith, and Lisa Vastola. (Through June 4)  
—*Main Gallery & Sert Gallery, third floor, Carpenter Center, 24 Quincy St. Main Gallery hours are Mon.-Sat., 9 a.m.-11 p.m.; Sun., noon-11 p.m.; Sert*

*Gallery hours are Tue.-Sun., 10 a.m.-5 p.m.* (617) 495-3251, [tblanch@fas.harvard.edu](mailto:tblanch@fas.harvard.edu), [www.ves.fas.harvard.edu](http://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

"Conceiving the Pill: Highlights from the Reproductive Health Collections" features newly opened manuscripts of John C. Rock, the co-creator of the contraceptive pill with Arthur T. Hertig, and draws on the papers of contributing scientists, physicians, and activists involved in reproductive health. The exhibit includes ephemera, photographs, correspondence, and artifacts from these collections. (Through Sept. 30)  
—*First floor, Countway Library.* (617) 432-6196.

### "Modeling Reproduction: The Teaching Models of Robert Latou Dickinson"

features an early birth pioneer who developed a renowned collection of reproduction models as part of his campaign to broaden the understanding and acceptance of human sexuality. In addition to models, the exhibit includes correspondence, ephemera, and photographs from the Dickinson papers. (Through Sept. 30)  
—*Second floor, Countway Library.* (617) 432-6196. [www.countway.harvard.edu/chom](http://www.countway.harvard.edu/chom).

### "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.

### Ernst Mayr Library

#### "Charles Darwin: A Celebration of the Bicentenary of His Birth (1809)"

presents a selection of Darwin's books, manuscript fragments, correspondence, portraits, and ephemera. (Through autumn 2009)  
—*Ernst Mayr Library, second floor, Museum of Comparative Zoology, 26 Oxford St.* (617) 495-2475, <http://library.mcz.harvard.edu>.

### Graduate School of Design

"The Road Not (Yet) Taken: The Interstate Highway Reconsidered" presents future visions for the Mass Pike corridor, from I-95 to Allston. Design speculations by Loeb Fellows Rob Lane, Jim Brown, and others are presented in models and drawings. (Through May 30)  
—*Gund Hall Lobby, GSD, 48 Quincy St. Free and open to the public.* [www.gsd.harvard.edu/events/exhibitions/current.htm](http://www.gsd.harvard.edu/events/exhibitions/current.htm).

### Gutman Library

"Step Into Art" features artwork and writing by sixth-grade students from the Epiphany School in Dorchester, Mass. The artwork is inspired by portraits from the Harvard Art Museums. (Through June 5)  
—*Gutman Library, HGSE.* [www.gse.harvard.edu/library/index.html](http://www.gse.harvard.edu/library/index.html).

### Harvard Art Museum

■ **Sackler Museum**  
"Re-View" presents extensive selections from the Fogg, Busch-Reisinger, and Sackler museums together for the first time. The survey features Western art from antiquity to the turn of the last century, Islamic and Asian art, and European and American art since 1900. (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 stu-*

*dents 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](http://www.harvardartmuseum.org). **NOTE: The Fogg and Busch-Reisinger closed to the public on June 30, 2008, for a renovation project lasting approximately five years. The Sackler will remain open during the renovation.**

### Harvard Divinity School

"Faces of Buddha" features work by Virginia Peck. (Through May 2009)  
—*Andover Chapel, HDS.* 5:30 p.m. (617) 384-7571.

### Harvard Extension School

"the installed book II" is an exhibition of handmade books by Kelly Bowker, Sarah Cohodes, Carol Kerrissey, Joey Francoeur-Krzysek, Maya Ismailova, Mary Kocol, Charlotte Maher, Dara Olmsted, and Kimberly Salley. The books create and narrate experiences, memories, lives, and living through explorations of sequence, rhythm, space, and form. (Through June 2)  
—*1st, 2nd, and 3rd floors, West Lobby, and 2nd and 3rd floors, elevator landing, Harvard Extension School, 51 Brattle St. Hours are Mon.-Thu., 8:45 a.m.-8:30 p.m.; Fridays, 8:45 a.m.-5 p.m.* [www.extension.harvard.edu](http://www.extension.harvard.edu).

### 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, more than 7 feet long and 6 million years old. (Ongoing)

#### "Evolution" is an exhibition of life's major transitions — the move from water to land and human origins, inviting visitors to examine the fossil, anatomical, and genetic evidence that reveals the shared evolutionary history of all life. Featuring animals and plants that sparked Darwin's theory, dramatic displays of diversity within species, and computer simulations to demonstrate how natural selection acts, "Evolution" will also offer behind-the-scenes looks at current evolution research at Harvard. (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)

"Mineral Gallery." More than 5,000 minerals and gemstones on display including a 1,642 pound amethyst geode from Brazil. Touch meteorites from outer space. (Ongoing)

#### "The Ware Collection of Glass Models of Plants" features the world famous "Glass Flowers" created more than 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. Open daily, 9 a.m.-5 p.m.; Closed Jan. 1, Thanksgiving Day, Dec. 24-25. 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. Current Harvard ID holders and one guest always admitted free. See Web site for free admission hours for Mass. residents, extended third Thursday summer hours, reduced rates for adult and student groups, lectures, classes, and events.* (617) 495-3045, [www.hmn.harvard.edu](http://www.hmn.harvard.edu).

### Holyoke Center

"Physical State" features photographs by Damian Hickey. Influenced by fashion photography and painting, Hickey uses the camera as a tool to photograph

## Calendar abbreviations

Where abbreviations appear in Calendar listings, the following list may be used to find the full name of the sponsoring organization.

Belfer Center for Science and International Affairs	BCSIA
Bunting Society of Institute Fellows	BSIF
Center for American Political Studies	CAPS
Center for European Studies	CES
Center for Government and International Studies	CGIS
Center for Jewish Studies	CJS
Center for Middle Eastern Studies	CMES
Center for Population and Development Studies	CPDS
Center for Quality of Care Research and Education	QCARE
Center for the Study of Values in Public Life	CSVPL
Center for the Study of World Religions	CSWR
Committee for the Concerns of Women at Harvard-Radcliffe	CCW
Committee on African Studies	CAS
Committee on Degrees in Women's Studies	CDWS
Committee on Inner-Asian and Altaic Studies	CIAAS
Committee on Iranian Studies	CIS
David Rockefeller Center for Latin American Studies	DRCLAS
Division of Biological Sciences	DBS
Division of Health Sciences and Technology	DHST
East Asian Legal Studies Program	EALS
Graduate School of Design	GSD
Graduate School of Education	GSE
Harvard AIDS Institute	HAI
Harvard Art Museum	HAM
Harvard Buddhist Studies Forum	HBSF
Harvard College Library	HCL
Harvard Divinity School	HDS
Harvard Education Forum	HEF
Harvard Family Research Project	HFRP
Harvard Film Archive	HFA
Harvard Foundation for Intercultural and Race Relations	HFIRR
Harvard Gay and Lesbian Caucus	HGLC
Harvard Institute for International Development	HIID
Harvard International Office	HIO
Harvard Law School	HLS
Harvard Medical School	HMS
Harvard Museum of Natural History	HMNH
Harvard School of Dental Medicine	HSDM
Harvard School of Public Health	HSPH
Harvard-Smithsonian Center for Astrophysics	CfA
Harvard University Center for the Environment	HUCE
Institute of Politics	IOP
Kennedy School of Government	HKS
Law School Human Rights Program	LSHRP
Law School Program in Jewish Studies	LSPJS
Office for Information Technology	OIT
Office of International Education	OIE
Office of Work and Family Philosophy of Education Research Center	PERC
Program on Information Resources Policy	PIRP
Program on International Conflict Analysis and Resolution	PICAR
Program on Nonviolent Sanctions and Cultural Survival	PNSCS
Program on U.S.-Japan Relations	USJRP
School of Engineering and Applied Sciences	SEAS
Technology & Entrepreneurship Center at Harvard	TECH
Trade Union Program	TUP
Ukrainian Research Institute	URI
United Ministry	UM
Weatherhead Center for International Affairs	WCFA

# Important deadline information

The last issue of the academic year will be June 11. The June 4 and June 11 issues will list events happening through August. The deadline for those issues is TODAY (Thursday, May 28) by 5 p.m. There will be NO exceptions. Please call (617) 496-2651 with any questions.

dreams and visions, which deal with themes of desire and loss from the point of view of female protagonists. Opening reception on Fri., May 29, at 5 p.m. (May 29-June 24)  
—*Holyoke Center Exhibition Space, Holyoke Center Arcade, 1350 Mass. Ave., 9 a.m.-7 p.m. Free and open to the public. (617) 495-5214.*

“**Southwest by Northeast**” is Heather Meri Stewart’s imaginative exploration of the means by which we mediate between the rational and sensual elements of painting. Inspired by recent travels, these paintings investigate the landscape and built environment of the northeastern and southwestern U.S. (June 26-July 22)  
—*Holyoke Center Exhibition Space, Holyoke Center Arcade, 1350 Mass. Ave., 9 a.m.-7 p.m. Free and open to the public. (617) 495-5214.*

“**Greece at a Glance**” showcases photographs by Maggie Hsu that capture Athens, Mykonos, Santorini, the beauty, beaches, and architecture of Greece. (July 24-Aug. 26)  
—*Holyoke Center Exhibition Space, Holyoke Center Arcade, 1350 Mass. Ave., 9 a.m.-7 p.m. Free and open to the public. (617) 495-5214.*

“**From Film to Digital: Fresh Images Over Decades**” features the photographs of Henry Steiner. Taken from 1996 on, these photographs embrace nature in its many majestic forms, nature in the striking patterns and lighting that it can offer, and people in their cultural diversity. (Aug. 28-Sept. 23)  
—*Holyoke Center Exhibition Space, Holyoke Center Arcade, 1350 Mass. Ave., 9 a.m.-7 p.m. Free and open to the public. (617) 495-5214.*

**Houghton Library**  
“**Ever Westward: Sir Arthur Conan Doyle and American Culture**” commemorates the 150th anniversary of Doyle’s birth and examines his life and most famous literary creation, Sherlock Holmes, with a special emphasis on their place in American culture. (Through Aug. 8)  
—*Edison and Newman Room, Houghton Library. (617) 496-4027.*

“**Imitatio Christi**” focuses on this famed work of spiritual guidance from the time it was written in the 15th century into the modern age, with an emphasis on the context of the history of early painting. Curated by Jane Cheng as part of her senior thesis in History of Art and Architecture. (Through May 30)  
—*Amy Lowell Room, Houghton Library. (617) 495-2441.*

“**A Monument More Durable Than Brass: The Donald and Mary Hyde Collection of Dr. Samuel Johnson**” is the most comprehensive collection in existence on the life and work of Johnson and his circle of friends and associates in 18th century London. Treasures include a fragment of the manuscript for his “Dictionary,” his only surviving letter to his wife, books from his library, and his teapot. See also conferences. (Aug. 26-Nov. 14)  
—*Edison and Newman Room and Amy Lowell Room, Houghton Library. (617) 495-2449.*

“**This great voice that shakes the world: Tennyson’s ‘Idylls of the King’**” is a celebration of the 200th anniversary of Tennyson’s birth. This exhibition focuses on the poet’s great Arthurian, “The Idylls of the King,” a 12-part cycle of poems composed and published over nearly 30 years. Including early drafts and variants, published editions, and artist’s interpretations of the “Idylls.” (June 15-Aug. 27)  
—*Amy Lowell Room, Houghton Library. (617) 495-2449.*

**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.*

“**Harvard College Annual International Photo Contest**” displays photos taken by Harvard students who have studied, worked, interned, or conducted research abroad during the past year. (Through June 30)  
—*Level B and first floor, Lamont Library. (617) 495-2455.*

**Landscape Institute**  
“**Independent Project Studio and Design IV Final Project Presentation.**” (Through June 25)  
—*Landscape Institute, 30 Chauncy St. (617) 495-8632, www.landscape.arboretum.harvard.edu.*

**Loeb Music Library**  
“**Nadia Boulanger and Her American Composition Students**” focuses on Nadia Boulanger, one of the foremost composition teachers of the 20th century, especially her American ties and her influence on generations of American composers. www.crosscurrents08-09.org. (Through July 1)  
—*Richard F. French Gallery, Eda Kuhn Loeb Music Library, Fanny Mason Peabody Music Building. (617) 496-3359.*

**Peabody Museum**  
“**Avenue Patrice Lumumba: Photographs by Guy Tillim**” features photographs of Tillim’s travels to Angola, Mozambique, Congo, and Madagascar to document the grand colonial architecture and how it has become a part of a contemporary African stage. (Through Sept. 8)

“**Change and Continuity: Hall of the North American Indian**” explores how native peoples across the continent responded to the arrival of Europeans. (Ongoing)

“**Digging Veritas: The Archaeology and History of the Indian College and Student Life at Colonial Harvard**” showcases finds from Harvard Yard, historical documents, and more from Harvard’s early years. (Through Jan. 2010)

“**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)

“**Masked Festivals of Canton Bo (Ivory Coast), West Africa**” explores the *g’la*, or the spirit forms of eastern Liberia/Ivory Coast festivals through rare drawings and photographs, along with masks from the Peabody Museum collections. See also Tozzer Library. (Through March 31, 2010)

“**Pacific Islands Hall**” features a diverse array of artifacts brought to the museum by Boston’s maritime trade merchants. (Ongoing)

“**Storied Walls: Murals of the Americas**” explores the spectacular wall paintings from the ancestral Hopi village kivas of Awatovi in Arizona; San Bartolo and Bonampak in Guatemala and Mexico, respectively; and the Moche huacas of northern Peru. (Through Dec. 31, 2009)

“**Wiyohpiyata: Lakota Images of the Contested West**” explores the mean-

ings of a unique 19th century “artist’s book” filled with colored drawings by Indian warriors, probably Lakota Indians, recovered by the U.S. Army from the battlefield after the 1876 Little Big Horn fight, in which George Armstrong Custer was defeated by the Sioux and Cheyenne. (Through August 2011)  
—*The Peabody Museum is located at 11 Divinity Ave. Open daily, 9 a.m.-5 p.m. Admission is \$9 for adults; \$7 for senior citizens and students; \$6 for children 3 to 18 years old; free for children under 3 years old. Free admission (for Massachusetts residents only) on Sun. mornings 9 a.m.-noon, except for groups, and free admission on Wed. afternoons, Sept.-May, 3-5 p.m. The Peabody Museum is closed Jan. 1, Thanksgiving Day, Dec. 24, and Dec. 25. (617) 496-1027, www.peabody.harvard.edu.*

**Pusey Library**  
“**Diaghilev’s Ballets Russes, 1909-1929: Twenty Years that Changed the World of Art**” features more than 200 original documents and art works in the Harvard Theatre Collection. For more information, visit [http://hcl.harvard.edu/info/exhibitions/index.html#diaghilevs\\_ballets](http://hcl.harvard.edu/info/exhibitions/index.html#diaghilevs_ballets). (Through Aug. 28)  
—*Pusey Library. Open weekdays, 9 a.m.-5 p.m.*

“**Family Gallery**” features portraits of Theodore Roosevelt’s wives, children, and himself as a father, paterfamilias, and grandfather, while “**Pilgrimage to a Refuge**” displays Roosevelt’s photographs, ocean charts, and his published account of his 1915 trip to the bird refuges at the mouth of the Mississippi. (Through June 30)  
—*Roosevelt Gallery, Pusey Library. (617) 384-7938.*

“**Taking the Measure of Rhode Island: A Cartographical Tour**” examines the cartographical history of the small, enigmatic state. From the Colonial period to the early 20th century, this exhibit features examples of boundary surveys, state maps, nautical charts, town plans, city and state atlases, topographical and geological maps, road guides, and bird’s eye views. (Through June 12)  
—*Map Gallery Hall, Pusey Library. (617) 495-2417.*

“**Through the Camera Lens: Theodore Roosevelt and the Art of Photography**” commemorates the 150th anniversary of Theodore Roosevelt’s birth. (Through May 2009)  
—*Pusey Library corridor, including the Theodore Roosevelt Gallery. Mon.-Fri., 9 a.m.-4:45 p.m. (617) 384-7938.*

**Semitic Museum**  
“**Ancient Cyprus: The Cesnola Collection at the Semitic Museum**” comprises vessels, figurines, bronzes, and other artifacts dating from 2000 B.C. to 300 A.D. (Ongoing)

“**Ancient Egypt: Magic and the Afterlife**” introduces visitors to the Egyptian view of life after death through coffins, amulets, and funerary inscriptions. (Ongoing)

“**The Houses of Ancient Israel: Domestic, Royal, Divine**” is devoted to everyday life in Iron Age Israel (ca. 1200-600 BCE). Featured in the exhibit is a full-scale replica of a fully furnished, two-story village house. (Ongoing)

“**Nuzi and the Hurrians: Fragments from a Forgotten Past**” features over 100 objects detailing everyday life in Nuzi, which was located in Northeastern Iraq around 1400 B.C. (Ongoing)  
—*Semitic Museum, 6 Divinity Ave. Open Mon.-Fri., 10 a.m.-4 p.m.; Sun., 1-4 p.m. Closed holiday weekends. Admission is free. (617) 495-4631.*

**Science Center**  
“**Patent Republic: Materialities of Intellectual Property in 19th-Century America**” retraces more than 50 years of patent-model making in the U.S., presenting common inventions such as washing machines, carpet sweepers, and ice skates, as well as Thomas Edison’s carbonizer. (Through Dec. 11)  
—*Science Center, 1 Oxford St. Open weekdays, 9 a.m.-5 p.m.*

**Tozzer Library**  
“**Masked Festivals of Canton Bo (Ivory Coast), West Africa**” explores the *g’la*, or the spirit forms of eastern Liberia/Ivory Coast festivals through rare drawings and photographs, along with masks from the Peabody Museum collections. See also Peabody Museum. (Through March 31, 2010)  
—*Tozzer Library Gallery, 21 Divinity Ave. Hours are Mon.-Fri., 9 a.m.-5 p.m., with some evening and weekend hours. (617) 495-2292, http://hcl.harvard.edu/libraries/#tozzer.*

## lectures

### art/design

Sun., June 14—“**A Museum of Plaster Casts: Adolphus Busch Hall.**” (Art Museum) Gallery talk with Almut Trinius, curatorial fellow, Harvard Art Museum. Adolphus Busch Hall, 29 Kirkland St., 2 p.m. Free and open to the public. (617) 495-9400, www.harvardartmuseum.org.

Sat., June 20—“**A Historian’s Perspective: How the Art of Pissarro, Manet, and Picasso Can Teach Us about Women’s Lives in Late 19th Century France.**” (Art Museum) Gallery talk with Kelsey McNiff, Harvard Art Museum. Sackler Museum, 485 Broadway, 11 a.m. Free and open to the public. (617) 495-9400, www.harvardartmuseum.org.

Sat., July 18—“**Modern Visions from the Busch-Reisinger Museum Collection.**” (Art Museum) Gallery talk with Laura Muir, assistant curator, Harvard Art Museum. Sackler Museum, 485 Broadway, 11 a.m. Free and open to the public. (617) 495-9400, www.harvardartmuseum.org.

Sat., Aug 15—“**Renaissance Responses to Antiquity: Rubens, Bernini, and Poussin.**” (Art Museum) Gallery talk with Antien Knapp, postdoctoral fellow, Harvard Art Museum. Sackler Museum, 485 Broadway, 11 a.m. Free and open to the public. (617) 495-9400, www.harvardartmuseum.org.

### conferences

Sat., May 30-Sun., May 31—“**Moral Action in Historical Context: A Conference in Honor of Patrice Higonnet.**” (CES) Day 1: Panel 1: The Mother of Us All: The French Revolution; Panel 2: Politics and Religion in Moral Action; Panel 3: Personal and Political: Medicine, Birth, and Sex; Panel 4: The Politics of Moral Choices. Lower level conference room, Busch Hall, 8 a.m.-5:30 p.m. Day 2: Panel 5: Politics and Intellectuals; Panel 6: The Historical Context of Patrice Higonnet. Lower level conference room, Busch Hall, 8 a.m.-1:30 p.m. For a complete list of events and speakers, visit [www.ces.fas.harvard.edu/conferences/higonnet/index.html](http://ces.fas.harvard.edu/conferences/higonnet/index.html).

Thu., Aug. 27-Sat., Aug 29—“**Johnson at 300: A Houghton Library Symposium.**” (Harvard College Library) For symposium details, visit [http://hcl.harvard.edu/libraries/Houghton/conference\\_johnson.html](http://hcl.harvard.edu/libraries/Houghton/conference_johnson.html). See also exhibitions.

### ethics

Tue., June 9—“**The Cold War and the**

**Origins of International Human Rights Regimes After the Second World War.**” (Davis Center) Nadia Boyadjieva, University of Plovdiv. Room S354, CGIS South, 1730 Cambridge St., 4:15 p.m. [www.daviscenter.fas.harvard.edu](http://www.daviscenter.fas.harvard.edu).

### health sciences

Thu., May 28—“**Problems and Potentialities of Echocardiographic Diagnosis and Monitoring.**” (HMS) Balachundar Subramaniam, Beth Israel Deaconess Medical Center. Room 10, Harvard Faculty Club, 20 Quincy St., 7:45 a.m. Breakfast will be served.

Tue., June 2—“**The Annual Wilfred Gould Rice Lecture on Psychology and Religion. “Medicine, Psychiatry, and Religion: The Central Role of The Reverend John Bartlett in Founding the McLean and the MGH in 1810.**” (Swedenborg Society) Eugene Taylor, HMS. Swedenborg Chapel, Quincy at Kirkland Street. 7:30 p.m. Free and open to the public.

### School of Public Health

Thu., May 28—“**TB and Malaria Drug Discovery — What a Long Strange Trip It’s Been.**” (HSPH) James Sacchetti, Texas A&M University. Room G12, FXB Building, HSPH, 665 Huntington Ave., 4 p.m. Reception prior to lecture at 3:30 p.m.

### humanities

Tue., June 2—“**The Annual Wilfred Gould Rice Lecture on Psychology and Religion. “Medicine, Psychiatry, and Religion: The Central Role of The Reverend John Bartlett in Founding the McLean and the MGH in 1810.**” (Swedenborg Society) Eugene Taylor, HMS. Swedenborg Chapel, Quincy at Kirkland Street. 7:30 p.m. Free and open to the public.

Wed., June 3—“**Why God Cannot Exist.**” Geoffrey Berg, author, “The Six Ways of Atheism.” Meeting Room, 2 Arrow St., 7:15 p.m. Open to Harvard students and academics. Question-and-answer session to follow.

### information technology

Mon., June 1—“**Ready for the Future? Prospects for New Industries Created by the Convergence of Technologies.**” (SEAS) Chang-Gyu Hwang, former CTO, CEO, and president, Samsung Electronics. Room 209, Pierce Hall, 29 Oxford St., 2 p.m. [j\\_casasanto@seas.harvard.edu](mailto:j_casasanto@seas.harvard.edu).

### poetry/prose

Sun., June 14—“**Fairly Unbalanced: Writing Political Satire in the Twenty-First Century.**” (Cambridge Forum) A discussion of the power (and pitfalls) of writing in the age of Jon Stewart and Al Franken. Panelists include novelists Percival Everett and Lise Haines; comedian Jimmy Tingle; poet Baron Wormser, and members of the Harvard Lampoon. Writer Nurmuhemmet Yasin will be honored by PEN/New England. Cambridge Forum, 3 Church St., 4 p.m. Free and open to the public. [www.cambridgeforum.org](http://www.cambridgeforum.org).

### science

Thu., May 28—“**Sirtuins, Aging, and Disease.**” (Molecular & Cellular Biology) Leonard Guarente, MIT. Room 102, Sherman Fairchild, 7 Divinity Ave., noon.

Sat., May 30—“**Multitalented Microbes: How These Tiny Organisms Transform Your Life!**” (Microbial Sciences Initiative) Rachel Dutton, HMS; Amy Rowat, SEAS; Gautam Dantes and Morten Sommer, HMS. Designed for the non-scientist interested in food, biofuels, and microbes. There will be lectures

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by Harvard research scientists, plus a microbial “marketplace” with demonstrations by community members on cheese-making, bread-making, fermentation products, mushrooms, probiotic toothpaste, make-your-own-microbial art, and more. Lecture Hall B103, Northwest Labs Building, 52 Oxford St., 1-4 p.m. Free and open to the public. Light refreshments provided. (617) 495-8643, herren@fas.harvard.edu, www.msi.harvard.edu/outreach.html.

Mon., June 1—“**Ready for the Future? Prospects for New Industries Created by the Convergence of Technologies.**” (SEAS) Chang-Gyu Hwang, former CTO, CEO, and president, Samsung Electronics. Room 209, Pierce Hall, 29 Oxford St., 2 p.m. j\_casasanto@seas.harvard.edu.

Wed., June 3—“**Towards Construction of a Synthetic Self-Replicating Entity.**” (Origins of Life Initiative) Michael C. Jewett, HMS. Room 1068, Biological Laboratories Lecture Hall, 16 Divinity Ave., 4 p.m. Free and open to the public.

## social sciences

Thu., May 28—“**This Land is My Land? Territorial Expansion, the International Environment, and Settlement Projects in Post-Colonial Times.**” (Belfer Center’s International Security Program) Brown bag seminar with Ehud Eiran, research fellow, ISP. Littauer 369, Belfer Center Library, HKS, 79 JFK St., 12:15 p.m. Coffee and tea provided. <http://belfercenter.ksg.harvard.edu/events/3986/>.

Thu., May 28—“**Spain’s Internationalization in the Foundational Years of Democracy: A Constitutional Law Approach.**” (Real Colegio Complutense) Angel Rodríguez, University of Málaga. 26 Trowbridge St., 7:30 p.m. Lecture in English. Free and open to the public. [www.realcolegiocomplutense.harvard.edu](http://www.realcolegiocomplutense.harvard.edu).

Tue., June 2—“**Why the United States Accepted a Continental Commitment.**” (Belfer Center’s International Security Program) Brown bag seminar with Sebastian Rosato, University of Notre Dame. Littauer 369, Belfer Center Library, HKS, 79 JFK St., 12:15 p.m. Coffee and tea provided. <http://belfercenter.ksg.harvard.edu/events/3985/>.

Tue., June 2—**The Annual Wilfred Gould Rice Lecture on Psychology and Religion. “Medicine, Psychiatry, and Religion: The Central Role of the Reverend John Bartlett in Founding the McLean and the MGH in 1810.”** (Swedenborg Society) Eugene Taylor, HMS. Swedenborg Chapel, Quincy at Kirkland Street. 7:30 p.m. Free and open to the public.

Wed., June 3—“**Why God Cannot Exist.**” Geoffrey Berg, author, “The Six Ways of Atheism.” Meeting Room, 2 Arrow St., 7:15 p.m. Open to Harvard students and academics. Question-and-answer session to follow.

Tue., June 9—“**The Cold War and the Origins of International Human Rights Regimes After the Second World War.**” (Davis Center) Nadia Boyadjieva, University of Plovdiv. Room S354, CGIS South, 1730 Cambridge St., 4:15 p.m. [www.daviscenter.fas.harvard.edu](http://www.daviscenter.fas.harvard.edu).

Sun., June 14—“**Fairly Unbalanced: Writing Political Satire in the Twenty-First Century.**” (Cambridge Forum) A discussion of the power (and pitfalls) of writing in the age of Jon Stewart and Al Franken. Panelists include novelists Percival Everett and Lise Haines; comedian Jimmy Tingle, poet Baron Wormser, and members of the Harvard Lampoon. Writer Nurmuhemmet Yasin will be honored by PEN/New England. Cambridge Forum, 3 Church St., 4 p.m. Free and open to the public. [www.cambridgeforum.org](http://www.cambridgeforum.org).

## classes etc.

**Arnold Arboretum** offers a series of classes for the general public. (617) 384-5209, [arbweb@arnarb.harvard.edu](mailto:arbweb@arnarb.harvard.edu),

[www.arboretum.harvard.edu](http://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](http://www.arboretum.harvard.edu/programs/fieldstudy_guides.html).

■ **“Signs of Spring” 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](http://www.arboretum.harvard.edu/visitors/tours.html).

■ **Call for Artists:** The Arnold Arboretum and Jamaica Plain Open Studios are hosting a juried group exhibition devoted to art inspired by the plants, landscape, and collections of the Arnold Arboretum. Artists are welcome to submit work for consideration. Art must be two-dimensional, paintings and prints, appropriately framed, and ready-to-hang. Details and forms available at [www.arboretum.harvard.edu/jpos](http://www.arboretum.harvard.edu/jpos). The deadline is Tue., July 14, at 4 p.m.

■ **Events/Classes**  
Thu., May 28-Sun., May 31—“**4th Annual Birds & Bards Festival.**” Weekend-long festival celebrating the connections among urban communities, nature, and art. Taking place across 1,100 acres of green space at the southern end of Boston’s Emerald Necklace, the events include expert-led bird walks, poetry explorations, musical performances, and live raptor demonstrations. Kick-off event: Thu., May 28, at 7 p.m. in Forsyth Chapel, Forest Hills Cemetery. For a complete schedule, visit [www.arboretum.harvard.edu](http://www.arboretum.harvard.edu).

The **Center for Workplace Development** offers a wide variety of professional development courses, career development workshops, consulting services, and computer classes to Harvard employees. State-of-the-art training and conference rooms are available to rent at CWD’s 124 Mt. Auburn St. location as well. Go to <http://harvie.harvard.edu/learning/cwd> to view a complete list of programs and services, or contact CWD at (617) 495-4895 or [training@harvard.edu](mailto:training@harvard.edu).

**Committee on the Concerns of Women at Harvard** holds meetings throughout the year. [www.atwork.harvard.edu](http://www.atwork.harvard.edu), <http://harvie.harvard.edu>. E-mail [ccw@harvard.edu](mailto:ccw@harvard.edu) for registration and details.

**CPR and First Aid Programs.** Call (617) 495-1771 to register.

**Environmental Health and Safety** (Harvard Longwood Campus) safety seminars/orientation for Medical Area lab researchers are offered on the third Thursday of each month, noon-2:30 p.m. Topics include: Laboratory Safety, Bloodborne Pathogens, Hazardous Waste. (617) 432-1720, [www.uos.harvard.edu/ehs](http://www.uos.harvard.edu/ehs). Beverages provided.

**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](http://www.harvardballroom.org).

**Harvard Contemporary Gamelan** is open to Harvard students, faculty, staff, and other community members. Join us Thursdays for a new music adventure and be part of creating the Music Department’s new orchestra. Lower main floor, Gamelan Music Room, SOCH/Hilles, 7 p.m. To sign up, e-mail [diamond2@fas.harvard.edu](mailto:diamond2@fas.harvard.edu).

**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 purposefully, 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. Summer session will be held June 29-July 17 (no class July 3), Mon.-Fri., 4 p.m. Call (617) 495-2581 or come to the Bureau of Study Counsel, 5 Linden St., to register or for more information. <http://bsc.harvard.edu/>.

**Harvard Extension School Career and Academic Resource Center.** (617) 495-9413, [ouchida@hudce.harvard.edu](mailto:ouchida@hudce.harvard.edu).

**Harvard Green Campus Initiative** offers classes, lectures, and more. Visit [www.greencampus.harvard.edu](http://www.greencampus.harvard.edu) for details.

**Harvard Medical School**

■ Fri., June 5—“**Returning War Veterans: Challenges in Continuing Mental Health Care After Military and Civilian Trauma.**” 32nd Annual Erich Lindemann Memorial Lecture. Talks by Jaïne L. Darwin, Gary B. Kaplan, Erin Daly, Tom Kelley, and Barbara A. Leadholm; moderated by David G. Satin. Massachusetts School of Professional Psychology, 221 Rivermoor St., 2:30 p.m.-5 p.m. Free and open to the professional community and public.

**Harvard Medical School’s Research Imaging Solutions.** (617) 432-2323, [ris@hms.harvard.edu](mailto:ris@hms.harvard.edu), <http://it.med.harvard.edu/training>.

■ Fri., June 5—“**Creating Figures for Presentations and Publications Using PhotoShop and PowerPoint.**” Countway Library of Medicine Electronic Classroom, 9 a.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](http://it.med.harvard.edu/pg.asp?pn=training_classes).

■ Wed., June 10—“**Accessorize Your Presentations.**” Room 318, Goldenson, HMS, noon. Free and open to Harvard employees and HMS affiliates. No registration required. Handouts can be downloaded at <http://it.med.harvard.edu/ris>.

■ Mon., June 22—“**Creating Figures for Presentations and Publications Using PhotoShop and PowerPoint.**” Countway Library of Medicine Electronic Classroom, 9 a.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](http://it.med.harvard.edu/pg.asp?pn=training_classes).

■ Wed., July 15—“**Creating Figures for Presentations and Publications Using PhotoShop and PowerPoint.**” Countway Library of Medicine Electronic Classroom, 9 a.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](http://it.med.harvard.edu/pg.asp?pn=training_classes).

■ Fri., July 24—“**Overcoming Projection Dysfunction.**” Room 318, Goldenson, HMS, noon. Learn how to eliminate common technical problems involved in projecting computer-based presentations. No registration required. Handouts can be downloaded at <http://it.med.harvard.edu/ris>.

**Harvard Museum of Natural History** offers a variety of programs based on the Museum’s diverse exhibits. The entrance for all programs is 26 Oxford St. **Enrollment is limited, and advance registration is required.** Sign up for three or more classes and get an extra 10 percent off. Wheelchair accessible. (617) 495-2341, [www.hmnh.harvard.edu](http://www.hmnh.harvard.edu).

■ **Summer Science Weeks**  
HMNH offers opportunities for children in preschool through grade 6 to explore the natural world in half-day Summer Science Weeks. Kids learn with professional museum educators: observing live animal behaviors and investigating insects, spiders, and other creepy crawlies. [www.hmnh.harvard.edu/kids\\_classes/index.php#summer-classes](http://www.hmnh.harvard.edu/kids_classes/index.php#summer-classes).

■ **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](mailto: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**  
Thu., June 18, July 16, Aug. 20—“**Summer Nights.**” Extended hours at the museum offers chances to explore the galleries and participate in special programs. Half-price admission on the third Thursday in June, July, and August. Each night will feature a special program including movie screenings, conversations with scientists, and gallery tours. Check [www.hmnh.harvard.edu](http://www.hmnh.harvard.edu) for details.

**Harvard Neighbors** offers a variety of programs and events for the Harvard community. (617) 495-4313, [neighbors@harvard.edu](mailto:neighbors@harvard.edu), [www.neighbors.harvard.edu](http://www.neighbors.harvard.edu).

**Harvard School of Public Health**

■ Mon., June 8-Fri., June 12—“**Ethical Issues in Global Health Research Workshop.**” Intensive 5-day seminar on key topics, including ethical guidelines for research involving human subjects, confidentiality, conflict of interest, and scientific misconduct. Room 636, FXB Building, 651 Huntington Ave., 8 a.m.-6 p.m. daily. Course fee of \$1,950 (\$300 nonrefundable deposit due upon acceptance) includes daily continental breakfasts and breaks, special function in Harvard Faculty Club, comprehensive reference manual and CD, and a Harvard certificate of attendance. For more information on costs, scholarship assistance, and programming, visit [www.hsph.harvard.edu/bioethics](http://www.hsph.harvard.edu/bioethics). (617) 432-3998, [mclark@hsph.harvard.edu](mailto:mclark@hsph.harvard.edu).

**The Landscape Institute**, 30 Chauncy St., 1st floor. (617) 495-8632, [www.landscape.arnarb.harvard.edu](http://www.landscape.arnarb.harvard.edu), [www.landscape.arboretum.harvard.edu](http://www.landscape.arboretum.harvard.edu).

■ **Summer 2009 registration** is open for enrollment. Classes begin June 1.

■ Mon., June 8-Fri., June 12—“**Estate Management Practicum: The Evolution of an Historic Estate Garden to a Modern Day Nonprofit Institution.**” Weeklong intensive workshop offering students a “real world” opportunity to address the many professional challenges presented by a new client with a large historic estate. Featuring talks by Richard Schulhof, Erica Max, Alice Ingerson, and others. Cost is \$485. Register online at [http://arboretum.harvard.edu/landinst/reg\\_courses.php](http://arboretum.harvard.edu/landinst/reg_courses.php).

■ Thu., June 11-Thu., July 9—“**Therapeutic Landscapes.**” Instruction by Robert C. Hoover. June 11: 821-1A “Why Therapeutic Landscapes?”; June 25: 821-2A “What is a Therapeutic Garden for Alzheimer’s Disease?”; July 9: 821-3A “Therapeutic Landscape Case Studies.” Classes run from 5:30 p.m.-7:30 p.m. Cost is \$100 for 3 sessions; \$40 for a single session. Participants may register for all three sessions, using the course code 821A. For single session registration, use the code next to class title. [http://arboretum.harvard.edu/landinst/reg\\_courses.php](http://arboretum.harvard.edu/landinst/reg_courses.php).

■ Thu., June 25—“**Why People Garden: A Look at the Prominent and Not-So-Prominent Folks Who Bring Gardening and Landscaping into Our Lives.**” Richard Churchill, associate editor, People, Places, & Plants. Landscape Institute, 30 Chauncy St., 6 p.m. Reception at 5:30 p.m.

**Office for the Arts** offers several extracurricular classes designed to enhance the undergraduate experience. (617) 495-8676, [ofa@fas.harvard.edu](mailto:ofa@fas.harvard.edu), [www.fas.harvard.edu/ofa](http://www.fas.harvard.edu/ofa).

**Office for the Arts, Ceramics Program** provides a creative learning environment

for a dynamic mix of Harvard students, staff and faculty, professional artists, and the greater Boston and international community. [www.fas.harvard.edu/ceramics](http://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](http://harvie.harvard.edu/courses/display.do?value(application_id)=3). Call (617) 495-4100 or e-mail [worklife@harvard.edu](mailto: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](mailto:barbara_wolf@hms.harvard.edu), [www.hms.harvard.edu/hr/owf.html](http://www.hms.harvard.edu/hr/owf.html).

■ Thu., May 28—“**Buying Your First Home.**” Lynn King, Coldwell Banker.

**Radcliffe Institute for Advanced Study**

■ Sun., June 7-Fri., June 12—“**Reading Historic Cookbooks: A Structured Approach.**” Seminar by Barbara Ketcham Wheaton. Schlesinger Library, 10 Garden St., Radcliffe Yard. Applications accepted through May 8. A participation fee is required. [www.radcliffe.edu](http://www.radcliffe.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@hulmail.harvard.edu](mailto:rmo@hulmail.harvard.edu), <http://hul.harvard.edu/rmo>.

## computer

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](http://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](http://hcl.harvard.edu/widener/services/research/hollis_instruction.html).

## special events

Thu., May 28-Sun., May 31—“**4th Annual Birds & Bards Festival.**” (Arnold Arboretum) Weekend-long festival celebrating the connections among urban communities, nature, and art. Taking place across 1,100 acres of green space at the southern end of Boston’s Emerald Necklace, the events include expert-led bird walks, poetry explorations, musical performances, and live raptor demonstrations. Kick-off event: Thu., May 28, at 7 p.m. in Forsyth Chapel, Forest Hills Cemetery. For a complete schedule, visit [www.arboretum.harvard.edu](http://www.arboretum.harvard.edu).

Thu., May 28—“**Last Chance Dance.**” (Harvard Alumni Association, Senior Class Committee) Dance party for seniors. The Roxy, 279 Tremont St., 9:30 p.m. Tickets are \$15 seniors only. Two tickets per ID; 21+ with valid ID. Harvard Box Office (617) 496-2222, [www.boxoffice.harvard.edu](http://www.boxoffice.harvard.edu).

Fri., May 29—“**Casino Night at Foxwoods.**” (Harvard Alumni Association, Senior Class Committee) Foxwoods Casino, 39 Norwich Westerly Rd., 5 p.m. Tickets are \$28 seniors only. Two tickets per ID; 21+ with valid ID. Harvard Box Office (617) 496-2222, [www.boxoffice.harvard.edu](http://www.boxoffice.harvard.edu).

Sat., May 30—“**Multitalented Microbes: How These Tiny Organisms Transform Your Life!**” (Microbial Sciences Initiative) Rachel Dutton, HMS; Amy Rowat, SEAS; Gautam Dantes and Morten Sommer, HMS. Designed for the non-scientist interested in food, biofuels, and microbes. There will be lectures by Harvard research scientists, plus a microbial “marketplace” with demonstrations by community members on cheese-making, bread-making, fermenta-



## May 28-30

The Harvard Film Archive (HFA) presents a new series of documentaries about the United States by directors from abroad — ‘America As Seen By ...’ — May 28-30. See film, page 20, for details.

LEFT: ‘South (*Sud*)’ screens at the HFA Friday, May 29, following ‘The Short Life of José Antonio Gutierrez (*Das kurze leben des José Antonio Gutierrez*)’ at 7 p.m.

tion products, mushrooms, probiotic toothpaste, make-your-own-microbial art, and more. Lecture Hall B103, Northwest Labs Building, 52 Oxford St., 1-4 p.m. Free and open to the public. Light refreshments provided. (617) 495-8643, herren@fas.harvard.edu, www.msi.harvard.edu/outreach.html.

Sat., May 30—“**Senior Soiree.**” (Harvard Alumni Association, Senior Class Committee) Festive dancing and libations. Science Center, 1 Oxford St., 9 p.m. Tickets are \$20 seniors only. Two tickets per senior ID; 21+ with valid ID at the door. Harvard Box Office (617) 496-2222, www.boxoffice.harvard.edu.

Sun., May 31—“**Senior Farewell BBQ.**” (Harvard Alumni Association, Senior Class Committee) BBQ event; all you can eat and drink. Gordon Track and Tennis Center, 79 North Harvard St., Soldier’s Field Complex, 6 p.m. Tickets are \$10 seniors only. Two tickets per senior ID. Harvard Box Office (617) 496-2222, www.boxoffice.harvard.edu.

Mon., June 1-Fri., June 5—“**Radcliffe Reunions.**” (Radcliffe Institute) Alumnae/i event. Time and location TBA. (617) 495-8641, www.radcliffe.edu.

Thu., June 4—“**Annual Meeting of Harvard Alumni Association.**” (Harvard Alumni Association) HAA meeting. Tercentenary Theatre, Harvard Yard, 1:45 p.m. Free tickets for Harvard faculty and staff; valid Harvard ID must be present to obtain tickets. Harvard Box Office (617) 496-2222, www.boxoffice.harvard.edu.

Fri., June 5—“**Radcliffe Day.**” (Radcliffe Institute) Alumnae/i event. Advance registration is required by May 20. To view schedule or register, visit www.radcliffe.edu/alumnae/rad\_day\_schedule.a.spx. (617) 496-0516, jessica\_obara@radcliffe.edu.

Sun., June 7—“**Members Spring Garden Party.**” (Art Museum) Guided tours, light refreshments, and music in the garden. Adolphus Busch Hall, 29 Kirkland St., 3:30 p.m. Members \$15; guests \$20; complimentary tickets for members at the supporting level and above. Space is limited; register by June 1. (617) 495-4544, artmuseum\_membership@harvard.edu.

Thu., June 18, July 16, Aug. 20—“**Summer Nights.**” (HMNH) Extended hours at the museum offers chances to explore the galleries and participate in special programs. Half-price admission on the third Thursday in June, July, and August. Each night will feature a special program including movie screenings, conversations with scientists, and gallery tours. HMNH, 26 Oxford St. Check www.hmnh.harvard.edu for details.

## fitness

### Harvard Wellness Programs

For a recorded listing of programs, (617) 495-1771. For a registration form, (617) 495-9629, www.huhs.harvard.edu.

### Massage Therapy, 1-Hour Appointments

One-hour appointments with Licensed Massage Therapists Mondays-Fridays, afternoon and evening appointments, limited morning appointments Saturdays, morning, afternoon, and evening appointments Sundays, morning and afternoon appointments 75 Mt. Auburn St., HUHS Call (617) 495-9629 to arrange Fee is \$60/hr; \$40/hr for HUGHP members

### Massage Therapy, 1/2-Hour Appointments

1/2-hour appointments with Licensed Massage Therapists Wednesdays and Thursdays, 9 a.m.-noon 75 Mt. Auburn St., 2E, HUHS Call (617) 495-9629 to arrange Fee is \$37/half-hr; \$25/half-hr for HUGHP members

### Lunchtime Massage Therapy Break at HUHS

Ten-minute appointments with Licensed Massage Therapists Mondays, noon-2 p.m. at the HUHS Pharmacy in Holyoke Center Wednesdays, 11 a.m.-2 p.m. at CWHC, 2E, HUHS Thursdays, 5:30-7:30 p.m. at Hemenway Gym Fridays from 11 a.m.-2 p.m. at the HUHS Pharmacy in Holyoke Center Call (617) 495-9629 to arrange Fee is \$10/10 minutes

### On-Site Massage Therapy or Shiatsu

10-minute appointments with Licensed Massage Therapists Call (617) 495-9629 to arrange Fee is \$10 per person for 10 minutes; minimum of six people

### Shiatsu (Acupressure)

One-hour appointments with Karl Berger, OBT, LMT Mondays, 6, 7, and 8 p.m. 75 Mt. Auburn St., 5th floor, HUHS Call (617) 495-9629 to arrange Fee is \$60/hr; \$40/hr for HUGHP members

### Reiki

One-hour appointments with Farris Ajalat, Judy Partington, & Lisa Santoro, LMTs Tuesdays, Wednesdays, Thursdays, Saturdays 75 Mt. Auburn St., 2E, HUHS Call (617) 495-9629 to arrange Fee is \$60/hr; \$40/hr for HUGHP members

### Active Release Technique (ART)

One-hour appointments with a Licensed Massage Therapist Sundays and Mondays, mid-day, afternoon and evening appointments 75 Mt. Auburn St., 2E, HUHS Call (617) 495-9629 to arrange Fee is \$60/hr; \$40/hr for HUGHP members

### Acupuncture, 1-Hour Appointments

One-hour appointments with Jeffrey Matrician, Lic. Ac. Tuesdays and Fridays, morning and afternoon appointments 75 Mt. Auburn St., 2E, HUHS Call (617) 495-9629 to arrange (clinical clearance required) Fee is \$75/hr; \$40/hr for HUGHP members

### Tobacco Cessation Classes

are offered weekly at the Dana-Farber Cancer Institute, dates and times may vary. Fee: \$10 per class, and nicotine patches are available at a discounted rate. (617) 632-2099.

### Weight Watchers at Work

classes are available. (617) 495-9629.

### Weight Watchers@Work at HDS

classes are available Tuesdays, 1:15-2 p.m. at the Center for the Study of World Religions, 42 Francis Ave. The cost for the series of 12 meetings is \$156. (617) 495-4513, srom@hds.harvard.edu.

## 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.

■ May 31—The Rev. Peter J. Gomes, Plummer Professor of Christian Morals and Pusey Minister in the Memorial Church

### Commencement Week Services

■ Tue., June 2—“**Baccalaureate Service**” at 2 p.m.

■ Wed., June 3—“**Divinity School Service**” for degree candidates of the Divinity School, their families, and members of the Faculty of Divinity at 4:30 p.m.

■ Thu., June 4—“**Chapel Service**” for seniors at 8:30 a.m.

### Berkland Baptist Church

99 Brattle St., Harvard Sq. (617) 828-2262, dancho@post.har-

vard.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 ldsbostoninstitute@yahoo.com.

### Congregation Lion of Judah

Spanish/English bilingual services 68 Northampton St., Boston, Mass. (617) 541-4455, info@leondejuda.org, www.leondejuda.org

■ Sunday services: 9 a.m. and noon

■ Adult Discipleship School: Sundays 10 a.m. and noon

■ Kidz for Children: Sundays 10 a.m. and noon

### 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 www.hds.harvard.edu Services are held during the fall and spring terms only.

■ HDS Wednesday Noon Service: 12:10 p.m. (617) 384-7571, jvowald@hds.harvard.edu

■ HDS Thursday Morning Eucharist: 8:30-9 a.m.

**Open Awareness Sangha** meets every Monday evening at 7:30 p.m. for meditation and discussion at Cambridge Friends Meeting House, Longfellow Park, off Brattle St. Inspired by the Tibetan traditions of Dzogchen and Mahamudra, services are open to all. (617) 297-2026, www.openawarenesssangha.org.

### 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 Congregational Church Somerville

**UCC** is a progressive community rich in young adults. Come Sunday mornings at 10 a.m. for creative worship and fellowship, or Wednesdays at 6:15 p.m. for Rest and Bread, a reflective communion and prayer service. First Church, 89 College Ave., Somerville. www.firstchurchsomerville.org.

### First Reformed Presbyterian Church of Cambridge (RPCNA)

53 Antrim St. Cambridge, MA 02139 (617) 864-3185 www.reformedprescambridge.com Sunday worship at 11 a.m. and 6 p.m. Christian counseling available by appointment.

### First United Presbyterian Church (PCUSA)

1418 Cambridge St. Inman Square (617) 354-3151 www.cambridgepres.com Sunday Worship at 10 a.m. Weekly small group for young adults; pallikk@fas.harvard.edu.

**Fo Guang San ’V International Buddhist Progress Society** holds a traditional service every Sunday at 10 a.m. with a free vegetarian lunch. 950 Massachusetts Ave. Open Mon.-Sun., 10 a.m.-6 p.m. for meditation. (617) 547-6670.

**Grace Street Church** holds a Sunday evening service at 6 p.m. in the ball-

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room of the Sheraton Commander Hotel, 16 Garden St. All are welcome. (617) 233-9671, www.gracestreet.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.

■ Tuesdays: Mind training course, “Seven Points of Mind Training,” 6-7 p.m. (practice), 7:30-9 p.m. (class).

■ Fridays: “Uttaratantra,” 6-7 p.m. (practice), 7:30-9 p.m. (class).

**Harvard Chabad** holds 10 a.m. morning services during the academic year; winter services at 6:30 p.m.; and services 15 minutes after sundown the rest of the year. Harvard Chabad, 38 Banks St. For additional programming, schedule, and information, (617) 547-6124, www.chabadharvard.org.

**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/huums/.

**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.

**St. Peter’s Episcopal Church**

(617) 547-7788, www.saintpeterscambridge.org

Located at 838 Massachusetts Ave. in Central Square.

■ Morning prayer services, weekdays at 8 a.m.

■ Evening worship, Wednesdays, at 6 p.m., followed by a meal and forum.

■ Sunday services are 8 a.m. contemplative service, and 10:30 a.m. sung Eucharist with Sunday School. Open to all.

**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 1350 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 mfuness@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@ctkcambbridge.org, www.ctkcambbridge.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**

A diverse, inclusive, inspiring community of Humanists, atheists, agnostics, and the non-religious at Harvard and beyond. For up-to-the-minute updates, join Chaplain Greg Epstein on Facebook, www.facebook.com. Join us: www.harvardhumanist.org for e-newsletter, event details, and more. Humanist Graduate Student Pub Nights: Queen’s Head Pub, Memorial Hall, every other Thursday. “Humanist Small Group” Sunday Brunch: every other Sunday. For Harvard students, faculty, alumni, and staff.

**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 @ Berman**, a group of blogging enthusiasts and people interested in Internet technology, meets at the Berkman

Center on the second floor of 23 Everett St., Cambridge, on Thursday evenings at 7 p.m. People of all experience levels and those who would like to learn more about weblogs, XML feeds, aggregators, wikis, and related technology and their impact on society are welcome. http://blogs.law.harvard.edu/thursdaymeetings/.

The **COACH Program** seeks Harvard college and graduate students to serve as “college coaches” in the Boston Public Schools to assist young people in applying to college and developing plans for after high school. COACH is looking for applicants interested in spending about three hours per week working with high school juniors and seniors in West Roxbury. Interested students should call (917) 257-6876 or e-mail asamuels@law.harvard.edu.

**Harvard’s EAP** (Employee Assistance Program) provides free, confidential assessment and referral services and short-term counseling to help you work through life’s challenges. Harvard faculty, staff, retirees, and their household members can access the following services throughout the U.S. and Canada 24 hours a day, 7 days a week: confidential assessment, information, referral; consultation to supervisors around employee well-being, behavior, or performance; individual and group support around a workplace crisis, serious illness, or death; and on-site seminars. In addition, Harvard’s EAP can help with workplace conflicts, personal and family relationships, eldercare planning, legal consultations, financial counseling and planning, sexual harassment, workplace and domestic violence, alcohol and drug use, and more. To schedule an appointment near your office or home, call the EAP’s toll-free number at **1-EAP-HARV (1-877-327-4278)**.

Counselors are available to answer your calls from 8:30 a.m. to 7 p.m. Monday through Thursday, and from 8:30 a.m. to 5 p.m. on Friday; urgent calls will be answered by crisis clinicians round the clock. You may also visit www.wellnessworklife.com for further information and access to other resources available to you as a Harvard employee (there is a one-time confidential registration process; please visit www.harvie.harvard.edu for login instructions).

**Harvard Lesbian/Bisexual/Transgender/Queer Women’s Lunch** is

a chance for lesbian/bi/trans/queer women staff and faculty at Harvard to meet informally for lunch and conversation. Meetings take place 12:30-1:30 p.m. outside Dudley House. You can bring lunch or buy at Dudley House. In case of rain, meet in the mezzanine of Boylston Hall. E-mail jean\_gauthier@harvard.edu, dmorley@fas.harvard.edu, or linda\_schneider@harvard.edu for more information.

■ **Next meeting: Wed., June 3**

**Harvard Lesbian, Gay, Bisexual & Transgender Faculty & Staff Group.**

(617) 495-8476, ochs@fas.harvard.edu, www.hglc.org/resources/faculty-staff.html.

**Harvard Student Resources**, a division of Harvard Student Agencies, employs a work force of more than 300 students to provide temporary clerical work, housecleaning, tutoring, research, moving, and other help at reasonable rates. **HSA Cleaners**, the student-run dry cleaning division of Harvard Student Agencies, offers 15 percent off cleaning and alterations for Harvard employees. (617) 495-3033, www.hsa.net.

**Harvard Student Spouses and Partners Association (HSSPA) Spouses Support Group** is a social group where you can

meet other spouses who might help you to get used to your new situation as a spouse or partner at Harvard University. Our support group meets weekly all year long. Please e-mail 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 Wednesdays, 6:45-7:45 p.m., in room 332, Littauer Building, HKS. jkhartshorne@gmail.com.

**The Harvard Trademark Program** has redesigned its Web site to better meet the needs of the public and members of the Harvard community who are seeking information about the Harvard Trademark Program’s licensing activities and trademark protection efforts as well as information regarding the various policies governing the proper use of Harvard’s name and insignias. trademark\_program@harvard.edu, www.trademark.harvard.edu.

**Harvard Veterans Alumni Organization** is open to all members of the Harvard University community who are, or have served, in the U.S. military. Visit www.harvardveterans.org for information and to participate.

**LifeRaft** is an ongoing drop-in support group where people can talk about their own or others’ life-threatening illness, or about their grief and bereavement. Life Raft is open to anyone connected with the Harvard Community: students, faculty, staff, retirees, and families. Life Raft is free and confidential and meets on Wednesdays, noon-2 p.m. in the Board of Ministry Conference Room on the ground floor of the Memorial Church. Come for 10 minutes or 2 hours. (617) 495-2048, 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.

**Weight Watchers@Work at HDS** classes are available Tuesdays, 1:15-2 p.m. at the Center for the Study of World Religions, 42 Francis Ave. The cost for the series of 12 meetings is \$156. (617) 495-4513, srom@hds.harvard.edu.

# Opportunities



Job listings posted as of May 28, 2009

**H**arvard 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/findingajob/>.

Please Note:

*The letters "SIC" at the end of a job listing indicate that there is a strong internal candidate (a current Harvard staff member) in consideration for this position.*

## Academic

**Research Fellow (Postdoctoral) Req. 36426**, Gr. 000  
Harvard School of Public Health/Biostatistics  
FT (4/2/2009)

## Alumni Affairs and Development

**Director of Development, Corporations and Foundations Req. 36545**, Gr. 060

Harvard Medical School/Resource Development  
FT (4/23/2009)

**Executive Director of Alumni and Development Services Req. 36675**, Gr. 061

Harvard Medical School/Office of Resource Development  
FT (5/21/2009)

**Senior Director of Development, Principal & Major Gifts Req. 36686**, Gr. 061

Harvard Medical School/HMS-ORD  
FT (5/28/2009)

**Senior Development Officer Req. 36558**, Gr. 059

Harvard Business School/External Relations  
FT (4/30/2009)

**Senior Development Officer Req. 36558**, Gr. 059

Harvard Business School/External Relations  
FT (4/30/2009)

## Arts

**Assistant Technical Director (Mechanical) Req. 36316**, Gr. 055

American Repertory Theatre/A.R.T. Scene Shop  
FT (3/12/2009)

## Athletics

**Assistant Coach of Women's Tennis Req. 36670**, Gr. 055

Faculty of Arts and Sciences/Athletics  
PT (5/21/2009)

**First Assistant Coach of Men's Ice Hockey Req. 36625**, Gr. 056

Faculty of Arts and Sciences/Athletics  
FT (5/14/2009)

## Facilities

**Area Manager in the Houses Req. 36376**, Gr. 057

Faculty of Arts and Sciences/FAS Physical Resources & Planning  
FT (3/26/2009)

**Custodian A Req. 36556**, Gr. 003

Harvard Medical School/Custodial Services  
Union: SEIU Local 615 Custodial Group, FT (4/30/2009)

**Auxiliary Operating Engineer Req. 36410**, Gr. 029

University Operations Services/Engineering & Utilities  
Union: ATC/IUOE Local 877, FT (4/2/2009)

## Faculty & Student Services

**Assistant Dean for Admissions Req. 36549**, Gr. 060

Harvard Law School/Admissions  
FT (4/23/2009)

**Assistant Director for JD Advising Req. 36579**, Gr. 057

Harvard Law School/Office of Career Services  
FT (5/7/2009)

**Assistant Director of Financial Aid Req. 36652**, Gr. 057

Division of Continuing Education/Financial Services/DCE  
FT (5/21/2009)

## Finance

**Associate Director (Capital Reserve) Req. 36630**, Gr. 060

Financial Administration/Office of Treasury Management  
FT (5/14/2009)

**Sponsored Research Administrator Req. 36308**, Gr. 056

Faculty of Arts and Sciences/Stem Cell & Regenerative Biology  
FT (3/12/2009)

**Senior Sponsored Research Administrator Req. 36601**, Gr. 056

Harvard Medical School/Sponsored Programs Administration  
FT (5/7/2009)

**University Controller Req. 36620**, Gr. 063

Financial Administration/Vice President for Finance  
FT (5/7/2009)

**Information Security Project Manager and Analyst Req. 36422**, Gr. 057

Faculty of Arts and Sciences/FAS Office of Finance  
FT (4/2/2009)

**Financial Analyst Req. 36527**, Gr. 056

Faculty of Arts and Sciences/HSCI  
FT (4/23/2009)

**Controller Req. 36489**, Gr. 059

Harvard Law School/Financial Services  
FT (4/16/2009)

**Assistant Director of Sponsored Programs Req. 36424**, Gr. 058

Harvard School of Public Health/Sponsored Programs Administration  
FT (4/2/2009)

**Sponsored Research Administrator Req. 36643**, Gr. 056

Faculty of Arts and Sciences/Stem Cell & Regenerative Biology  
FT (5/21/2009)

**Grants and Contracts Specialist Req. 36339**, Gr. 056

School of Engineering & Applied Sciences  
FT (3/19/2009)

## General Administration

**Regulatory Affairs Officer Req. 36571**, Gr. 056

Harvard Medical School/CTSC  
FT (4/30/2009)

**Senior Program Officer Req. 36655**, Gr. 056

Harvard School of Public Health/Center for Health Communication  
FT (5/21/2009)

**Director of Administration Req. 36478**, Gr. 059

Harvard School of Public Health/Global Health and Population  
FT (4/16/2009)

**Staff Assistant (I) - (HR) Req. 36663**, Gr. 049

Harvard School of Public Health/Human Resources  
Union: HUUCTW, PT (5/21/2009)

**Assistant Provost for Research Policy Req. 36649**, Gr. 061

University Administration/Office for Research and Compliance  
FT (5/21/2009)

**Director of Strategic Priority Management Req. 36690**, Gr. 061

Harvard School of Public Health/Dean's Office  
FT, SIC, (5/28/2009)

**Compliance Instructional Designer Req. 36361**, Gr. 057

Harvard School of Public Health/Office of Financial Services  
FT (3/19/2009)

**Regulatory Affairs Operations Manager Req. 36570**, Gr. 058

Harvard Medical School/CTSC  
FT (4/30/2009)

**Vice President, Research Administration Req. 36695**, Gr. 061

Harvard School of Public Health/Sponsored Programs Administration  
FT (5/28/2009)

**Research Director Req. 36656**, Gr. 056

Faculty of Arts and Sciences/The Pluralism Project  
PT (5/21/2009)

**Attorney Req. 36672**, Gr. 059

Office of the General Counsel/Office of General Counsel  
FT (5/21/2009)

**Senior Administrator of Physician Training Req. 36504**, Gr. 059

Harvard Medical School/CTSC  
FT (4/16/2009)

**Associate Research Director for Financial Design Req. 36320**, Gr. 058

Faculty of Arts and Sciences/ideas42

FT (3/12/2009)

**Associate Director for Neuroimaging Req. 36632**, Gr. 058

Faculty of Arts and Sciences/Center for Brain Science  
FT (5/14/2009)

**Executive Assistant Req. 36626**, Gr. 054

University Administration/Office of the President  
Union: HUUCTW, FT (5/14/2009)

## Health Care

**Occupational Health and Safety Nurse Req. 36524**, Gr. 057

Harvard Medical School/NEPRC  
FT (4/23/2009)

## Human Resources

**Associate Director of Human Resources Req. 36673**, Gr. 059

University Administration/Office of the President and Provost/Harvard Human Resources  
FT (5/21/2009)

**Senior Human Resource Consultant Req. 36595**, Gr. 058

Harvard College Library/Harvard College Library Human Resource Services  
FT (5/7/2009)

## Information Technology

**Systems Administrator for Neuroimaging Req. 36328**, Gr. 057

Faculty of Arts and Sciences/FAS IT  
FT (3/12/2009)

**Director of Information Systems Req. 36364**, Gr. 059

Faculty of Arts and Sciences/Harvard College Financial Aid  
FT (3/19/2009)

**Systems Administrator Req. 36634**, Gr. 057

Faculty of Arts and Sciences/Language Resource Center  
FT (5/14/2009)

**Scientific Systems Administrator Req. 36366**, Gr. 057

Harvard School of Public Health/Biostatistics  
FT (3/26/2009)

**Senior Network Engineer Req. 36604**, Gr. 058

Harvard Business School/Information Technology Group  
FT (5/7/2009)

**Senior Software Engineer/Database Developer Req. 36694**, Gr. 058

University Information Systems/ITIS/UIS  
FT (5/28/2009)

**Scientific Data Curator Req. 36505**, Gr. 056

Harvard School of Public Health/Biostatistics  
FT (4/16/2009)

## Library

**Head of Cataloging Req. 36503**, Gr. 057

Harvard Divinity School/Andover-Harvard Theological Library  
FT (4/16/2009)

**Project Book Conservator Req. 36563**, Gr. 056

Harvard University Library/Weissman Preservation Center  
FT (4/30/2009)

**Head of Cataloging Req. 36502**, Gr. 058

Harvard Divinity School/Andover-Harvard Theological Library  
FT (4/16/2009)

## Research

**Research Associate, Global Research Group Req. 36692**, Gr. 056

Harvard Business School/Division of Research and Faculty Development  
PT (5/28/2009)

**Research Coordinator Req. 36687**, Gr. 054

Harvard School of Public Health/Nutrition  
Union: HUUCTW, FT (5/28/2009)

**Bioinformatics Data Manager Req. 36612**, Gr. 056

Harvard School of Public Health/Biostatistics  
FT (5/7/2009)

**Scientific Programmer Req. 36383**, Gr. 057

Harvard School of Public Health/Epidemiology: Program in Molecular and Genetic Epidemiology (PMAGE)  
FT (3/26/2009)

**Research Associate Req. 36607**, Gr. 055

Harvard Business School/Division of Research & Faculty Development  
PT (5/7/2009)

**Research Analyst Req. 36498**, Gr. 056

Graduate School of Education/Center for Education Policy Research  
FT (4/16/2009)

**Research Developer and Analyst Req. 36613**, Gr. 056

Faculty of Arts and Sciences/EdLabs  
FT (5/7/2009)

**Staff Scientist - Protein Expression & Engineering Req. 36658**, Gr. 058

School of Engineering & Applied Sciences/Wyss Institute  
FT (5/21/2009)

**Research Associate Req. 36696**, Gr. 055

Harvard Business School/Division of Research & Faculty Development  
PT (5/28/2009)

**Research Analyst Req. 36310**, Gr. 056

Harvard School of Public Health/Center for Biostatistics in AIDS Research  
FT (3/12/2009)

**Scientific Programmer Req. 36334**, Gr. 057

Harvard School of Public Health/Epidemiology  
FT (3/19/2009)

**Statistical Programmer/Data Analyst Req. 36668**, Gr. 057

Harvard Medical School/Health Care Policy  
FT (5/21/2009)

**Research Assistant (II) - Non Lab (Research Specialist) Req. 36440**, Gr. 053

Harvard School of Public Health/Nutrition  
Union: HUUCTW, FT (4/9/2009)

**Staff Scientist - Bioinspired Robotics Req. 36495**, Gr. 058

School of Engineering & Applied Sciences/Wyss Institute  
FT (4/16/2009)

**Laboratory Manager Req. 36641**, Gr. 059

School of Engineering & Applied Sciences/Wyss Institute  
FT (5/21/2009)

**Head of Magnetic Resonance Physics Req. 36553**, Gr. 060

Faculty of Arts and Sciences/Center for Brain Science  
FT (4/30/2009)

**Research Associate Req. 36680**, Gr. 058

Graduate School of Education/GSE Research  
FT (5/28/2009)

**Bioinformatics Data Analyst Req. 36611**, Gr. 057

Harvard School of Public Health/Biostatistics  
FT (5/7/2009)

**Project Manager (Research) Req. 36635**, Gr. 058

Faculty of Arts and Sciences/Chemistry & Chemical Biology  
FT (5/14/2009)

**Statistical Programmer/Data Analyst Req. 36370**, Gr. 057

Harvard Medical School/Health Care Policy  
FT (3/26/2009)

**Project Manager Req. 36653**, Gr. 057

Harvard Law School/Berkman Center for Internet & Society  
FT (5/21/2009)

## Technical

**Staff Engineer (Electrical) Req. 36683**, Gr. 058

School of Engineering & Applied Sciences/Wyss Institute  
FT (5/28/2009)

**Assistant Director of Research Operations Req. 36462**, Gr. 058

Faculty of Arts and Sciences/Stem Cell & Regenerative Biology  
FT (4/9/2009)

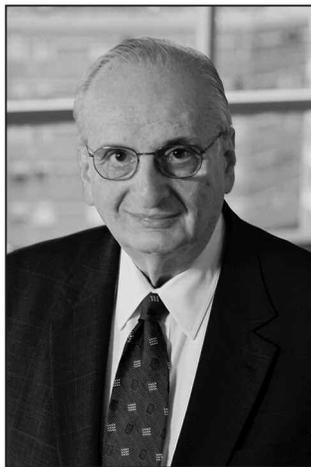
**Neurotechnology Engineer Req. 36554**, Gr. 057

Faculty of Arts and Sciences/Center for Brain Science  
FT (4/30/2009)

## Faculty of Medicine — Memorial Minute

*His devotion to patients and families was legendary, as was their appreciation of his technical skills and personal warmth. ...*

*When as a young man, Judah told his father that he would become a physician instead of a rabbi, his father responded, “then you will become a rabbi-like doctor”; and that is exactly what Judah did.*



Judah Folkman

Judah Folkman was born Moses Judah Folkman in 1933. The son of a rabbi, he became inspired to become a physician as a young boy when visiting ailing members of the congregation with his father. He soon became fascinated with science and medicine, and as a high school student he devised a perfusion system in his basement that maintained the viability of a beating rat heart for days after surgical removal. This led to his admission at age 15 to nearby Ohio State University, where Judah worked part-time all four years in the surgical laboratory of Dr. Robert Zollinger. He quickly mastered surgical skills and became an active participant in the exciting world of academic surgery. Judah entered Harvard Medical School at 19, where he was welcomed into the laboratory of Dr. Robert Gross, then Surgeon-in-Chief at Children's Hospital. There, he invented the first implantable heart pacemaker. Based on his scientific contributions, Judah was elected to the AOA and received the Boylston Medical Prize, Soma Weiss Award, and Borden Undergraduate Research Award in Medicine, when he graduated magna cum laude from HMS in 1957.

Judah became a surgical resident at Massachusetts General Hospital where he had his first introduction to Pediatric Surgery under the mentorship of Dr. W. Hardy Hendren. Midway through his residency, Judah married the love of his life, Paula Prial, who was to become the mother of his wonderful daughters, Marjorie and Laura, and his closest confidant for the remainder of his life. Soon thereafter, Judah enlisted in the United States Navy to fulfill his military obligations for two years. He did research on artificial blood substitutes at the National Naval Medical Center. In the course of this work, he invented the first implantable device for sustained drug-release that was later known as Norplant, which he donated patent-free to the World Population Council for use as a contraceptive. While in the Navy, Judah also observed that tiny fragments of tumor could remain viable, but would not grow beyond approximately one millimeter in diameter, when implanted into an isolated perfused thyroid. This led to his provocative proposal that tumors must stimulate growth of new blood capillaries to provide oxygen and nutrients necessary for their continued proliferation and expansion as a process known as “tumor angiogenesis”. He also reasoned that cancer growth might be held in check by inhibiting this process.

Judah Folkman returned to MGH to complete his training in 1962, and became Chief Resident. There, he jury-rigged materials to create a renal dialysis system for a patient with acute renal failure, and saved the patient's life. He assumed his first faculty position as an Assistant Professor of Surgery on the Harvard Surgical Service at the then Boston City Hospital in 1965. In a tiny laboratory in the basement of the Sears Surgical Building, he began

in earnest his career-long study of tumor blood vessels that would ultimately open up the new field of vascular biology. Based on his keen intelligence, outstanding clinical skills and scientific promise, Judah was soon selected to succeed Gross as the Surgeon-in-Chief at Children's Hospital. However, he chose to acquire six months of additional Pediatric Surgery training under Dr. C. Everett Koop at the Children's Hospital of Philadelphia, before he assumed this position at the unprecedented young age of 35 in 1967.

As faculty member and surgeon at HMS and Children's Hospital, Judah was known as a talented and caring surgeon, a gifted teacher, and a master of differential diagnosis. Crowds of students and residents swarmed around him on rounds because of his ability to meld modern biology with clinical practice, and he was the recipient of numerous HMS teaching awards for his introductory lectures to first and second year students. His devotion to patients and families was legendary, as was their appreciation of his technical skills and personal warmth. Judah even made time for those he had never met but who sought his counsel, returning phone calls every day when he returned home from the lab late at night, to be sure that he addressed each patient's needs. When as a young man, Judah told his father that he would become a physician instead of a rabbi, his father responded, “then you will become a rabbi-like doctor”; and that is exactly what Judah did.

Despite his heavy administrative burden and extensive surgical responsibilities, Judah remained passionate about his mission as physician-scientist, and continued to expand his research efforts focused on tumor angiogenesis. In 1974, Judah changed academic medicine and Harvard University by accepting the first large industrial-funded research grant from Monsanto Company to support his cancer research. As a result, for the first time, Harvard permitted its faculty to submit patents covering medical inventions. Judah's successful experiment in corporate funding also paved the way for industrial support of academic research laboratories at universities and research institutions across the nation, which is commonplace today.

In 1981, Judah elected to relinquish clinical leadership of the department of Pediatric Surgery to work full-time in his burgeoning laboratory. Although Judah lacked formal expertise in biochemistry or cell biology, he had an uncanny ability to ask penetrating questions, and he had a single-mindedness and tenacity of purpose that was beyond description. He initially attracted HMS students, and gradually postdoctoral fellows and visiting scientists, to work in his Surgical Research Laboratory in the Enders Building at Children's Hospital, and systematically began to build the case for the tumor angiogenesis hypothesis.

Judah's angiogenesis theory was initially

met with great skepticism because he proposed that cancers secrete a ‘tumor angiogenesis factor’ to stimulate neovascularization, but it had not yet been identified or purified. He realized that the major obstacle was the lack of bioassays to identify this activity. As a great innovator, Judah developed multiple new experimental systems to measure and study angiogenesis factors, including the first capillary endothelial cell cultures, in vitro angiogenesis models, and sustained release polymers for testing of putative angiogenesis modulators in rabbit corneas. The availability of these assays led to the purification of the first tumor angiogenesis factor, basic fibroblast growth factor in 1984. This discovery was followed by the isolation and cloning of multiple angiogenic factors by researchers around the world, which confirmed the critical role of angiogenesis for tumor growth as well as many other diseases. Thanks to Judah's perseverance, admonition quickly became admiration and, as he used to say, “my critics soon became my competitors”.

Judah's tumor angiogenesis hypothesis launched an era of discovery and validation, during which his team at Children's Hospital discovered numerous additional angiogenic factors, as well as endogenous molecules that inhibit capillary growth, including angiostatin, endostatin, and angiostatic steroids, and they began deciphering the molecular basis of angiogenic control. This work led to development of numerous anti-angiogenic drugs, some of which entered human clinical trials, including TNP-470, Thalidomide, and Endostatin. There are now multiple angiogenesis inhibitors approved for clinical use, which are benefiting more than one million people worldwide. Judah's impact on cancer alone was impressive in that the FDA now recognizes anti-angiogenesis as an entirely new modality for the treatment of cancer, along with chemotherapy, radiation therapy and surgery. Equally impressive is that angiogenesis inhibitors have restored sight in patients who are blind due to age-related macular degeneration; these drugs have become the clinical standard of care in Ophthalmology.

Judah authored some 400 peer-reviewed papers and more than 100 book chapters and monographs. Over 38,000 articles have been published on angiogenesis, the field that he pioneered. He received scores of awards and honors for his distinguished research, including the National Institutes of Health's Christopher Columbus Discovery Award in Biomedical Research, American Cancer Society's Medal of Honor for Basic Science, Bristol-Myers Squibb's Award For Distinguished Achievement in Cancer Research, HMS's Warren Alpert Prize, Canada's Gairdner Foundation International Award, Israel's Wolf Foundation Prize in Medicine, Germany's Ernst Schering Prize, the Italian Association of Cancer Research in Rome's Gold Medal, the Unit-

ed Kingdom Society for Endocrinology's Dale Medal, and Switzerland's Dr. Josef Steiner Cancer Research Award. Judah also was elected to the National Academy of Sciences, Institute of Medicine, American Academy of Arts and Sciences, American Philosophical Society, and membership on the President's Cancer Advisory Board, in addition to receiving numerous honorary degrees from leading universities around the world. The research lab he founded with a single assistant when he arrived at Children's Hospital in 1967 had, by the time of his death, grown into a 125 scientist-strong Vascular Biology Program. And, more than 1000 labs around the world are now pursuing angiogenesis research, yielding thousands of angiogenesis-related publications each year.

Judah's contributions in the laboratory have permanently transformed our thinking about cancer and many other diseases, and they have pointed the way to novel strategies for their treatment. But Judah also was known for illuminating lectures that left his listeners spellbound, whether experts or novices, and that created innumerable new scientific converts as he traveled around the globe spreading his vision. His lecture style was enthralling, his enthusiasm contagious, and his self-deprecating humor a foil for the seriousness of his subject. Judah always shared his latest insights and unpublished data because he did not see his scientific competitors as enemies, but as potential allies. To Judah, the enemy was the disease he was trying to cure, or the technology he strived to develop to overcome obstacles that stood in his way.

Judah Folkman was an inspirational leader in everything that he did. For those of us who were blessed with the chance to work closely with him, we remember Judah best for his warmth, his humor, and his incredible mentoring skills. He mentored from the first light of day until his head hit the pillow and probably thereafter in his dreams. Most of all, however, Judah mentored by the example of his perseverance, his willingness to move in different directions, and his sheer boyish delight in discovery. Whereas most people saw a lump of coal and spurned others who strived to look further, Judah walked forth boldly, turned it over and found a diamond. He did this with experiments, but more importantly, he did this with people, whether patients, students, technicians, workmen, colleagues or competitors. His death on January 14, 2008 was a terrible loss to our community, and to the entire world. We will all miss him greatly.

Donald Ingber, MD, PhD (Chair, Folkman Memorial Minute Committee)

Patricia Donahoe, MD  
Michael Gimbrone, MD  
W. Hardy Hendren, MD  
Michael Klagsbrun, PhD  
Marsha Moses, PhD

**GAZETTE:** By all measures, this has been an extraordinary year in the markets. How would you characterize your first 10 months at the helm of HMC?

**MENDILLO:** The markets during this time have been unprecedented in the strength of their movements and the suddenness of their corrections. We're fortunate that the Harvard endowment is very well diversified, both globally and with regard to individual asset classes and strategies. We're also fortunate that the strong team here at HMC was able to very actively manage the portfolio, throughout this crisis. The Harvard portfolio was certainly not immune to strong market forces over the last year, and we have felt their impact. But over the long term, the endowment has done very well and we're confident it will continue to do well in the future, given the strategies and the plans we have in place.

**GAZETTE:** Back in December, the University reported that the endowment was down at least 22 percent through the end of October and that you're anticipating a negative 30 percent return for the fiscal year. Do those predictions hold?

**MENDILLO:** We're still estimating a negative 30 percent for the fiscal year, but given the volatility in the markets and the many assets we hold that are not traded on the public markets, it is difficult to predict with total accuracy where we will ultimately end the year. It is important to keep in mind that over the 10 years ending June 30, 2008, the average annual return on the endowment was 13.8 percent. It was 14.2 percent over the 20-year period ending June 30. Those returns are significantly higher than what we expect on average over the long term. So it stands to reason that returns going forward may well be lower than they have been over the last couple of decades. But we believe that we are well positioned, with a good mix of assets and strategies for facing the future.

We should note that although our returns during the economic crisis have been negative, they are not as sharply negative as many of the markets in which we participate. During this time period we have been very active in our management of the endowment — with the goal of increasing the flexibility of the overall portfolio and incrementally taking advantage of new investment opportunities. We continue to beat the returns generated by many other investors and believe our returns are in line with those being experienced by many of our peer universities. Many of the asset classes that gave us exceptional returns over the last decade have experienced strong reversals in the last several months, and we're all experiencing similar things.

**GAZETTE:** What have you learned as an investor over the past year?

**MENDILLO:** I think all investors have gotten a lesson in how fast and how far the markets can move. In recent months the value of our hybrid model of money management has become even more apparent — we are able to have a very close feel for the markets, trading every day here at HMC, and we can react to opportunities and threats on a more immediate basis than the average endowment. The combination of our team of internal money managers, who work exclusively for Harvard, with a set of carefully chosen external managers in different markets and asset classes across the globe is immensely powerful. The depth of understanding and the close feel for the markets we gain through the internal staff, and the breadth and glob-

# A conversation with Jane Mendillo

To read the full interview, visit [www.news.harvard.edu/gazette/2009/05.28/mendillo.html](http://www.news.harvard.edu/gazette/2009/05.28/mendillo.html)



Photos: Stephanie Mitchell/Harvard News Office

al perspective we get through our external managers, give us a perspective that we think is unique to endowment management. The hybrid model really gives us the best of both worlds.

**GAZETTE:** Some have raised concerns about aggressive investment strategies pursued by HMC. How would you respond?

**MENDILLO:** The Harvard portfolio was positioned very well for the market conditions of the last several years. We benefited from significant positive returns from areas such as commodities and private equity, which contributed significantly to the total return of our endowment for many years running. Yes, some of these investments caused us some pain this year — but this needs to be viewed in the context of the long-term positive that has been gained by these strategies. As the financial crisis has evolved over the last year, we have further developed our thinking about flexibility, risk, and diversification. This thinking has led us to new considerations and additional factors that we will be weaving into our long-term strategy and our active management of the portfolio going forward.

**GAZETTE:** Did diversification fail?

**MENDILLO:** First, let's remember that diversification is not a guarantee of positive annual returns — it can only work over the long term, and I would argue that over the long term, diversification has done very well for Harvard and many other investors. Second, I would not advocate that any investor pursue diversification simply for diversification's sake. The combination of assets and strategies we put into place must offer real value, through risk control and return potential.

To your question, over a short period this year, in the extreme market conditions that we experienced, all asset classes moved together in a financial wind shear. Such a sudden and abrupt correction isn't something that we can structure our portfolio to avoid. In most market conditions, wisely constructed diversification will provide a good degree of protection and benefit to the endowment portfolio.

This past year, despite the fact that all asset classes moved in the same direction at the same time, we did get some benefit in the portfolio from tail risk hedging strategies that were designed to gain from outlier events in the financial markets. So, as we saw some of these very unusual outlier events come to fruition, our tail risk hedges worked to help counterbalance some of the negative forces we were feeling throughout the rest of the portfolio.

**GAZETTE:** Some blame the level of leverage in Harvard's portfolio for its current challenges. Is this fair?

**MENDILLO:** Our endowment's exposure to the markets provided exceptional gains over the last several years, but also involved investment strategies that decreased the flexibility in the portfolio. When I started at HMC in July, the board had already begun to increase the endowment's cash position, in order to increase flexibility. I accelerated the move in this direction over my first few months in the job, the early part of the fiscal year. Feeling that there were some disruptive elements in the markets and that we would see significant positive and attractive opportunities for new investments coming out the other side of the financial storm, we felt it was critical to create more flexibility for the portfolio going forward.

**GAZETTE:** Is there anything in hindsight that could have been done to prevent the market meltdown?

**MENDILLO:** From where we stand today, we can see there was a lot of mispricing of risk in many markets over the last several years. Investors simply were not being paid a very high price to assume risk, and so many overly eager investors across the world added increasing levels of risk to their portfolios, as they attempted to earn higher returns. The sense of balance between the expected return from those incremental investments and the amount of risk that was being added to the portfolios was lost. Some of Harvard's tail risk hedging strategies were based on this imbalance. After many years, the markets reached a tipping point this past year — risk was suddenly apparent everywhere — and prices dropped precipitously as investors sought to curb their losses. Looking back, such a meltdown was probably in the cards for many reasons, whether we cite easy lending practices, inadequate credit ratings, or an excess of capital, on a worldwide basis. The trade-off between return and risk was clearly out of kilter.

**GAZETTE:** HMC's compensation practices have received a great deal of scrutiny in recent years, and in the past year, executive compensation in the finance industry has received much wider scrutiny. Can you talk about the compensation structure and whether you think you'll be making changes?

**MENDILLO:** The compensation structure at HMC is based on the principle that managers are eligible for incentive compensation if they beat their market benchmark through active

portfolio management. If they're able to beat the market, they receive a bonus that is partly paid out in the first year and partly held back for potential underperformance in future years. So we pay for outperformance, but only if it is sustained over time. Market-beating investment performance that can be sustained over time is rare, and adds much, much more value to the portfolio than the associated compensation costs.

**GAZETTE:** What is an appropriate level of compensation for investment managers?

**MENDILLO:** Harvard University's enduring excellence is due in large part to its ability to attract the best of the best. That is as apparent at the Harvard Management Company as it is at the University. In truth, however, the cost of investment management at HMC, where we use internal managers to actively manage a good portion of the endowment portfolio, is significantly

less than the average in the field of investment management, and our performance is significantly better. The HMC board also reviews the HMC compensation system regularly to ensure that it is consistent with the trends in the industry and appropriate for the University.

Unlike employees at a traditional investment company, our top managers are attracted to HMC because they want to help support the University's goals of education and research. I am continually impressed by those who are willing to forgo top-dollar compensation arrangements in order to be a part of this mission and team.

**GAZETTE:** HMC announced layoffs at the beginning of the year. Are you shrinking the size of the endowment management unit to reflect a shrinking endowment?

**MENDILLO:** No. The recent staffing changes were part of a rebalancing plan that I implemented as the new CEO, a plan that was formed beginning in the first days after I returned to HMC. Remember, I had 15 years of prior experience with the company, and with how we managed the portfolio and the staffing and support related to the variety of asset classes in which we operate. As a result, I already had some thoughts on how the company should be organized when I returned. I developed a plan for optimizing the structure of the company with the new COO of HMC and the heads of our internal and external management teams. The staffing plan currently reflects a strategic balance between investment strategy and support functions that we think is very appropriate to the portfolio and the management activities we anticipate going forward.

**GAZETTE:** What advice would you give an individual investor reading this interview? What lessons can be learned from the last year, and how should we think about the year or years ahead?

**MENDILLO:** For an individual investor, I think that the most valuable lesson of the last year is that none of us can predict where the markets are going to go next week or next month, and so we should avoid positioning ourselves too aggressively for one set of conditions versus another. Keep your focus on the long-term goal — positive long-term average returns with tolerable volatility. If we maintain the principles of balancing risk and return, looking for market inefficiencies and investing in assets that hold growth potential for the future, our portfolios, over time, will recover and flourish.

# Evolution

(Continued from page 1)

for the Study of Latin America Jonathan Losos; the evolution of mammalian ear bones from analogs in reptilian jawbones, on which former Museum of Comparative Zoology Director Fuzz Crompton worked; and Anthropology Professor Maryellen Ruvolo's work on the molecular roots of humankind.

The exhibit tackles several major topics in evolution, including variation, which it terms the "raw material" of natural selection, natural selection itself, adaptive radiation, and convergent evolution, among others. It also presents a timeline of life, showing the progression from microbe to simple animal to complex animal to — very near the timeline's end — humans.

The exhibit unequivocally highlights evolution's central role in modern biological science, stating prominently that "evolution is a fact" and calling it "an essential truth supported by overwhelming scientific evidence."

The evolution gallery is the first that visitors pass through when they enter the Museum of Comparative Zoology (MCZ), one of the HMNH's three parent museums. Though that location is partly due to available space, HMNH Executive Director Elisabeth Werby said the location is important because "Evolution" underlies the exhibits visitors will find beyond, in galleries dedicated to the development and use of color in nature and to the enormous diversity of arthropods, and in halls dedicated to fossils, mammals, and other creatures.

The exhibit was paid for with a gift from members of the Class of 1958, which last year celebrated its 50th reunion. MCZ Director James Hanken, Agassiz Professor of Zoology, said there was tremendous interest from class members in having Harvard weigh in directly on the issue, which has been under scrutiny in broader society.

"The enthusiasm was really overwhelming," Hanken said.

Michael Margolies, a member of the Class of 1958 who spearheaded the fundraising effort, said the donation to the museum was separate from the Class Gift typically made at reunion time and that a significant number of those approached agreed to give.

"What resonated a good deal — and surprised us — was that many people felt it was an important statement to make in the culture wars in this country," Margolies said. "I was delighted to have the privilege to be part of it."

Werby said the new permanent exhibit is the museum's most significant achievement during Darwin Year, a celebration of the 150th anniversary of the publication of "On the Origin of Species" and the 200th anniversary of Charles Darwin's birth.

In addition to specimens from the MCZ's collections, the exhibition includes interactive video terminals and a small theater space, where visitors can hear Harvard faculty members talk about major topics in evolution and in their own work. Werby said the space will also serve to give the museum a place to host gallery talks on other topics. The exhibit includes several displays that are designed to be changed, allowing the HMNH exhibits staff to update the gallery with new developments or to highlight the work of different faculty members.

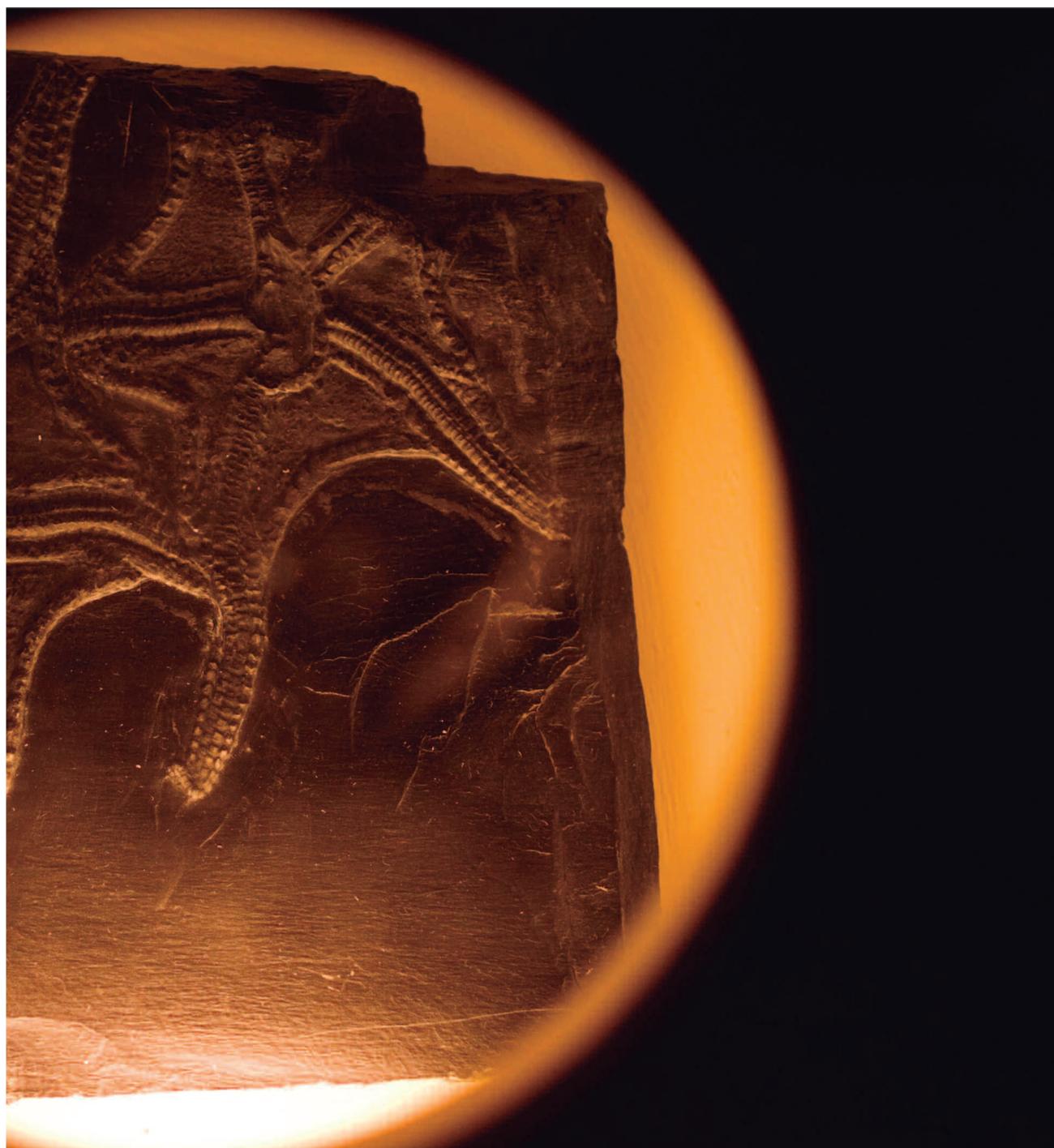
"It will evolve," Hanken said.



The executive director of HMNH Elisabeth Werby leads a walk-through of the new exhibit on evolution.



A detail image of *Liguus fasciatus* — the Florida tree snail (above).



A detail image of a Devonian period starfish (*Asteroidea*) found in Germany.



MCZ Director James Hanken (above) guides visitors through the exhibit. A detail (above, right) of some members of the Hominin family tree.

