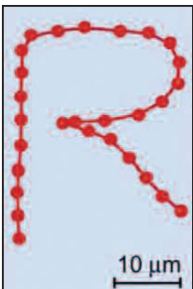


Inside & ONLINE



Nanocontrol

Researchers have created new microscopic swimmers that may turn out to be nanoworkhorses.
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In a strange land

Medieval travelogues illuminate how voyagers articulated concepts of the 'foreign.'
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Doyle's variety

Experts and 'Irregulars' gather to appreciate the many works of Arthur Conan Doyle.
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Terra incognita

A space telescope's mission is the detection of habitable planets orbiting other stars.
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Enhanced financial aid keeps Harvard's yield high

Harvard's recently enhanced financial aid program has been crucial in maintaining a high yield on the students admitted to the College. A total of 2,048 students were admitted to the Class of 2013 from a record applicant pool of 29,114. Currently, 76 percent of the admitted students intend to enroll, the same percentage as last year.

"Over 60 percent of the Class is expected to qualify for financial assistance, an unprecedented number," said William R. Fitzsimmons, dean of admissions and financial aid. "The dramatic economic downturn of recent months has severely compromised the ability of many families to assist their daughters and sons with college costs. Our new financial aid program arrived none too soon to enable these promising students to come to Harvard. We are very grateful for the unwavering commitment of Michael Smith, dean of the Faculty of Arts and

Sciences, Evelyn Hammonds, dean of Harvard College, and Drew Faust, president of Harvard University, to keep Harvard open to talented students from all economic backgrounds," he said.

There has also been a substantial increase in the numbers of African-American and Latino students. This year, 10 percent of the incoming Class

(See *Yield*, page 8)

Painterly



Stephanie Mitchell/Harvard News Office

This extraordinary photograph, shot through a glass block at the Carpenter Center, is one of many images that make up the first slide show in a series called *Harvard Up Close*. The series asks us to pause the fast pace of our daily lives to appreciate details around campus that provide a stunning backdrop to all the University's activities. Visit www.hno.harvard.edu/multimedia/slides.html.

Embryo's heartbeat drives blood stem cell formation

By Nancy Fleisler

Special to the Harvard News Office

Biologists have long wondered why the embryonic heart begins beating so early, before the tissues actually need to be infused with blood. Two groups of Harvard Stem Cell Institute (HSCI) researchers from Children's Hospital Boston (Children's) and Brigham and Women's Hospital (BWH) — presenting multiple lines of evidence from zebrafish, mice, and mouse embryonic stem cells — provide an intriguing answer: A beating heart and blood flow are necessary for development of the blood system, which relies on mechanical stresses to cue its formation.

Their studies, published online by the journals *Cell* and *Nature* on May 13, together offer clues that may help in treating blood diseases such as leukemia, immune deficiency, and sickle cell anemia, suggesting new ways scientists can make the types of blood cells a patient needs. This would help patients who require marrow or cord blood transplants, who do not have a perfect donor match.

One team, led by Grousebeck Professor of Pediatrics Leonard Zon of the Division of Hematology/Oncology at Children's and director of its stem cell research program, used zebrafish, whose transparent embryos allow direct observation of embryonic development. Publishing in *Cell*, Zon and col-

(See *Zebrafish*, page 8)



Image courtesy of Wolfram Goessling and Trista North

In this fluorescent image of a zebrafish embryo, endothelial cells (blood vessels) are labeled green and erythrocytes (red blood cells) are labeled red and imaged by confocal microscopy.

This month in Harvard history

May 26, 1902 — The Harvard Corporation approves the construction of a temporary addition to the south side of Boylston Hall. Completed over the summer and measuring 83 by 33 feet, the add-on consists of a single large laboratory for elementary-chemistry classes and a general-use basement. The addition opens in the fall, with a stucco exterior to match Boylston's rough granite finish. (Wigglesworth Hall will not occupy part of this site until the early 1930s.)

May 31, 1902 — Harvard welcomes the French delegation that attended the May 24 dedication of a replica of Fernand Hamar's bronze statue of Jean-Baptiste-Donatien de Vimeur, Comte de Rochambeau, in Washington's Lafayette Park (across from the White House).

Led by French Ambassador Jules Cambon, the group (which includes the Comte and Comtesse de Rochambeau, representing the family; and the Comte de Sahune de Lafayette, representing the family of the Marquis de Lafayette) attends part of the Harvard-Yale freshman baseball game at Soldiers Field, enjoys a reception with President Charles William Eliot in the Faculty Room of University Hall, and takes a drive around the University.

In Sanders Theatre, Alfred Croiset, Dean of the Faculty of Letters at the Sorbonne, delivers an address in French. After a late-afternoon tea at Phillips Brooks House, the delegation returns to Boston.

May 25, 1905 — On Ralph Waldo Emerson's birthday, Harvard dedicates Emerson Hall (the first building in America devoted exclusively to philosophy) by hosting a national meeting of the American Philosophical Association. The then-large sum of \$208,485 was needed to build and equip the hall. The Philosophy Department had previously functioned in locations scattered around the College.

May 1931 — The George Edward Woodberry Poetry Room — a gift of Harry Harkness Flagler — opens on the third floor of Widener Library. (The room is now in Lamont Library.)

May 8, 1939 — Near Austin Hall, the new Littauer Center of Public Administration is dedicated.

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

FACULTY COUNCIL

At its 12th and final meeting of the year on May 13, the Faculty Council discussed the review of the Harvard College Administrative Board, considered proposals to allow freshman seminars to fulfill General Education requirements and consolidate certain standing committees. The Council also reviewed changes to the Harvard College Handbook for students for 2009-10 and approved the Courses of Instruction for 2009-10.

High fly



Katherine C. Cohen/Harvard News Office

Atop one of the walls flanking the steps of Widener Library, a student makes a daring grab during a game of catch.

New Web page addresses travelers' health safety

Because of the recent outbreak of the H1N1 influenza, commonly called the "swine flu," Harvard University Health Services (HUHS) and the Provost's Office have created a new Web site to address concerns regarding the medical safety of international travel. The site contains links to the latest flu information and travel advisories in addition to tips on how to be proactive, prepared, and pro-

tected when traveling abroad. As always, the most important precaution against the flu is to practice good hygiene by regularly washing your hands and covering coughs. It is essential that Harvard travelers on University business register their itineraries with International SOS, a complimentary travel assistance service that provides emergency assistance in foreign countries. The Web site is at <http://huhs.harvard.edu/Resources/TravelersHealthInformation.aspx>.



Harvard University
Gazette

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Vice President for Government, Community and Public Affairs:

Christine Heenan

Senior Director of Communications: John Longbrake

Director of News and Media Relations: Kevin Galvin

Director of University Communications: Joe Wrinn

Associate Director: Rebecca Rollins

Assistant Director for Photography: Justin Ide

Assistant Director for Publications: John Lenger

Editor: Terry L. Murphy

terry_murphy@harvard.edu

Associate Editor: Alec Solomita

alec_solomita@harvard.edu

Calendar Editor: Georgia Bellas

georgia_bellas@harvard.edu

Editorial Assistant: Gervis A. Menzies Jr.

gervis_menzies@harvard.edu

Editorial Assistant: Sarah Sweeney

sarah_sweeney@harvard.edu

Writers:

Corydon Ireland (corydon_ireland@harvard.edu)

Alvin Powell (alvin_powell@harvard.edu)

Colleen Walsh (colleen_walsh@harvard.edu)

Special Areas: B.D. Colen, senior communications

officer for University Science (bd_colen@harvard.edu)

Lauren Marshall, public information officer for

Community Programs and University Planning

(lauren_marshall@harvard.edu)

Chief Photographer: Justin Ide (justin_ide@harvard.edu)

Photographers: Jon Chase (jon_chase@harvard.edu)

Rose Lincoln (rose_lincoln@harvard.edu)

Stephanie Mitchell (stephanie_mitchell@harvard.edu)

Kris Snibbe (kris_snibbe@harvard.edu)

Katherine C. Cohen (*intern*)

Imaging Specialist: Gail Oskin

photo_services@harvard.edu/(617) 495-1691

Web: <http://www.harvard.edu>

Web Production: Peggy Bustamante, Max Daniels

Contact: webmaster@harvard.edu

POLICE REPORTS

Following are some of the incidents reported to the Harvard University Police Department (HUPD) for the week ending May 11. The official log is located at 1033 Massachusetts Ave., sixth floor, and is available online at www.hupd.harvard.edu/.

May 7: At the University Press, officers were dispatched to a report that an individual urinated in the bushes. The individual was interviewed, checked for warrants with negative results, and sent on their way. At Countway Library, a bicycle and cable lock were stolen. An officer was dispatched to the C1 Building at Harvard Medical School to take a report of a door with pry marks on it.

May 8: At University Hall, an officer was dispatched to take a report of an individual throwing a wooden stake through a light. The officer reported the glass housing to the light was smashed. A web card was stolen from the Fogg Art Museum storage area.

May 10: A wallet containing an ID card, license, two credit cards, and \$80 was stolen at Gund Hall. A window was broken at Dunster House. At 1320 Massachusetts Ave., an officer observed an individual in need of medical assistance. The Cambridge Police Department arrived and the individual was transported to a medical facility.

May 11: Officers were dispatched to the Faculty of Arts and Sciences offices to a report of an individual sleeping outside of the building. The individual was checked for warrants with negative results and sent on their way.

MEMORIAL SERVICE

Marshall service on Friday

A memorial service for Martin V. Marshall, professor *emeritus* at Harvard Business School (HBS), will be held on May 15 at 2 p.m. in the Class of 1959 Chapel on the HBS campus. Marshall passed away on Feb. 16 at the age of 86. An expert on marketing and advertising, Marshall also played a prominent role in the creation of the School's Owner/President Management Program for entrepreneurs.

A reception following the service will take place in the Williams Room in the Spangler Center, and parking will be available in the HBS lot. For more information, e-mail Jim Aisner in the HBS Communications Office at jaisner@hbs.edu, or call (617) 495-6157.

Department Administrator: Robyn Lepera

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Office of News and Public Affairs: (617) 495-1585

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Calendar Fax: (617) 496-9351



Waldheim appointed professor, chair of landscape architecture

Dean of the Harvard Graduate School of Design (GSD) and Alexander and Victoria Wiley Professor of Design Mohsen Mostafavi announced the appointment of Charles Waldheim as professor of landscape architecture and chair of the Department of **appointment** Landscape Architecture at GSD, effective July of this year.

"I very much look forward to working with Charles and the landscape faculty in defining the future direction of the department, and in confronting the current challenges and opportunities facing those who teach and practice in the field of landscape

architecture," said Mostafavi during his announcement.

Waldheim's research focuses on landscape architecture in relation to contemporary urbanism. He coined the term "landscape urbanism" to describe emerging landscape design practices in the context of North American urbanism. He has written extensively on the topic and edited "The Landscape Urbanism Reader" (Princeton Architectural Press, 2006). Citing the city of Detroit as the most legible example of urban industrial economy in North America, Waldheim is editor of "CASE: Lafayette Park Detroit" (Pres- tel/Harvard Design School, 2004) and co-ed-

itor, with Jason Young and Georgia Daskalakis, of "Stalking Detroit" (ACTAR, 2001). On the history and future of Chicago urbanism, he is author of "Constructed Ground" (University of Illinois Press, 2001) and co-editor of "Chicago Architecture and Urbanism: Histories, Revisions, Alternatives" (University of Chicago Press, 2005). He is currently writing the first book-length history of Chicago's O'Hare International Airport, titled "Chicago O'Hare: A Natural and Cultural History" (University of Chicago Press). His writing has also appeared in Landscape Journal, Topos, Log, Praxis, 306090, Canadian Architect, Dimensions, and Land-

scape Architecture Magazine.

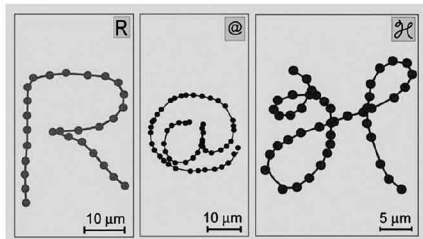
Currently, Waldheim is associate professor and director of the landscape architecture program at the University of Toronto. He has lectured on landscape and contemporary urbanism across North America, Europe, and Australasia. He has taught as a visiting faculty member at Harvard University, the University of Michigan, the University of Pennsylvania, and Rice University. He is an honorary member of the Ontario Association of Landscape Architects, and was the 2006 recipient of the Rome Prize Fellowship in Landscape Architecture at the American Academy in Rome.

Spiral swimmers may be new workhorses

By Alvin Powell
Harvard News Office

Harvard researchers have created a new type of microscopic swimmer: a magnetized spiral that corkscrews through liquids and is able to deliver chemicals and push loads larger than itself.

Though other researchers have created **nanotechnology** similar devices in the past, Peer Fischer, a junior fellow at the Rowland Institute at Harvard, said the new nano-robot is the only swimmer that can be precisely controlled in solution.



At just two microns long and 200 to 300 nanometers wide, the corkscrew swimmer is about the size of a bacterial cell. The work was published online May 4 in the journal Nano Letters. Fischer and Rowland Institute postdoctoral research associate Ambarish Ghosh were able to control the tiny device well enough to use it to write "R @ H" for "Rowland at Harvard" within a space that's less than the width of a human hair. Further, they were able to use it to push a 5 micron bead — which had a volume more than 1,000 times that of the swimmer — and were also able to control two of the swimmers simultaneously.

"It really has good control. It's exactly doing what we want it to do," Fischer said.

The Rowland Institute was created by legendary Polaroid founder Edwin Land in 1980 as the Rowland Institute for Science, a nonprofit, basic research laboratory. It maintained its scientific mission in 2002, when it merged with Harvard and became the Rowland Institute at Harvard.

Fischer said the strength of his and Ghosh's work is not just the swimmer's performance but also its manufacturing method, which allows many swimmers to be created simultaneously.

The devices are made by exposing a silicon wafer to silicon dioxide vapor. The wafer is slowly rotated as the vapor condenses, growing the devices in a corkscrew shape. They are then shaken loose, sprayed with cobalt, and magnetized. Because they are lying on their sides when the cobalt is applied, the process provides a magnetic "handle" to rotate the corkscrews with.

"You can make hundreds of millions in a square centimeter," Fischer said. "Even if you use only a few percent, that's still a lot ...



Katherine C. Cohen/Harvard News Office

Researchers Peer Fischer (above left) and Ambarish Ghosh of the Rowland Institute at Harvard have devised a new microscopic swimmer, a corkscrew that rotates in a magnetic field. They were able to control the tiny device well enough to use it to write 'R @ H' for 'Rowland at Harvard.'

You can make a lot of them very quickly."

Fischer and Ghosh took one last step, which didn't improve the swimmers' functionality, but allowed them to be tracked: they coated them with a fluorescent chemical.

Once complete, the researchers surrounded the swimmers with three magnetic coils, allowing them to precisely adjust the magnetic field, and control the tiny devices in three dimensions.

The microscopic world of the nano-swimmer is different from the one we experience when going for a swim, Fischer said. Because it operates at such a tiny scale, water that we move through relatively easily — thin and runny — appears thicker to the nano-

swimmers, more like honey. The swimmers meet a considerable amount of resistance to their forward motion so that they really need to drill their way forward, he said.

The devices move at about the speed of bacteria, 40 micrometers — one micrometer is a millionth of a meter — per second.

Though applications in drug delivery, microsurgery, and other aspects of medicine seem apparent, Fischer said it's too early to speak about those realistically. However, Fischer said the artificial swimmers can be used to test some of these ideas and could have almost immediate applications in research, being used to shuttle chemicals in and out of cells or testing the strength and properties of membranes, for example.

Twenty-four elected to Phi Beta Kappa

Phi Beta Kappa recently elected 24 students from the Class of 2010 to the Harvard College chapter of Alpha Iota of Massachusetts. The following juniors, including their concentrations and Houses, were inducted:

Zachary Ryan Abel, Math, Computer Science, Kirkland House

Zachary Carl Arnold, Social Studies, Eliot House

Jeremy Noah Aron-Dine, Linguistics, Leverett House

Daniel Marcus Bear, Molecular and Cellular Biology, Adams House

Malcolm Guy Campbell, Chemistry, Physics, Quincy House

Brian Shifang Chen, Social Studies, Eliot House

Timothy Hwa-wei Hsieh, Physics, Math, Currier House

Wenna Jia, Economics, Adams House

Eric Tobias Lander, Linguistics, Quincy House

Andrew Quang-Viet Le, Economics, Quincy House

Christopher Taekyu Lim, Music, Math, Lowell House

Stephanie Hoi-ye Lo, Economics, Cabot House

Mary Anne Marks, Classics, English, Leverett House

Vikram Rajan Modi, Applied Math, Winthrop House

Colin James Motley, Economics, Winthrop House

Jeffrey Delaney Nanney, Applied Math, Currier House

Hamida Boatemaah Owusu, African and African American Studies, Winthrop House

Palmer Rampell, English, Leverett House

Anthony Caswell Speare, Sociology, Dunster House

Dennis Liu Sun, Music, Math, Cabot House

Yi Sun, Math, Cabot House

Julia Ye, Molecular and Cellular Biology, Kirkland House

Chelsea Yuan Zhang, Applied Math, Kirkland House

John Cong Zhou, Applied Math, Winthrop House

FAS launches new site for budget updates

By Steve Bradt
FAS Communications

The Faculty of Arts and Sciences (FAS) has created a new Web site to provide faculty, staff, and students with up-to-date information on cost-saving measures.

The site, <http://planning.fas.harvard.edu>, will provide detailed information about specific changes in services and programs, as well as broad administrative changes. The site will be enhanced with additional features and information over the coming months, and will be updated as new measures are implemented.

The new site launched on Monday (May 11) with details on services that will change before the start of the fall term. These changes are part of \$77 million in savings identified by departments, centers, and administrative units in a process that began last fall to identify a range of possible cost savings needed to bring short-term and long-term

budgets in line with FAS's new economic reality.

"These measures represent the completion of the first phase of a two-phase process," says FAS Dean Michael D. Smith, the John H. Finley Jr. Professor of Engineering and Applied Sciences. "In this first phase, administrators, faculty, and others expended enormous time, effort, and energy in finding innovative ways to resize their activities, to reduce costs through better use of resources, and to increase efficiencies. I am extremely grateful to everyone who worked so hard in this difficult but critical resizing effort."

At an FAS-wide "town hall meeting" on April 14, Smith announced the creation of six working groups to identify a further \$143 million in savings to be implemented by academic year 2010-11. These working groups — one in each of FAS's three academic divisions (sciences, social sciences, and arts and humanities), two in Harvard College, and one in

the School of Engineering and Applied Sciences — will include faculty, staff, and students, and each will present proposals for further savings in the spring semester of 2010.

Smith has also encouraged members of the FAS community to submit their thoughts and suggestions on other cost-reduction strategies to priorities@fas.harvard.edu.

"New ideas and visions of the future have always been a strength of the Faculty of Arts and Sciences," Smith says. "With help from across the FAS, I remain convinced that we can use this financial crisis to build a stronger, healthier, and more vibrant institution."

Separately, the Voluntary Early Retirement Incentive Program (VERIP), which was offered to eligible Harvard staff University-wide over a three-month period, resulted in a 33 percent acceptance rate, with 534 out of 1,628 staff members accepting the program's benefits.

Awards given to 41 by Harvard Foundation

In a ceremony honoring students and faculty for exceptional contributions to improving intercultural and race relations, the Harvard Foundation presented 40 students and one faculty member with awards at the annual Harvard Foundation Student/Faculty Awards Dinner on May 4 in Quincy House.

David G. Mitten, James Loeb Professor of Classical Art and Archaeology, was honored with the 2009 Faculty of the Year Award for his long-standing support of the Harvard Foundation's mission and for his contributions to Harvard's intercultural life as a student group faculty adviser. "The students and faculty of the Harvard Foundation are delighted to present the Distinguished Faculty Award to Professor David Mitten for his more than 40 years of service to students at Harvard College," said S. Allen Counter, director of the Harvard Foundation. "He has been a source of great support and inspiration to the foundation and our mission to improve intercultural and interreligious understanding at the University. We hope that even in his retirement, he will continue to offer his much-appreciated advice and guidance to the Harvard Foundation."

Faculty, administrators, House masters, and students nominated the student award recipients, who were then chosen by the faculty and student advisory committee of the Harvard Foundation. Students who have shown a commitment to improving intercultural life at Harvard during the course of their undergraduate years received the Distinguished Senior Award. The Distinguished Senior Awards for Excellence in Leadership went to the following members of the Class of 2009: Sadia Ahsanuddin, Bianca Caban, Matthew Clair, Petros Egziabher, Layusa Isa-Odidi, Vikas Mouli, and Lumumba Seegars. Isa-Odidi was also elected by students to receive the Harvard Foundation Peer Recognition Award.

The 2009 Harvard Foundation Insignia Awards for outstanding contributions to intercultural and race relations were given to students who have displayed a sustained effort to improving racial harmony at the College. Recipients included Ola Aljawhary '09, Nworah Ayogu '10, Matthew Bresnahan '09, Raul Carrillo '10, Kameron Collins '09, Jaqueline Hairston '10, Amanda Mangaser '10, Robert Raviv Murciano-Goroff '09, Michelle Kellaway '10, Jarell Lee '10, Kelsey Leonard '10, Kevin Liu '11, Christopher Magliozzi '11, Emily Owens '09, Ravi Parikh '09, Richie Serna '10, Kemeyawi Wahpepah '09, Susan Yao '09, and Joyce Zhang '09.

The foundation also recognized underclassmen who have made notable contributions to the intercultural life at Harvard College with Certificates of Recognition. These recipients were Jessica Ch'ng '12, Elizabeth Eze '11, Miguel Garcia '12, Bronwen O'Herin '12, Olamide Oladipo '12, Fabian Poliak '11, Alexandra Rahman '12, Julia Tartaglia '11, Marvin Urzua '11, Nwamaka Uzoh '11, and Sara Zaidi '11.

Graduate students who served as designated House Race Relations Advisers were also recognized, including Sherry Deckman (Adams House), Jennifer Kan Martinez '05 (Dunster House), Brendan Randall (Ivy Yard), and Cameron Van Patterson (Lowell House).



File Kris Snibbe/Harvard News Office

The Weissman International Internship Program, established by Paul '52 and Harriet Weissman in 1994, provides undergraduates with the opportunity to intern abroad in a field related to their career and academic goals.

Weissman internships will support 50 students abroad

This summer, the Weissman International Internship Program will send a record 50 students abroad as interns, working in 25 countries across the globe. The interns will engage in a wide range of private and public sector opportunities, including ventures in art and architecture, business, environmental sustainability, foreign policy, human rights, international development, journalism, public health, science, and technology.

The Weissman International Internship Program, established by Paul '52 and Harriet Weissman in 1994, provides returning undergraduate students with the opportunity to intern abroad in a field related to their career and academic goals. The program enables students to develop a richer understanding of the global community in which they live and work, and provides an opportunity for them to share their experiences with the Harvard community when they return. Since the program's inception, more than 350 students have interned in 76 different countries on six continents.

The Weissman Program, administered by the Office of Career Services, holds informational meetings for interested students in the fall and accepts applications through early February. For more information about the program, visit: www.ocs.fas.harvard.edu/students/global/weissman/weissman.htm.

The Weissman internship recipients and their respective destinations for 2009 follow:

Sophie Alexander '10 (Germany)
Francisco Alvarez '11 (Spain)
Jeremy Aron-Dine '10 (Germany)
Aditya Balasubramanian '12 (Argentina)
Rajarshi Banerjee '11 (Germany)
Oscar Basantes '11 (Ecuador)
Claire Bulger '11 (Australia)
Kristen Calandrelli '10 (Denmark)
Alex Chang '10 (Taiwan)
Lee Ann Custer '10 (France)
Daniel Ding '11 (Switzerland)
Ivana Djak '11 (Germany)
Eric Dong '11 (China)
Kevin Donoghue '11 (Spain)
William Firestone '10 (Kenya)
Matthew Ghazarian '10 (United Arab Emirates)
Katherine Gunn '11 (Ireland)

Lucie Guo '10 (Argentina)
Mark Hirschboeck '11 (Germany)
Eniko Horvath '10 (Spain)
Katherine Huang '11 (China)
Lawrence Kuklinski '10 (France)
Phoebe Kuo '11 (France)
Gordon Liao '11 (Switzerland)
Alison Liewen '11 (France)
Debbie Lin '11 (England)
Daniel Liss '11 (Australia)
Heidi Liu '11 (Switzerland)
Siyuan Liu '11 (Australia)
Kathleen Ma '11 (Sweden)
Anne McCabe '11 (France)
James McFadden '10 (Equatorial Guinea)
Charles Melvoine '10 (Uganda)
Alex Palmer '12 (Venezuela)
Nadim Rabaia '10 (Uganda)
Zachary Ranta '11 (France)
David Schneider '10 (Russia)
Emir Skokic '12 (Bosnia-Herzegovina)
Caroline Smart '10 (Greece)
Anne Taylor '11 (Spain)
Katherine Thompson '10 (Nigeria)
Tannis Thorlakson '11 (South Africa)
Kurt Tsuo '11 (China)
Brittany Turner '10 (England)
Adrian Veres '12 (France)
Rebecca Vitale '10 (Senegal)
Hanbing Wang '11 (England)
Rui Wang '11 (England)
Lauren White '11 (Spain)
Odella Younge '11 (Ghana)

Business School's Milton P. Brown, retail and marketing expert, 90

Harvard Business School (HBS) Professor *Emeritus* Milton P. Brown, an expert in retailing and marketing who for almost half a century influenced thousands of M.B.A. students and executives through his skills as an extraordinarily talented teacher, died on April 25 in Exeter, N.H. He was 90 years old.

"Milt Brown had an almost magical ability to engage students and get them involved in meaningful discussions about important issues in a case study," said Walter J. Salmon, the Stanley Roth Sr. Profes-

sor of Retailing *Emeritus* at HBS.

Like all great teachers, Brown had a keen interest in his students. He "knew everyone's name before the first day of class," recalled Stephen A. Greyser, the School's Richard P. Chapman Professor of Business Administration *Emeritus* and once a student in Brown's first-year marketing class.

Although Brown was an early proponent of the use of computers and innovative management techniques in retailing, he always emphasized the importance of customer service and simply observing

where change was happening in the marketplace and then trying to adapt to it as quickly as possible. "Unlike managers in many other businesses," he said in a 1988 interview, "retailers can't test-market their goods or formulate long-range plans that predict what will be in fashion in five years. Decision making is helped by the availability of more sophisticated data, but retailing is still an ad hoc, trial-and-error operation. If the red ones don't sell, you mark them down and try some blue ones."

(See **Brown**, next page)



Brown

Stephanie Mitchell/Harvard News Office



Xiaofei Tian studies travelogues of the early medieval period to evaluate how voyagers articulated concepts of the 'foreign.' Their writing, she argues, was part of a broader cultural transformation that encouraged people to embrace foreign influences.

On the road in the fifth century: Visions of heaven, hell

By **Emily T. Simon**
FAS Communications

During the fifth century, travelers began to depart China more frequently than ever before, venturing outward from medieval cities to explore lands in Central and South Asia. A range of individuals eagerly took to the road, writing extensively about their journeys and returning home with elaborate accounts.

Xiaofei Tian, professor of Chinese literature, studies travelogues of this era, known as the early medieval period, to evaluate how voyagers articulated concepts of the "foreign." Their writing, she argues, was part of a broader cultural transformation that encouraged people to embrace foreign influences.

history "The intellectual and cultural landscape of China changed dramatically in the early medieval era," says Tian. "The influx of influences from India, the rise of Buddhism, and the increasing penchant for travel abroad combined to reshape and open up Chinese life."

Tian has studied prose travel accounts, poetry, dynastic histories, and anecdotal collections in her efforts to engage with the mindset of fifth century travelers. She has found that merchants, Buddhist clergy, and diplomats traveled the most extensively. Merchants departed in search of commercial profit; the clergy went to preach and convert, to seek enlightenment, or to visit religious sites; and the diplomats traveled to strengthen relationships with neighboring rulers.

Women also traveled extensively, Tian notes, and not necessarily as dependents of their fathers or husbands. Buddhist nuns in particular enjoyed great mobility.

As these travelers grappled with foreign landscapes and unfamiliar sights, says Tian, they mediated their experience in writing through specific rhetorical strate-

gies, images, and tropes. According to Tian, their efforts were the first attempt in Chinese culture to develop schemata for writing about seeing the world.

"I was curious to explore how you can articulate the experience of seeing something you have never seen before, in a country with an entirely different language," Tian says. "What strategies do you use if you want to talk about something foreign?"

A popular technique, Tian says, was to envision the foreign world as either "heaven" or "hell." This was particularly evident in poetry.

"The travelers would describe the land in terms of the Buddhist conception of heaven — a pure, blissful place," says Tian. "Or, they would describe it as an elaborate hell, with levels and sections not unlike Dante's 'Inferno.' But there was never a middle ground."

Tian argues that the heaven/hell schema enabled later travelers to "domesticate the foreign." Similarly, the practice of writing about a voyage in several genres helped travelers "represent, familiarize, and tame" the foreign world.

"Instead of just writing a prose narrative or a personal diary or a poem, many later travelers chose to do all three," she says. "When you choose multiple genres to represent the same topic, different needs are satisfied and the subject material becomes even more knowable."

In addition to her work on the medieval era, Tian also studies late imperial China. When it comes to travel literature, she says, one can find strong links between the early medieval period and the 19th century. In her latest book project, titled "Visionary Journeys," Tian seeks to bring together both eras to explore how travel sparked cultural transformation.

"In the 19th century, the Chinese elite went beyond Asia for the first time to explore Europe and America," she says. "These places were exotic in every sense of the

word, and the travelers' writings parallel the sense of discovery that was evident in literature from the fifth and sixth centuries."

The heaven/hell trope, for example, was repeatedly used by travelers as they explored the cities of Europe.

"London, with its industrial fog, was often described as a demonic place," says Tian. "Paris, on the other hand, was more often cast in paradisaical terms."

Though 19th century travelers had a broader vocabulary than their 5th and 6th century counterparts, they still struggled to describe what they encountered on the road.

"Often, there was no appropriate vocabulary to talk about something really novel, no existing words to describe foreign things," says Tian.

In that case, travelers modified words from their own language — often with unusual effect.

When they came across nudes in paintings from the European artistic tradition, for example, some travelers referred to them as *chun-gong* — the Chinese word for erotic paintings. Initially surprised to find art of that nature hanging on display in public, the travelers came to realize that the paintings were actually different from *chun-gong* and acknowledged as such in their writing.

"The effort to come up with a way to express a foreign concept demonstrates the clash of two different cultural systems," Tian says.

According to Tian, historians should not underestimate the scope of the changes that took place in the medieval period and the 19th century, as travelers crossed significant physical, linguistic, and cultural barriers.

"No other period in Chinese history before the modern era engaged in so much translation and absorbed so much of foreign culture or cultures as in these two periods and caused such a complete cultural transformation," she says.

House pride



Kris Snibbe/Harvard News Office

House shields adorn the walls of the Malkin Athletic Center.

Brown

(Continued from previous page)

According to Greyser, Brown “focused students’ attention on the consumer in terms of the buying process and its implications for selling and marketing programs. He had an instinctive capability to push people to try to understand how customers thought.”

During his career, Brown served as a director of some 17 companies. He said that his experience in the boardroom made him a better teacher in the classroom. “I was constantly facing new issues,” he explained. “In addition, the executives I met often made themselves available to visit my classes and talk with my students.”

For more than two decades, he was also chairman and CEO of the Harvard Coop, founded in 1882 to provide books and merchandise to the Harvard and Massachusetts Institute of Technology communities. Advising the Coop’s president, who watched over the day-to-day operations of the stores, Brown saw the Coop grow to encompass a number of branches and become one of the largest and most successful retail cooperatives of its kind in the country.

Brown taught his first marketing class at HBS as a young instructor just after the end of World War II at the unexpected request of his mentor, the legendary HBS Professor Malcolm P. McNair, who organized the School’s first marketing and retailing courses and helped pioneer the development of case-method teaching. “I was paralyzed with fear, but I did it, although I never strayed more than six inches from the notes I had laid out all over the desk at the front of the room,” Brown once recalled.

Brown began to develop a teaching style that was rigorous, dramatic, and lively. The case method satisfied his penchant for pragmatic experience rather than the development of theory. “I’ve always felt that when it comes to business, theory is relatively shallow,” he said. “By analyzing hundreds of cases, our students participate in a wide array of business experiences and decisions. My role was to help them see issues they might have missed without me, but not to give them answers.”

Brown’s teaching also left a lasting mark on many senior executives in the School’s Advanced Management Program (AMP). One executive he inspired was a newspaper

editor who wrote about Brown’s classroom technique in a column: “When Professor Brown wanted to make a point about the pervasiveness of Gold Toe socks in a case discussion about the men’s hosiery business, he asked how many students wore Gold Toes [so called because of their gold thread marks across the toes]. In seconds, 70 men kicked off their shoes. Brown had eased back onto a desk, slipped off his loafers, and was wiggling his Gold Toes. ‘See that? See that?’ he asked enthusiastically.”

Brown was a prolific case writer. During his HBS career, he published more than 150 cases, many of which became “excellent teaching vehicles for many years,” Salmon noted. He was well known among his research assistants as a stickler for precise English usage.

From the 1940s through the early 1960s, Brown was involved in the research that went into a series of published annual statistical studies on the cost of doing business in retailing. Initiated by McNair in 1920 with the publication of “Operating Results of Department and Specialty Stores,” these 50- to 60-page booklets, commonly known as the “Harvard Reports,” were influential in the evolution of the retail industry into a service-oriented, cost-effective business.

Born in Yonkers, N.Y., on Jan. 19, 1919, Milton Peers Brown grew up in Rochester, where he excelled in his studies from elementary school until his graduation from high school in 1936. He was also an accomplished musician, playing the flute and piccolo in school bands and orchestras.

Although his mother was a high school teacher and his grandfather a professor, Brown never intended to pursue a career in the classroom. Entering Harvard College in the fall of 1936, he majored in economics. Beyond the classroom, he played intramural football until a knee injury took him off the gridiron permanently. He fared much better, though, as a member of the Harvard marching band. He first became interested in retailing in 1937, when he worked in a department store in Rochester the summer between his freshman and sophomore years at Harvard College.

A member of John F. Kennedy’s class at Harvard College, Brown graduated *cum laude* in 1940 and entered HBS the next fall. To help pay his way, he sold his two instru-

ments and accepted an offer from the Harvard Band to become its drillmaster. In that position, he earned \$100 for planning the band’s half-time show formations at football games.

After Pearl Harbor, Brown registered for the draft with all his classmates in the reading room of Baker Library, but because of his bad knee and nearsightedness, he didn’t pass the physical. An offer to become McNair’s research assistant kept him at the School after he earned his M.B.A. in 1942.

“I had been thinking about going into retailing, but hadn’t been able to find a job,” he told an interviewer. “I thought I’d spend just a year or two with McNair and then leave, but I became more and more involved in my work, started teaching, liked it, and ended up staying on the faculty for 45 years.” Along the way, he met and married Joan Hawley, the daughter of an HBS faculty colleague, Henry C. Hawley. Promoted to full professor in 1958, Brown succeeded McNair as the Lincoln Filene Professor of Retailing in 1963. He retired from the active faculty in 1987 and received the Harvard Business School’s Distinguished Service Award in 1989.

In 1973, Brown joined the Advisory Committee of the Navy Resale and Services Support Office (NAVRESSO). Created after World War II, the committee was made up of seven distinguished civilians who advised the top managers of the U.S. Navy’s worldwide network of commissaries and exchanges.

Longtime residents of Weston, Mass., Brown and his wife retired to Exeter, N.H. They spent summers in North Lovell, Maine, in a summer home they had both designed. In retirement, Brown made good on his promise to be “unemployed but not inactive.” Besides his duties with the Coop and NAVRESSO, he continued to serve on several boards, including that of Dunkin’ Donuts.

In addition to his wife, Brown is survived by two daughters, Janet Slayton and Pamela Nahass, both of Millis, Mass.; five grandchildren; and two great-grandchildren.

Burial will be private. A memorial service is planned at 2 p.m. on July 25 in Lovell United Church of Christ in Center Lovell, Maine. In lieu of flowers, donations may be made in Brown’s memory to Seacoast Hospice, 10 Hampton Road, Exeter, NH 03833.

SPORTS BRIEF

Men’s lightweight and heavyweight crew finish first, second at EARC Sprints

The Harvard men’s lightweight and heavyweight crews turned out impressive performances this past Sunday (May 10) at the EARC Sprints on Lake Quinsigamond in Worcester, Mass. The Harvard lightweights claimed gold in the third varsity eight, silver in the varsity eight and freshman eight, and bronze in the second varsity eight and freshman eight to claim the Jope Cup championship for the 20th time. The heavyweights took the silver medal at the competition, finishing second out of 15 teams.

— Gervis A. Menzies Jr.

SPORTS WRAP-UP

Men’s Heavyweight Crew

EARC Sprints 2/15

Men’s Lightweight Crew

EARC Sprints 1/10

Track & Field

Outdoor Heptagonal Championships
M (6/8), W (4/8)

Women’s Golf

NCAA Regional Championship 19/21

Coed Sailing

New England Team Race Championship 2/12

UPCOMING SCHEDULE

The week ahead (Home games in bold)

Friday, May 15

T&F	ECAC/IC4A Championship	all day
W Tennis	NCAA Championship - Singles	TBA

Saturday, May 16

WHCrew	EAWRC Sprints	TBA
WLCrew	EAWRC Sprints	TBA
T&F	ECAC/IC4A Championship	all day
W Tennis	NCAA Championship - Singles	TBA

Sunday, May 17

WHCrew	EAWRC Sprints	TBA
WLCrew	EAWRC Sprints	TBA
W Tennis	NCAA Championship - Singles	TBA
T&F	ECAC/IC4A Championship	all day

Monday, May 18

W Tennis	NCAA Championship - Singles	TBA
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Whitesides receives inaugural Dreyfus Prize in the Chemical Sciences

The Camille and Henry Dreyfus Foundation announced that George M. Whitesides, the Woodford L. and Ann A. Flowers University Professor of Chemistry at Harvard University, has won the

recognition inaugural Dreyfus Prize in the Chemical Sciences.

The prize, to be given biennially by the Camille and Henry Dreyfus Foundation, recognizes exceptional and original research in a selected area of chemistry that has advanced the field in major ways. Conferred this year in materials chemistry, the prize consists of a monetary award of \$250,000 — one of the largest awards dedi-

cated to the chemical sciences in the United States — a citation, and a medal. The award ceremony will take place at Harvard on Sept. 30, and will include a lecture by Whitesides.

Whitesides has had a major and sustained impact in the chemical sciences and materials chemistry. He is one of the most innovative and prolific chemists of our time and the most highly cited living chemist in the world. He has developed powerful methods for the creation of new materials that have significantly advanced the field of chemistry and its societal benefits. His research extends across multiple disciplines,

centered on chemistry, but touching biochemistry, drug design, and materials science. His work extends to the engineering of functional systems and the applications of these systems in areas ranging from biology to microelectronics. He has opened broad new technological avenues and has impacted human health in significant ways. Whitesides' research in materials chemistry has become an essential part of materials synthesis programs around the world.

"I'm particularly pleased and honored to receive this award from the Dreyfus Foundation. Its work in raising public awareness of chemistry is helping to educate young

people about the transformative power of this science," said Whitesides. "Chemistry has the opportunity of a century to do something profound for society. The whole area of materials chemistry, including challenges in energy, water, conservation, sustainability — commodity infrastructure — is up to us, as chemists, to work through."

Among Whitesides' many innovations are the synthesis and molecular organization of new classes of materials, pioneering self-assembled monolayers and microfluidic systems to enable the development of

(See *Whitesides*, next page)

Religion key to foreign policy, says HKS speaker

'Religious ideas inform national identity'

By Ruth Walker

Special to the Harvard News Office

As President Obama and his new administration seek to redirect U.S. foreign policy back toward more emphasis on diplomacy and less on the use of force, they should not overlook Orthodox Christianity as a resource.

That was the message, implicit and explicit, that Elizabeth Prodromou, assistant professor of international relations at Boston University, carried to the Belfer Center Library Monday (May 11). "It's impossible to ignore the Orthodox churches," with their 350 million adherents, she said. They are relevant in three parts of the world where the Obama administration seeks to hit the "reset" button — Russia, the Middle East, and Europe.

religion The relationships Orthodox churches have with their national governments are unquestionably different from those of churches in the West. They are at least "tight," and arguably complicitous. But these churches are not monolithic, she said. "Underneath the umbrellas of these official churches there are myriad cleavages and subgroups." Some of these hold views more helpful to U.S. interests than others, and smart policy, she suggested, would be to engage with those more helpful elements. A first step would be "acknowledging that the official church is not a unified actor."

Prodromou began her talk, "Religion and U.S. Foreign Policy: Understanding and Engagement with Orthodox Christianity in Russia, the Middle East, and Europe," by noting that it is a commonplace to observe that social scientists and policymakers have "rediscovered" religion since the end of the Cold War.

"But there's a curious ahistorical side of this," she said. Policymakers tend to see religion broadly as a threat to U.S. interests. But they also tend to forget the role that religion, specifically Christianity, has had historically in nation building in the United States.

"Religious ideas informed the particularities of national identity," Prodromou said. This is seen in the story of the Pilgrims' landing at Plymouth and in the conception of the rights articulated in the Declaration of Independence as divinely granted. More recently, it was also seen in the explicit framing of the Cold War as a conflict with "Godless communism."

And indeed, Orthodox Christianity figured into high-level American thinking during the Cold War, according to Prodromou. Recently declassified archives show, she said, that President Dwight Eisenhower and his secretary of state, John Foster Dulles, understood the importance of Orthodox Christianity in Russia, Ukraine, and also the "post-Ottoman space" of Southeastern Europe and the Middle East.

Those parts of the world are relevant again — or still — as the Obama administration seeks to create "change you can believe in." In foreign policy terms, Prodromou said, this means "the reevaluation of diplomacy over force, multilateralism and partnership over unilateralism and exceptionalism." It also means "a reconceptualization of global cultural heterogeneity in terms of religious pluralism and constructive engagement, rather than religious cleavage and civilizational conflict."

All this matters for Orthodox Christianity, Prodromou continued, because Obama has mapped this vision onto certain specific geographical areas where Orthodoxy is important. Failure to understand this means that the United States has not yet "leveraged the assets" of this historic faith.

She warned against two tendencies in American views — two "ideologies of otherness" that lead to the omission or misunderstanding of Orthodox Christianity from foreign policy thinking. One is a "neo-bipolar," or neo-Cold-War, view. This is a tendency to see the Orthodox Church as too closely aligned with a Russia that seems to be hardening back into its old authoritarian ways. The other tendency is a sort of "neo-Orientalist" view of Orthodoxy. This would cast

it as a "mongrelized religion," somehow muddled by proximity to Islam.

In addition to her role at Boston University, Prodromou is also a member of the United States Commission on International Religious Freedom. The commission was established by Congress after it passed the International Religious Freedom Act (IRFA) of 1998, which makes support for freedom of religion around the world an explicit goal of U.S. foreign policy. The commission monitors the state of religious liberty around the world and attempts to identify governments that are falling short.

Taking care to speak as an academic rather than a commissioner, Prodromou expressed some reservations about IRFA. One of its "unanticipated negative consequences," she said, is that "religion has been instrumentalized." People around the world understand that conservative Jewish and Christian activists around the world had a big role in getting the law passed in the first place. The act has been "read negatively," as something used to support or justify proselytizing and to further U.S. foreign policy interests.

Religious liberty is an element of all the "human rights architectures" to which the United States is committed. But IRFA "may have set the bar too high," she said, by in effect putting U.S. support for international religious liberty on the same level of foreign policy objectives as strategic national interest.

The law mandates sanctions against countries found wanting in their support of religious liberty, some of them allies or friends of the United States — Saudi Arabia, for instance. By waiving sanctions, as the law does allow, "The United States opens itself up to inconsistency at best and hypocrisy at worst," Prodromou said.

Prodromou's talk was hosted the Kokkalis Program on Southeastern and East-Central Europe. It was also co-sponsored by the Weatherhead Center for International Affairs Religion and Politics Seminar Series.



Kris Snibbe/Harvard News Office

International relations expert Elizabeth Prodromou noted at the Belfer Center that policy-makers tend to forget the role that religion, specifically Christianity, has had historically in nation building in the United States. 'Religious ideas informed the particularities of national identity,' Prodromou said.

Climate Collaborative's report suggests culture change

Last year, Harvard University pledged to reduce its greenhouse gas emissions 30 percent by 2016. That ambitious goal raised a single big question: How?

In a first-time report released last month (April 27), the Harvard Climate Collaborative (HCC) offered two broad answers: Improve communication and inspire culture change.

HCC is a network of students and administrators inspired to action by the pledge. Representatives come from all 12 Schools, in addition to Harvard College.

According to the report, better communication means Harvard, faculty, and

staff know more so they can do more — implement novel ways to reduce personal energy consumption, for instance, or cut back on waste. Knowing more also means getting updates on the progress of the emissions pledge.

Culture change, the report suggests, could mean new interdisciplinary research on sustainability or new ways to draw on student expertise, energy, and ambition. Two ideas floated: inter-School weekly charettes and sustainability innovation competitions.

Recommendations are just part of the HCC report. It also includes summaries of

2008-09 sustainability actions by its member groups. And it includes an overview of HCC monthly meetings, which began last October.

HCC, in its first year, received support from the Harvard University Center for the Environment. Its 2008-2009 co-coordinators are Aron Chang '09 (Harvard Graduate School of Design) and Spring Greeney '09.

For a copy of the full report, go to <http://harvardclimatecollaborative.wordpress.com/2009/04/27/the-2009-hcc-annual-report/>.

Whitesides

(Continued from previous page)

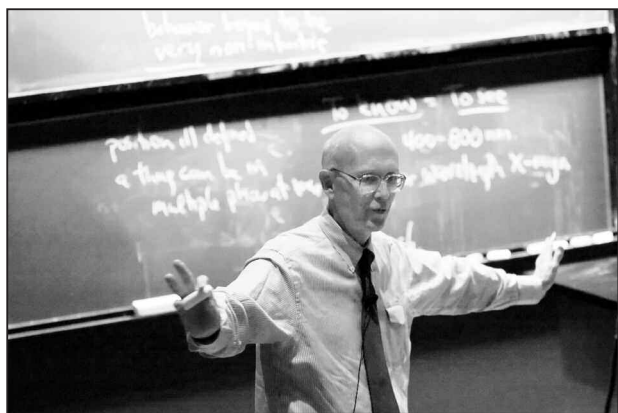
new drugs and extend soft materials into the world of three-dimensional microelectronics, and into con-

sumer devices such as solar cells. Within this work he developed soft lithography, a set of methods for printing and molding organic-based substances to make complex patterns at the micron and nanometer level.

Whitesides combined these approaches for creating materials with the concept of polyvalency and developed a new paradigm for drug design. This has resulted in affordable medical diagnostics expected to have a major impact on health in the Third World as well as new drugs that manage cholesterol, improve dialysis, and combat multiple-drug-resistant pathogens.

Henry C. Walter, president of the Dreyfus Foundation, said, "I believe the Dreyfus brothers — materials chemists, inventors, and businessmen — would be very proud to honor George Whitesides, a chemist who has generated so much value to society based on his innovative chemistry research. It reflects the Dreyfus Foundation charter admirably."

George Whitesides (right) has had a major and sustained impact in the chemical sciences and materials chemistry.



File Stephanie Mitchell/Harvard News Office

Yield

(Continued from page 1)

is African-American, compared to 8.4 percent last year, while the percentage of Latinos rose from 7.1 percent to 9.5 percent.

Harvard eliminated its Early Action program two years ago to have additional time in the fall to recruit a more diverse class, leveling the playing field for students needing financial aid who were less likely to apply early. "Although it will be several years before we will know for certain what the full effect of eliminating Early Action might be, we are encouraged by the results so far," said Sarah C. Donahue, director of financial aid. "Financial aid officers spoke with twice the number of students we normally do in the month of April, a measure of the distress families are feeling as a result of the economy as well as the result of having a more economically diverse applicant pool," she said.

That Harvard still has the highest yield among peer institutions is particularly notable because Harvard no longer has the advantage of an early admissions program, which gives other colleges several additional months to recruit admitted students. Harvard has never practiced Early Decision, which boosts yield by requiring students admitted early to attend.

The Admissions Committee has already begun to admit students from the waiting list. "While we still need to hear from a few more of the students admitted in April, it appears that we will be able to admit at least 85 students," said Marlyn McGrath, director of admissions. "We will admit as many as possible this month and complete our work no later than July 1," she said.

This year's Class is quite similar to last year's with respect to gender and intended field of concentration. At the moment, there are 17 more men than women (almost exactly the reverse of last year); 26 percent intend to concentrate in the biological sciences, 25 percent in the social sciences, 22 percent in the humanities, 12 percent in engineering or computer science, 7 percent in math, and 7 percent in the physical sciences. One percent is undecided.

A record percentage (nearly 21 percent) of the Class is composed of students who are international citizens, U.S. permanent residents, or U.S. dual cit-

izens, compared to just over 19 percent last year. Geographic distribution, however, is very similar to last year with 24 percent from the Middle Atlantic States, 20 percent from the Mountain and Pacific states, 17 percent from New England, 16 percent from the South, 13 percent from the Midwest, and 10 percent from foreign countries (of whom a fifth are from Canada).

Harvard's April Visiting Program, directed by admissions officer James Pautz, once again proved why it has set the standard for such programs. Faculty members, administrators, and current undergraduates made the weekend a great success, fielding many questions in person, on the telephone, and via e-mail during the weekend and the month of April. Undergraduates — through the Undergraduate Admissions Council, the Undergraduate Minority Recruitment Program, and the Harvard Financial Aid Initiative — telephoned and e-mailed admitted students and hosted students in Cambridge. Members of the admissions staff, including David L. Evans, director of the Undergraduate Admissions Council, Roger Banks, director of Minority Recruitment, and Melanie Brennan Mueller, director of the Harvard Financial Aid Initiative, ensured that admitted students had the opportunity to learn more about Harvard before making their final college choices. Alumni/ae hosted numerous "admit parties" and telephoned admitted students in their local areas, making a critical difference in Harvard's efforts to enroll the nation's and the world's finest students.

Even as the Visiting Program was taking place under sunnyskies, Harvard admissions officers were on the road with four other colleges recruiting students for next year's Class of 2014. By the end of May, they will have visited 60 cities and will visit 60 more in the fall with the same group. In addition, letters will be sent to thousands of prospective applicants during the month of May, setting the stage for outreach to what will be next year's applicant pool.

"The positive results for the Class of 2013 — along with the many inspiring students and their families we met during the month of April — illustrate the value of Harvard's year-round pursuit of students who will bring excellence in its many forms to Harvard," said Fitzsimmons.

Zebrafish

(Continued from page 1)

leagues discovered that compounds that modulate blood flow had a potent impact on the expression of a master regulator of blood formation, known as Runx1, which is also a recognized marker for the blood stem cells that give rise to all the cell types in the blood system.

Confirming this observation, a strain of mutant embryos that lacked a heartbeat and blood circulation exhibited severely reduced numbers of blood stem cells. Further work showed that nitric oxide, whose production is increased in the presence of blood flow, is the key biochemical regulator: Increasing nitric oxide production restored blood stem cell production in the mutant fish embryos, while inhibiting nitric oxide production led to reduced stem cell number.

Zon and colleagues went on to demonstrate that nitric oxide production was coupled to the initiation of blood stem cell formation across vertebrate species. Suppression of nitric oxide production in mice, by either genetic or chemical means, similarly reduced the number of functional Runx1-expressing blood stem cells.

"Nitric oxide appears to be a critical signal to start the process of blood stem cell production," says Zon, who is also affiliated with the HSCI. "This finding connects the change in blood flow with the production of new blood cells."

The second team, publishing in *Nature*, was led by George Q. Daley, director of the Stem Cell Transplantation Program at Children's Hospital Boston, and Guillermo García-Cardeña, director of the Laboratory for Systems Biology of the Center for Excellence in Vascular Biology at BWH, along with scientists from the Indiana University School of Medicine. Intrigued by the appearance of blood progenitors in the wall of the developing aorta soon after the heart starts beating, they investigated the effects of mechanical stimulation on blood formation in cultured mouse embryonic stem cells.

They showed that shear stress — the frictional force of fluid flow on the surface of cells lining the embryonic aorta — increases the expression of master regulators of blood formation, including Runx1, and of genetic markers found in blood stem cells. Shear stress also increased formation of colonies of progenitor cells that give rise to specific lineages of blood cells (red cells, lymphocytes, etc.). These findings demonstrate that biomechanical forces promote blood formation.

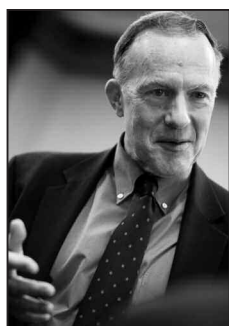
Daley, García-Cardeña, and colleagues also studied mouse embryos with a mutation that prevented initiation of the heartbeat. These embryos had a sharp reduction in progenitor blood cell colonies, along with reduced expression of genetic markers of blood stem cells. When specific cells from the mutant embryos were exposed *in vitro* to shear stress, markers of blood stem cells and numbers of blood cell colonies were restored.

Finally, the team showed that when nitric oxide production was inhibited, in both cell cultures and live mouse embryos, the effects of shear stress on blood progenitor colony formation were reduced.

"In learning how the heartbeat stimulates blood formation in embryos, we've taken a leap forward in understanding how to direct blood formation from embryonic stem cells in the petri dish," says Daley, who is also affiliated with the HSCI.

"These observations reveal an unexpected role for biomechanical forces in embryonic development," adds García-Cardeña. "Our work highlights a critical link between the formation of the cardiovascular and hematopoietic systems."

The authors of the two papers speculate that drugs that mimic the effects of embryonic blood flow on blood precursor cells or on molecules involved in nitric oxide signaling might be therapeutically beneficial for patients with blood diseases. For example, nitric oxide could be used to grow and expand blood stem cells either in the culture dish or in patients after transplantation.



"The dramatic economic downturn of recent months has severely compromised the ability of many families to assist their daughters and sons with college costs. Our new financial aid program arrived none too soon..."

William R. Fitzsimmons

Half a century after C.P. Snow lamented the gap between 'the two cultures,' the debate goes on



Stephanie Mitchell/Harvard News Office

Laurence Tribe (left) and Venkatesh Narayanamurti at the symposium marking the 50th anniversary of C.P. Snow's influential lecture on 'the two cultures.'

Still 'two cultures' but who's on top?

By Colleen Walsh
Harvard News Office

Fifty years ago a simple lecture sparked a global debate with lasting implications.

On May 7, 1959, British physicist and novelist C.P. Snow declared that the gap between "two cultures," that of the sciences and the humanities, was a destructive divide hampering the effort to find solutions to the problems of the world.

In his Rede Lecture at the University of Cambridge, eventually published in book form as "The Two Cultures and the Scientific Revolution," Snow, among other things, famously contended that even the brightest "literary intellectuals" couldn't accurately recount an important and universal scientific law.

"Once or twice I have been provoked and have asked the company how many of them could describe the Second Law of Thermodynamics, the law of entropy," wrote Snow of his meetings with the literary elite. "The response was cold: it was also negative. Yet I was asking something which is about the scientific equivalent of: 'Have you read a work of Shakespeare's?'"

For Snow, a reciprocal lack of appreciation and understanding between the "two cultures" was cause for serious concern.

A collection of scholars took up the discussion in a two-day symposium last week (May 7-8), 50 years to the day Snow first made his claim. The event was co-sponsored by the Program on Science, Technology and Society at the Harvard Kennedy School, the Harvard University Center for the Environment, Harvard's School of Engineering and Applied Sciences, The Humanities Center at Harvard, and the Program in Science, Technology and Society at the Massachusetts Institute of Technology (MIT). The Kennedy



Steven Shapin and Joyce E. Chaplin listen to introductions at the beginning of the first panel of the symposium.

School's Pforzheimer Professor of Science and Technology Studies Sheila Jasanoff moderated the symposium.

Steven Shapin, Franklin L. Ford Professor of the History of Science, called Snow's work "silly" and "bad," in an opening panel at Harvard Law School's (HLS) Maxwell-Dworkin Auditorium on May 7. Snow's division of academic thought into two cultures was inaccurate, said Shapin, and his comparison of the optimistic scientist and the pessimistic literary intellectual was "absurd."

"The Two Cultures' is a fairly straightforward argument for more science in the curriculum and more respect paid to science in the culture. It aims to redress an imbalance, one evident at least in Snow's opinion," said Shapin, who added that if Snow were living today he would instead "be arguing for more respect paid to Elizabethan poetry, and less to, say, electrical engineers."

But many of the panelists agreed that

Snow's argument about the need for better communication among the disciplines, though less pronounced today, is still important. And many agreed that education is perhaps the best road forward.

As science has progressed, "We have seen diminished boundaries or territorial limits of the individual disciplines," said James McCarthy, Alexander Agassiz Professor of Biological Oceanography, who was optimistic about Harvard's new undergraduate General Education curriculum as a means of making the boundaries even more porous. The new science courses, he said, include an area of study called the Science of Living Systems, which involves a comprehensive treatment of both the natural and the social sciences.

"Those of us in physics or mathematics or engineering must find ways of describing our discipline to everybody. ... It's not an easy thing to do," said Venkatesh Narayanamurti, the John A. and Elizabeth

(See **Cultures**, next page)

Looking for subatomic insights in Minnesota

By Alvin Powell
Harvard News Office

After years of planning, officials broke ground this month for a new high-energy physics experiment that will probe the behavior of one of the basic particles that make up the universe: the neutrino.

The \$278 million NOvA project, whose construction was jump-started with federal stimulus dollars, is run by the Fermi National Accelerator Laboratory in Batavia, Ill., and involves 181 investigators from 26 institutions, including Harvard.

Gary Feldman, the Frank B. Baird Jr. Professor of Science, heads a Harvard team including engineers, fellows, and students that is designing and building key electronics boards — 12,000 of them. The boards, which need to be cooled to minus 15 degrees Celsius, convert a light signal given off when a neutrino hits the detector into a digital signal that can be recorded and analyzed. Feldman also serves as co-spokesman for the project.

"This is the primary U.S. high-energy accelerator experiment for the next decade," Feldman said. "We're trying to measure some of the most fundamental parameters of physics."

NOvA builds on an earlier project at Fermilab called MINOS and will use the same neutrino beam. The experiment consists of two detectors hundreds of kilometers apart. The near detector, located a kilometer from Fermilab, will provide a baseline measurement of the neutrinos in the beam. The far detector is located 810 kilometers away near the northern Minnesota town of Ash River, and will measure how the beam has changed as it traveled there. The project's name is an acronym within an acronym. NOvA stands for "NuMI Off-Axis Electron Neutrino Appearance Experiment," while NuMI is a reference to the neutrino beam and stands for "Neutrinos at the Main Injector."

There are three different kinds of neutrinos among the 12 elementary particles that are the most basic building blocks of the universe. Two of the three kinds, the muon neutrino and the electron neutrino, are the primary subject of the NOvA experiment. Physicists have previously observed that the different neutrinos are able to change into each other. The rarest of these conversions is that of the muon neutrino into the electron neutrino through a process called oscillation. NOvA has been designed to study this phenomenon.

"We have discovered over the past decade that neutrinos will oscillate into each other over time," Feldman said.

In addition to the behavior of neutrinos, NOvA may shed light on a basic phenomenon called the "CP violation." In physics, every type of particle is expected to have an antiparticle: an electron has an antielectron, called a positron, for example. At the birth of the universe in the Big Bang, it is thought that an equal number of particles and antiparticles were created. However, in the world around us, antiparticles are rare, which is likely a consequence of CP violation in the first instants of the universe.

Neutrinos are small and extremely fast, traveling close to the speed of light. Since they can easily pass through the entire

(See **Feldman**, next page)

HBS teams share dreams for success

In a series of presentations in Burden Auditorium, teams of students recently presented their ideas and dreams for entrepreneurial success at the final round of Harvard Business School's (HBS) 13th annual Business Plan Contest. A record 93 teams entered the competition this past January, and over time the panels of judges from fields such as venture capital, consulting, law, accounting, life sciences, and high technology reduced the field to the eight semifinalists (four teams in the for-profit track and four in the social en-

For additional information,

www.hbs.edu/news/releases/2009bizplancontest.html

terprise track), before ultimately announcing one winner from each track.

In the traditional track, second-year M.B.A. students Matthew Prince and Michelle Zatlyn received top honors as the entrepreneurs behind CloudFlare, a Web security venture that will enable Web sites to protect themselves from online attacks. William J. Abernathy Professor of Business Administration Tom Eisenmann served as the team's faculty adviser.

In the social enterprise track, the winner was EGG-Tech, a start-up that aims to provide a battery charging and swapping subscription service to households in Tanzania, where 35 million people live without electricity. In a country where kerosene is often the dangerous energy substitute of choice, this venture will provide a cheaper, safer, and more convenient alternative energy source. Advised by Daniel Isenberg, senior lecturer of business administration at HBS, the EGG-Tech team included Emmanuel Cassimatis, Alla Jezmir, and Benjamin Lambert, all members of the HBS M.B.A. Class of 2009, as well as Jamie Yang, a postdoctoral associate at the Massachusetts Institute of Technology (MIT), and MIT doctoral students Jukka Valimaki and Blandine Antoine.

Winning teams in each track received \$25,000 in cash and \$25,000 of in-kind accounting and legal services. In addition, following a tradition that began nine years ago, the CloudFlare team received the Dubilier Prize, which honors the late

Martin Dubilier, M.B.A. '52, co-founder of the prominent leveraged buyout firm Clayton, Dubilier & Rice, and the EGG-Tech team received the Peter M. Sacerdote Prize, established by Sacerdote, M.B.A. '64, in honor of his 40th reunion at Harvard Business School to encourage HBS students to apply their skills to develop and launch social-purpose ventures.

Three traditional track runners-up:

Novophage Therapeutics will commercialize a new and more effective therapy to treat antibiotic-resistant bacterial infections (Ann DeWitt, HBS; Tanguy Chau, Michael Koeris, and Timothy Lu, Novophage Therapeutics). The faculty adviser was Gary Pisano, the Harry E. Figgie Jr. Professor of Business Administration at HBS.

Vox Insurance will offer automobile owners in the United States who drive fewer than 12,000 miles a year the benefits of an innovative insurance company that provides lower rates and superior customer service, while encouraging people to help the environment by driving less in order to take advantage of their services (Michael Newton and Jon Altman, HBS). The faculty adviser was Mukti Khaire, assistant professor of business administration at HBS.

YouTea! will offer an over-the-counter beverage — first in powdered form, then in a bottle — that will provide a low-calorie, low-acidic solution to urinary tract infections (Alex Herzlinger, Nimmi Roche, and Tina Wu, HBS; Ashkan Kamali, MIT). The team was advised by Robert Higgins, senior lecturer of business administration at HBS.

Runner-up in social enterprise track:

Doodh Bhandar hopes to transform the lives of 1 million rural poor in India by creating a market-based solution to increase the productivity of their cattle (Siddharth Tata, HBS; and Shalaka Joshi). V. Kasturi Rangan, the Eliot I. Snider and Family Professor of Business Administration, served as the adviser.

The runners-up received \$10,000 in cash and \$10,000 of in-kind services, as well as the Satchu-Burgstone Entrepreneurship Award, which was endowed by Jon Burgstone, M.B.A. '99, Asif Satchu,

M.B.A. '99, and Reza Satchu, M.B.A. '96, in 2001. After being named runners-up in the 1999 contest, these alumni went on to achieve considerable commercial success with their plan for SupplierMarket.com, an online marketplace for buying and selling manufactured materials.

Past participants in the HBS Business Plan Contest have created many successful companies such as Diagnostic-For-All, a nonprofit enterprise that has developed a low-cost, paper-based "lab-on-a-chip" for diagnosing diseases in poor regions around the globe; EyeView, which helps Web sites convert visitors into customers; Good Start Genetics, which is developing a low-cost, pre-pregnancy test for multiple genetic disorders; Finale, a Boston-area chain of four upscale restaurants specializing in fine desserts; and New Leaders for New Schools, a national nonprofit organization devoted to improving education for all children by attracting and preparing the next generation of outstanding leaders for urban public schools.

Run under the auspices of the HBS Arthur Rock Center for Entrepreneurship and the Social Enterprise Initiative, the HBS Business Plan Contest is the capstone of the School's extensive M.B.A. entrepreneurship curriculum, providing an integrative learning experience for all participants. The prime objectives of the contest are to educate students in the process of creating and evaluating new business ventures, prepare them for opportunities in traditional and social entrepreneurship during their careers, and harness the unique resources that HBS offers.

The contest is one of several special programs funded by the Rock Center, which was created through the generosity of prominent venture capitalist Arthur Rock, M.B.A. '51. In 2003, he donated \$25 million to HBS to support the entrepreneurship faculty and their research, fellowships for M.B.A. and doctoral students, symposia and conferences, and new outreach efforts to extend the impact of the School's extensive work in this field. To further contribute to its research and course development efforts, HBS also established the California Research Center in the heart of Silicon Valley in 1997.

Feldman



Courtesy of Gary Feldman

Gary Feldman: 'This is the primary U.S. high-energy accelerator experiment for the next decade.'

(Continued from previous page)

Earth, they are also difficult to detect. The May 1 groundbreaking was for the experiment's far detector, which will be built over the next three years in a large pit near Ash River that will be then covered with earth. The near detector, much smaller, will be built over the next year.

The far detector is made up of 385,000 plastic tubes filled with scintillating mineral oil. It will stand five stories high, have an equal width, and run three-quarters the length of a football field. The first measurements are expected from the equipment in 2012.

Feldman spoke at the groundbreaking along with two U.S. congressmen, the president of the University of Minnesota, which is hosting the facility, and officials from the Department of Energy and Fermilab. Feldman said later that after years of ups and downs — the project was zeroed out in the federal fiscal 2008 budget — it is a relief to see it moving forward.

"It was very gratifying to see it get off the ground," Feldman said.

IN BRIEF

Semitic Museum to host tour of 'The Houses of Ancient Israel'

The Semitic Museum will host a lunchtime tour of "The Houses of Ancient Israel: Domestic, Royal, Divine" on May 21 at 12:15 p.m., offering a view of life in an ancient Near Eastern agricultural society. The exhibit — which displays family dwellings, palaces, and temples — is arranged in terms of the different types of ancient Israeli buildings and houses that were associated with the different levels of society.

Reischauer Institute seeks papers

The Edwin O. Reischauer Institute of Japanese Studies is now accepting submissions for its 2009 Noma-Reischauer Prizes in Japanese Studies, given to the undergraduate and graduate students with the best essays on Japan-related topics. The submission deadline is June 30, and \$3,000 will be awarded for the best graduate student essay and \$2,000 for the best undergraduate student essay.

Papers written this academic year are eligible, including course and seminar papers, B.A. or M.A. theses, or essays written specifically for the competition. Doctoral dissertations are excluded from consideration. For application guidelines and further information, visit www.fas.harvard.edu/~rijs or call (617) 495-3220.

Cultures

(Continued from previous page)

S. Armstrong Professor of Engineering and Applied Sciences and professor of physics, adding that whatever the discipline, inspiring a student's curiosity is essential.

"Science can in various ways can teach people curiosity. ... We should try to do that," said Narayanamurti.

Discussion on the symposium's second day covered topics ranging from the Internet to the threat of climate change.

The computer generation, the domain of Jonathan Zittrain, was at the heart of his talk titled "Ordering the Wild Frontier: The Cultures of the Internet."

The Internet, said the professor of law at Harvard Law School and faculty co-director of its Berkman Center for Internet and Society, offers another type of culture — one with a scientific and collaborative nature. Wikipedia, the popular online encyclopedia, where users update pages with information and are even able to

rewrite its rules, is scientific in its desire to have all sources credibly cited, said Zittrain. It is also an example of a "culture of collaboration."

The Wikipedia culture is one where "you are supposed to bring [not only] what you do know but your curiosity about what you don't know and a willingness to explore it," Zittrain said. He added that getting kids to explore certain Internet cultures — ones that value truth and dialogue and neutrality — is "the best hedge that we can offer ourselves that the next generation ... subscribes to the kinds of values that ... Snow was trying to articulate as the important ones."

Respect for other cultures and acknowledging other points of view is vital, offered Daniel Schrag, professor of Earth and planetary sciences, who, as director of the Center for the Environment, interacts with 11 separate Schools at Harvard.

"When you interact with so many people from different cultures from one uni-

versity, ... you appreciate how many different perspectives there are," said Schrag. He pointed out that an essential virtue of collaboration is "respecting what you don't know and respecting what other people have to offer.

Solving climate change, said Schrag, requires a variety of players including those in science, business, economics, and even the humanities. He noted that China and India will both play "a central role in thinking about climate change moving forward. One has to be conscious of cultural issues, historical differences — and there are some things that humanists have to offer to that discussion as well."

Too often, he argued, people don't pay enough respect to different cultures, and instead worry about which culture, whether deserving or not, will assume the most power.

"In my particular experience," said Schrag, "a little bit of humility is important in all of this."

colleen_walsh@harvard.edu

NEWSMAKERS

Bhabha to receive honorary degree, jury Biennale

Anne F. Rothenberg Professor of the Humanities and Director of the Humanities Center **Homi K.**

Bhabha will receive an honorary degree from the University of Paris VIII-Vincennes-Saint Denis on May 28.

While in Paris, Bhabha will give a seminar at the École des hautes études en sciences sociales, and serve

as a juror at the 53rd International Art Exhibition at the Venice Biennale in June.

He will deliver a keynote address at the "Changing the Humanities/The Humanities Changing" international conference in July as part of the anniversary celebrations of the University of Cambridge.



File Stephanie Mitchell/HNO

Bhabha**Japanese Government honors Professor Edwin A. Cranston**

The government of Japan announced its decision to award **Edwin A. Cranston**, professor of Japanese literature, the decoration of the Order of the Rising Sun, Gold Rays with Neck Ribbon, on April 29. Cranston is recognized for his contribution in introducing classical Japanese literature to the people of the United States and other parts of the world, and in nurturing many young Japanologists.

Cranston has dedicated himself as an instructor in Japanese language and literature at Harvard for 44 years. He became an assistant professor as a specialist of Japanese literature in 1966, becoming a full professor in 1972.

Cranston has translated the Japanese waka, a 31-syllable poem, from the ancient period to the medieval period, and has introduced waka internationally with his detailed footnotes and commentary. His two volumes of "A Waka Anthology" (1993, 2006) have brought to light thousands of poems from ancient texts. Cranston's most recent book on Japanese poetry is titled "The Secret Island and the Enticing Flame" (2008).

Paulus nominations, recognitions

American Repertory Theater Artistic Director **Diane Paulus'** production of "Hair" has been nominated for eight Tony Awards, five Drama Desk Awards, and four Outer Critics Circle Awards (including Best Director), in addition to several Drama League Awards.

In addition to these nominations, Paulus has also been the recent recipient of awards from both her alma maters: Harvard University and Columbia University, accepting the 2009 Harvard College Women's Leadership Award and the I.A.L. Diamond Award, presented each year to a Columbia University alumnus/a who has demonstrated continued commitment to and has found success in the arts.

The American Theatre Wing's 63rd annual Tony Awards ceremony will take place on June 7 at Radio City Music Hall and will be televised on CBS at 8 p.m. The Drama Desk Awards will take place at the F.H. La Guardia Concert Hall at Lincoln Center on May 17.

— Compiled by Sarah Sweeney and Gervis A. Menzies Jr.



Courtesy of the Houghton Library/Harvard University

Written by Maurice Leblanc, a contemporary of Doyle's, 'The Case of the Golden Blonde' pits Doyle's famous detective against Leblanc's master thief Arsene Lupin. The book is one of many rare Holmes volumes included in the Houghton exhibition.

Not so elementary, my dear Watson

Symposium studies Doyle's various contributions to literature

By Peter Reuell
HCL Communications

For more than a century, Sherlock Holmes, the most famous creation of Sir Arthur Conan Doyle, has captivated mystery fans, literary scholars, and researchers of virtually every stripe. But, as dozens of Doyle scholars and Sherlockians showed during a recent three-day symposium at Harvard, the Holmes literature stories represent only a small part of Doyle's contribution to literature.

To mark the 150th anniversary of Doyle's birth, dozens of scholars from around the world gathered at Houghton Library May 7-9 for the symposium, titled "Sir Arthur Conan Doyle: A Sesquicentennial Assessment," which featured speakers including Andrew Lycett, Dan Posnansky, Leslie Klinger, and Giles Constable, as well as the screening of several Sherlock Holmes films, presented by the Harvard Film Archive.

The three-day event was complemented by an exhibition of Doyle material, "Ever Westward": Sir Arthur

Conan Doyle and American Culture," which includes rare books, manuscripts, and ephemera from Houghton's collections, including the H.W. Bell/Speckled Band of Boston Collection and the Baker Street Irregulars archive, which was recently given to the library, and private collections. The exhibition will be on display in the Edison and Newman Room in Houghton Library through Aug. 8.

"Many people have tried to answer the question as to why Sherlock Holmes has endured," said Dan Posnansky, member of the Baker Street Irregulars (a prominent Sherlockian society) and co-curator of the Houghton exhibit. "I think it's a matter of Holmes, the man ... and most of all the time he lived in, Victorian England."

Though Doyle is most widely known as the creator of Sherlock Holmes, the portrait that symposium participants rendered ran far beyond detective fiction. Doyle was voraciously curious, a meticulous researcher who often spent months studying history before putting pen to paper, an innovator in genres such as science fiction and fantasy, and

an author quick to heap praise on the writers he felt inspired his greatest creations.

"Doyle never missed an opportunity to praise Edgar Allen Poe," said Daniel Stashower, a member of the Baker Street Irregulars and author of "Teller of Tales: The Life of Arthur Conan Doyle" (Henry Holt, 1999) and five mystery novels. "Doyle referred to him as the 'supreme short story writer of our time.'"

Doyle's high praise, Stashower suggested, illustrates the degree to which Doyle believed he owed Poe a literary debt. With his "Dupin" stories, such as "The Murders in the Rue Morgue," Poe created an early template for the detective story, which Doyle would later build on: the brilliant detective, the story narrated by the sleuth's close friend, and the mystery's solution resulting from a leap of deductive reasoning.

While Doyle may have drawn inspiration from Poe in his creation of Holmes, in the century since the detective's first appearance, many more — in-

(See **Doyle**, next page)



File Stephanie Mitchell/HNO

Paulus

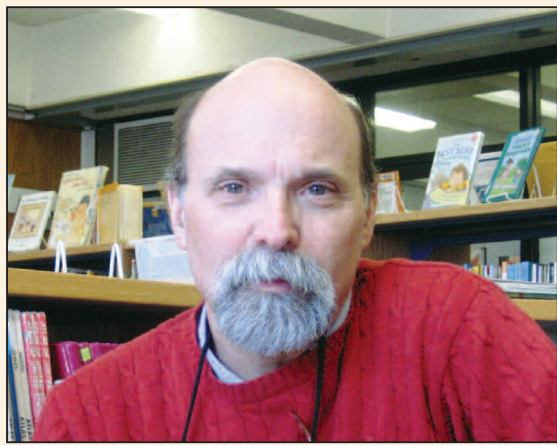


Photo by Martha Osler/Cambridge School Volunteers

HGSE's Scott Ruescher was honored with the Mack Davis Award.

Ruescher's public service recognized

Scott Ruescher of the Harvard Graduate School of Education (HGSE) was honored by the Cambridge School Volunteers (CSV) with its annual Mack Davis Award on May 13. Ruescher is the program coordinator for the Arts in Education Program at HGSE. He was **community** one of six volunteers to receive this award.

The award, named for the late Mack I. Davis II, former CSV board member and Harvard administrator with a strong record of public service, recognizes the extraordinary commitment shown by volunteers.

Ruescher was one of the first to enroll as a volunteer in HGSE's Reading Buddies Program in 2001.

Since then, he has logged hundreds of hours in the read-aloud program at Amigos School in Cambridge. Ruescher also volunteers as a substitute in the Spanish-language Buddies program, *Lectores y Amiguitos*.

"Scott delights in the relationships he forms with his reading buddies in the Cambridge Public Schools," said Steve Seidel, Patricia Bauman Arts in Education Professor at HGSE. "I don't think he's ever missed a session, and [he] always comes back in a great mood."

Ruescher, a poet, uses the magical interplay of language to engage his reading buddies. Puddinghouse Publications will publish his chapbook, "Sidewalk Tectonics," later this year.

NEWSMAKERS

Holocaust Museum names Suleiman Scholar-in-Residence

The Center for Advanced Holocaust Studies of the U.S. Holocaust Memorial Museum has named **Susan Rubin Suleiman**, the C. Douglas Dillon Professor of the Civilization of France, professor of comparative literature, and acting chair of the Department of Literature and Comparative Literature, to be the J.B. and Maurice C. Shapiro Senior Scholar-in-Residence at the museum for 2009-10. Each year the Shapiro scholar gives one formal public lecture as well as two senior seminar sessions for museum staff and fellows at the center.

Rowland Institute names two new junior fellows

The Rowland Institute at Harvard has selected two new junior fellows for the institute's fellowship program: **Christopher T. Richards**, a teaching fellow and research assistant in organismic and evolutionary biology at Harvard, and **Yuki Sato**, a postdoctoral researcher at the University of California, Berkeley.

Richards, who concentrates on muscle mechanics and hydrodynamics of frog movements, will focus further on muscle mechanics, ultimately developing a robotic frog in the course of his research. Sato, who developed instruments to investigate superfluidity while at Berkeley, seeks to explore superfluid matter interferometry at Rowland.

Fellows are selected to perform independent experimental research for five years, with full institutional support and access to Rowland's outstanding technical and scientific resources. Richards and Sato will join the nine junior fellows currently at Rowland.

Eck delivers Gifford Lectures

Diana Eck, Fredric Wertham Professor of Law and Psychiatry in Society and member of the faculty of divinity, recently traveled to Scotland to deliver a series of Gifford Lectures at the University of Edinburgh (April 27-May 7). The lecture series, which was established in 1888 through the endowment of Lord Gifford to four Scottish Universities (Edinburgh, St. Andrews, Aberdeen, and Glasgow), is the oldest lecture series in Scotland and has been described as "the highest honor in a philosopher's career" as lectures focus on the intersections of religion, philosophy, and science.

— Compiled by Gervis A. Menzies Jr. and Sarah Sweeney

Send news briefs to gervis_menzies@harvard.edu

Doyle



Courtesy of the Houghton Library/Harvard University

(Continued from previous page)

cluding many prominent scholars — have since turned to the resident of 221b Baker St. for inspiration. A medieval history professor *emeritus* at the Institute for Advanced Study in Princeton, N.J., and author of more than 20 books, Giles Constable told attendees that echoes of Holmesian deduction can be traced through virtually every academic pursuit, including history, game theory, psychology, and art history.

"I would not suggest to a young historian," said Constable, "that they take Holmes' principles as their primary guide when they conduct their research, but they could do much worse than to keep them in mind."

The four Sherlock Holmes novels and 56 short stories represent barely more than 10 percent of Doyle's total writings, said Thomas J. Francis, a Baker Street Irregulars member who discussed Doyle's other writings.

Though they made him rich and famous, the Holmes stories were not among Doyle's favorites. He reserved his greatest affection for his historical novels, particularly "The White Company." The novel remains in print today, and was so popular during World War II that, despite a paper shortage, the British government set aside paper to ensure a sufficient supply for the book's printing, Francis said.

Doyle also wrote extensively on sport, including several well-received novels on boxing, as well as novels and short stories on French history. He also wrote eight books on spiritualism and several volumes of poetry.

But perhaps Doyle's greatest influence, aside from detective fiction, Francis suggested, came in the genre of science fiction. Following extensive research on fossils and science, Doyle authored "The Lost World," a

novel detailing an expedition to a plateau in Venezuela where dinosaurs and other extinct creatures still survive.

"The science fiction and fantasy work of Conan Doyle has had a profound impact on the genre, right up until today," Francis said, citing the very first film adaptation of the book, in 1925, which introduced the stop-motion animation technique.

Andrew Lycett, author of "Conan Doyle: The Man Who Created Sherlock Holmes," addressed Doyle's biographers and described a handful of sources he used in researching his acclaimed biography, including Doyle's personal notebooks.

"Conan Doyle always tried to bring a measure of scientific inquiry to whatever he was interested in, whether it was the nature of tuberculosis or paranormal phenomena," Lycett said. "But like his main creation — Sherlock Holmes — Conan Doyle remains a fascinating enigma; that's why we find him such a fascinating character [and] so eminently worthy of discussion 150 years after his birth."

While it's clear that Doyle and Holmes have had a rich history, many symposium participants were also eager to learn what the future may hold — a new Sherlock Holmes film, starring Robert Downey Jr., is slated for release later this year, and shades of Holmes can be found throughout modern popular culture.

"I think it will be a great reawakening of public interest; I think it will be the beginning of another wave of interest, just as we saw in the '70s with "The Seven-Per-Cent Solution," said Leslie Klinger, editor of "The New Annotated Sherlock Holmes." "I think this will bring the books back into focus."

A postcard sent to subscribers of the Boston Sunday Post advertising the publication of Sir Arthur Conan Doyle's novel 'Sir Nigel' in the newspaper's Sunday magazine. The handwritten note boasts of the newspaper paying \$25,000 to secure exclusive publication rights to the novel.

"Ever Westward": Sir Arthur Conan Doyle and American Culture' is on display at Houghton Library through Aug. 8.

Calendar

Events for May 14-28, 2009

Inside



Arboreal amble

Take a walking tour of the trees of Harvard

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Deadlines

Important Calendar submission deadlines

Page 15

Harvard Film Archive

All films are screened in the Main Auditorium of the Carpenter Center for the Visual Arts, 24 Quincy St. Video presentations are presented in B-04, a smaller auditorium next to the main auditorium. Programs are subject to change; call for admission charges and details. The Film Archive publishes a schedule of films and events that is available at the Carpenter Center. (617) 495-4700, <http://hcl.harvard.edu/hfa/>.

Thu., May 14—No screenings

Fri., May 15—Romero's "Dawn of the Dead" at 9 p.m.

Sat., May 16—"A Live Event with Chris Marker" at 7 p.m.

Sun., May 17—Jean-Pierre and Luc Dardenne's "The Child" and "When the Boat of Léon M. Went Down The Meuse River for the First Time" at 7 p.m.

Mon., May 18—Jean-Pierre and Luc Dardenne's "Falsch" and "Look at Jonathan" at 7 p.m.

Tue., May 19—No screenings

Wed., May 20—No screenings

Thu., May 21—No screenings

Fri., May 22—No screenings

Sat., May 23—Jean-Pierre and Luc Dardenne's "You're On My Mind" at 7 p.m.

Sun., May 24—Jean-Pierre and Luc Dardenne's "La Promesse" and "Lessons from a University on the Fly" at 7 p.m.

Mon., May 25—Jean-Pierre and Luc Dardenne's "For the War to End, the Walls Should Have Crumbled" and "R... No Longer Answers" at 7 p.m.

Tue., May 26—No screenings
Wed., May 27—No screenings
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.

Real Colegio Complutense

Films are presented at Real Colegio Complutense, 26 Trowbridge St., in Spanish with English subtitles. Free and open to the public. (617) 495-3536, www.realcolegiocomplutense.harvard.edu.

Fri., May 15—Coixet's "Elegy" at 7:30 p.m.

Fri., May 22—Teshigahara's "Antonio Gaudi" at 7:30 p.m.

Fri., May 29—Romano and Sorogoyen's "8 citas" at 7:30 p.m.

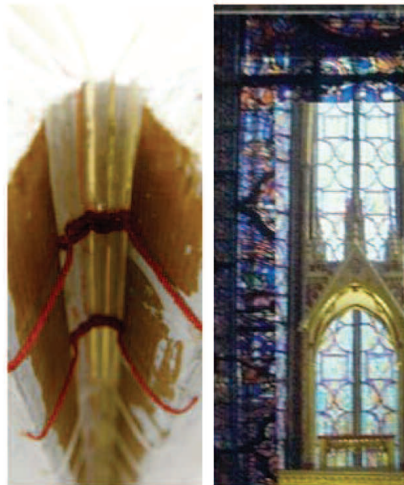
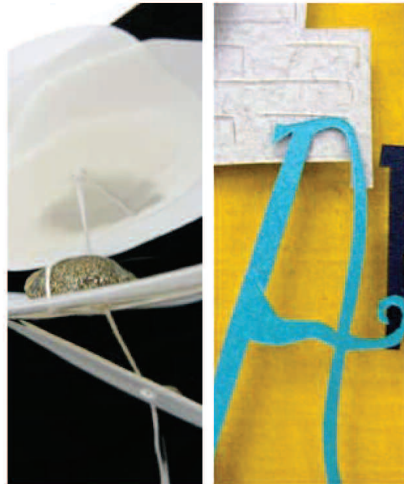
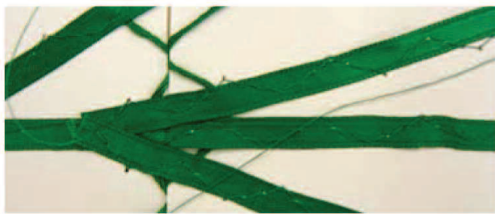
radio

Harvard Radio WHRB (95.3 FM)

WHRB presents the finest in classical,

(Continued on next page)

the installed book II



Exhibition

May 19–June 2, 2009
1st, 2nd, and 3rd floors, West Lobby
2nd and 3rd floors, Elevator Landing
Harvard Extension School
51 Brattle Street, Cambridge

Gallery hours

Monday–Thursday 8:45am–8:30pm
Friday 8:45am–5:00pm

An exhibition of handmade books which create and narrate experiences, memories, lives, and living through explorations of sequence, rhythm, space, and form.

Kelly Bowker
Sarah Cohodes
Carol Kerrissey
Joey Francoeur-Krzyzek
Maya Ismailova
Mary Kocol
Charlotte Maher
Dara Olmsted
Kimberly Salley



There will be a reception Tuesday, May 19, from 6:30 to 8 p.m. in the Grossman Common Room, Harvard Extension School.

concerts

Sat., May 16—"Back Bay Chorale 35th Anniversary Concert: Brahms & Wachner." (Harvard Box Office) BBC presents Brahms' "German Requiem" and the premiere of a major new work by former BBC music director composer Julian Wachner. Sanders Theatre, 8 p.m. Tickets are \$45/\$35/\$25 general; \$5 off students/senior citizens. Harvard Box Office (617) 496-2222, www.boxoffice.harvard.edu.

Sun., May 17—"Haydn, Stabat Mater." (Harvard Box Office) Masterworks Chorale presents Haydn's seldom-performed music. Sanders Theatre, 3 p.m. Tickets are \$42/\$30/\$20 general; \$3 off WGBH members/groups 10+; student rush \$5 cash only, available 1 hour prior to concert. Harvard Box Office (617) 496-2222, www.boxoffice.harvard.edu.

Sun., May 17—"Haydn, Beethoven, Brahms." (Harvard Box Office) Boston Chamber Music Society presents program of chamber music. Sanders Theatre, 7:30 p.m. Tickets are \$50/\$40/\$30/\$20 general; \$8 tickets in the \$30-20 sections students; \$4 off senior citizens, WGBH, MTA members; \$4 off O&I (at Harvard Box Office); student rush \$5 cash only, 1 hour prior to concert. Harvard Box Office (617) 496-2222, www.boxoffice.harvard.edu.

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.

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.

Thu., May 14—"Under 35 Night." Post-show mingling at Sandrine's Bistro.

Fri., May 22—"OUT at A.R.T. Night." For the GLBT community. Post-show mingling at Sandrine's Bistro.

film

Fri., May 15—"La Trappe (The Trap)." (HDS) Screening of film by Lina Verchery, HDS. A panel discussion to follow, featuring Christopher Queen, Frank Reynolds, and Verchery. Sperry Room, Andover Hall, HDS, 45 Francis Ave., 6 p.m. A reception will follow in the Braun Room.

(Continued from previous page) jazz, underground rock, news, and sports programming, and has 24-hour live Internet streaming from its Web site. Program guide subscriptions are free. (617) 495-4818, mail@whrb.org, www.whrb.org.

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

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

exhibitions

Adams House

"Painting Show: Recent Works by Ian

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

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.



Kris Snibbe/Harvard News Office

May 16

The Harvard Museum of Natural History (HMNH) presents a 'Walking Tour of the Trees of Harvard' Saturday, May 16, by experts

Schaff. (Through May 15)
—Adams House, 10 Linden St.

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.

"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.

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.

Cabot Science Library

"Rethinking the Darwinian Revolution" explores the Darwinian revolution and

from the Harvard Herbaria. Meet at the first floor lobby, HMNH, 26 Oxford St., at 11 a.m. Rain date is Sunday, May 17. Admission is \$9 (free

why Darwin still packs such a punch today. Open to the students from Janet Browne's history of science class. (Through May 22)
—Main floor, Cabot Science Library. (617) 496-5534.

Carpenter Center

"VES Thesis Show: The Arsenal" 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, 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 will draw on the papers of contributing scientists, physicians, and activists involved in reproductive health. The exhibit will include 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"

to members). Reservations required. Call (617) 384-8309 or e-mail hmnh-lectures@oeb.harvard.edu for details.

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.

"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.

Du Bois Institute

"Rotimi Fani-Kayode (1955-1989): Photographs" is a retrospective of large-scale color and black-and-white photographs from the estate of Fani-Kayode, including archival works exhibited here for the first time. Produced in the 1980s in a career spanning only six years, Fani-Kayode's photographic scenarios constitute a profound narrative of African sexual and cultural difference, seminal in their exploration of complex notions of identity, spirituality, and diaspora and the black male body as a subject of desire. (Through May 15)
—Neil L. and Angelica Zander Rudenstine Gallery, Du Bois Institute, 104 Mt. Auburn St., 3R. (617) 495-8508, www.dubois.fas.harvard.edu.

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

"Ecological Urbanism: Alternative and

Sustainable Cities of the Future" is an exhibition organized around the premise that an ecological approach is urgently needed both as a remedial device for the contemporary city and an organizing principle for new cities. (Through May 17)

—Gund Hall Lobby, GSD, 48 Quincy St. Free and open to the public. www.gsd.harvard.edu/events/exhibitions/current.htm.

"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.

Gutman Library

"Step Into Art" features artwork and

Calendar abbreviations

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

Belfer Center for Science and International Affairs	BCSIA
Bunting Society of Institute Fellows	BSIF
Center for American Political Studies	CAPS
Center for European Studies	CES
Center for Government and International Studies	CGIS
Center for Jewish Studies	CJS
Center for Middle Eastern Studies	CMES
Center for Population and Development Studies	CPDS
Center for Quality of Care Research and Education	QCARE
Center for the Study of Values in Public Life	CSVPL
Center for the Study of World Religions	CSWR
Committee for the Concerns of Women at Harvard-Radcliffe	CCW
Committee on African Studies	CAS
Committee on Degrees in Women's Studies	CDWS
Committee on Inner-Asian and Altaic Studies	CIAAS
Committee on Iranian Studies	CIS
David Rockefeller Center for Latin American Studies	DRCLAS
Division of Biological Sciences	BDS
Division of Health Sciences and Technology	DHST
East Asian Legal Studies Program	EALS
Graduate School of Design	GSD
Graduate School of Education	GSE
Harvard AIDS Institute	HAI
Harvard Art Museum	HAM
Harvard Buddhist Studies Forum	HBSF
Harvard College Library	HCL
Harvard Divinity School	HDS
Harvard Education Forum	HEF
Harvard Family Research Project	HFRP
Harvard Film Archive	HFA
Harvard Foundation for Intercultural and Race Relations	HFIRR
Harvard Gay and Lesbian Caucus	HGLC
Harvard Institute for International Development	HIID
Harvard International Office	HIO
Harvard Law School	HLS
Harvard Medical School	HMS
Harvard Museum of Natural History	HMNH
Harvard School of Dental Medicine	HSDM
Harvard School of Public Health	HSPH
Harvard-Smithsonian Center for Astrophysics	CfA
Harvard University Center for the Environment	HUCE
Institute of Politics	IOP
Kennedy School of Government	HKS
Law School Human Rights Program	LSHRP
Law School Program in Jewish Studies	LSPJS
Office for Information Technology	OIT
Office of International Education	OIE
Office of Work and Family Philosophy of Education Research Center	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 Thursday, May 28, by 5 p.m. There will be NO exceptions. Please call (617) 496-2651 with any questions.

writing by sixth-grade students from the Epiphany School in Dorchester, Mass. The artwork is inspired by portraits from the Harvard Art Museums. (May 18-June 5)
—Gutman Library, HGSE. 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 students with ID; free to Harvard ID holders, Cambridge Public Library card holders, members, and to people under 18 years old; free to the public on Saturday mornings 10 a.m.-noon and every day after 4:30 p.m. Tours are given Mon.-Fri. at 12:15 and 2 p.m. (617) 495-9400, www.harvardartmuseum.org. NOTE: The Fogg and Busch-Reisinger closed to the public on June 30 for a renovation project lasting approximately five years. The Sackler will remain open during the renovation.*

Harvard 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

“20 Books VI” is an exhibition of artists’ books created by students in the introductory Book Art class. The collection explores how content interacts with and is enhanced by structure and materials, and showcases handmade books that find novel ways of telling familiar stories, making them fresh, intriguing, and new again. (May 18)
—1st and 2nd floors, West Lobby, 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.

“the installed book II” is an exhibition of handmade books by Kelly Bowker, Sarah Cohodes, Carol Kerrissey, Joey Francoeur-Krzyzek, 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. A reception will be held Tue., May 19, 6:30-8 p.m. in the Grossman Common Room. (May 19-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.

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)

“Dodds, Trilobites, & Meteorites: Treasures of Nature and Science at Harvard” features hundreds of specimens documenting two centuries of scientific exploration, including a 42-foot long Kronosaurus skeleton, and the world’s largest turtle shell, over 7 feet long and 6 million years old. (Ongoing)

“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.” Over 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 over five decades by glass artists Leopold and Rudolph Blaschka, 3,000 glass models of 847 plant species. (Ongoing)
—The Harvard Museum of Natural History is located at 26 Oxford St. 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.hmnh.harvard.edu.

Harvard Neighbors

“Art Committee Members Show” features the artwork of Iris Chandler, Peter Mallen, Kathy Clark, Mimi Truslow, Alec Solomita, and Anne Aubrey. (Through May 22)
—Loeb House, 17 Quincy St. Call for hours. (617) 495-4313, neighbors@harvard.edu.

Holyoke Center

“Jamietron!” features pen, pencil, and crayon drawings by Jameson Violette, age 8, of people from TV shows and people in his life. (Through May 27)
—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. An opening reception will be held Thu., May 21, at 5:30 p.m. in the Edison and Newman Room of Houghton Library. (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.

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 performed research abroad during the past year. (Through June 30)
—Level B and first floor, Lamont Library. (617) 495-2455.

Landscape Institute

“Recording Climate Change ... Paintings and Journal Pages from the Arctic: Alaska and Baffin Island” features the work of Clare Walker Leslie. (Through May 21)
—Landscape Institute, 30 Chauncy St. (617) 495-8632, www.landscape.arboretum.harvard.edu.

“Independent Project Studio and Design IV Final Project Presentation.” (May 27-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. Opening reception on Wed., May 27, in the Peabody Museum and Tozzer Library, 11 and 21 Divinity Ave., 5-7 p.m. Reception free and open to the public. See also Tozzer Library. (May 27-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 meanings 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 a complete list of events, visit http://hcl.harvard.edu/libraries/Houghton/Diaghilev_symposium.html#events. (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. Opening reception on Wed., May 27, in the Peabody Museum and

(Continued on next page)

(Continued from previous page)
Tozzer Library, 11 and 21 Divinity Ave., 5-7 p.m. Reception free and open to the public. See also Peabody Museum. (May 27-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

Thu., May 14—“**Starting at Standing Rock: Following Custer and Sitting Bull to the Little Big Horn.**” (Peabody Museum) Nathaniel Philbrick, author. Geological Lecture Hall, 24 Oxford St., 5:30 p.m. Reception to follow in Peabody Museum, 11 Divinity Ave. Free and open to the public. (617) 496-1027, www.peabody.harvard.edu.

Thu., May 21—“**Free Lunchtime Tour**” (Semitic Museum) Tour of the exhibit “The Houses of Ancient Israel: Domestic, Royal, Divine.” Semitic Museum, 6 Divinity Ave., 12:15 p.m. Free. www.fas.harvard.edu/~semitic.

business/law

Thu., May 14—“**NGO Leaders in Humanitarian Aid and Development Seminar Series.**” (Hauser Center) Steve Hollingworth, COO, Care USA. L130, Bolton Lecture Room, Littauer Building, HKS, 79 JFK St., 11:30 a.m. Light refreshments served. Free and open to the public. www.hks.harvard.edu/hauser/engage/humanitarianorganizations/ngoleadersseminarseries/.

Thu., May 14—“**How Family Firms Have Become Agents of Globalization: Lessons from the Spanish Experience.**” (Real Colegio Complutense) Nuria Puig Raposo, UCM. Conference Room, RCC, 26 Trowbridge St., 7:30 p.m. Lecture in English. Free and open to the public. www.realcolegiocomplutense.harvard.edu.

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.

environmental sciences

Tue., May 19—“**Policy Redesign Recommendations for Solving Financial Bottlenecks in Demand Side Management Activities in China.**” (Belfer Center’s Energy Technology Innovation Policy Research Group) Yongzhen Yu, visiting scholar, Belfer Center. Littauer 369, Belfer Center Library, HKS, 79 JFK St., 9:30 a.m. <http://belfercenter.ksg.harvard.edu/events/3944>.

Thu., May 21—“**International Developments in Policy To Stimulate CCS and Other Low-Carbon Power Generation — A Project Developer’s Perspective.**” (Belfer Center’s Energy Technology Innovation Policy Research Group) Adam Whitmore, chief economist, Hydrogen Energy International. Littauer 369, Belfer Center Library, HKS, 79 JFK St., 9:30 a.m. <http://belfercenter.ksg.harvard.edu/events/3989>.

ethics

Thu., May 14—“**Ethical Issues in Global Health Research.**” (Harvard

Initiative for Global Health) Richard Cash, HSPH. Third floor, 104 Mt. Auburn St., 4 p.m. global_health@harvard.edu.

Mon., May 18—“**Moral Worlds and Religious Subjectivities: Perspectives From the Field of Comparative Religious Ethics.**” (CSWR) Lee H. Yearley, Stanford University. Sperry Room, Andover Hall, HDS, 45 Francis Ave., 4:30 p.m. Space is limited; reservations required. Register online at www.hds.harvard.edu/cswr/, or call (617) 495-4476.

health sciences

Thu., May 14—“**Ethical Issues in Global Health Research.**” (Harvard Initiative for Global Health) Richard Cash, HSPH. Third floor, 104 Mt. Auburn St., 4 p.m. global_health@harvard.edu.

Wed., May 20—“**Beyond Reason: Using Emotions as You Negotiate.**” (Harvard Initiative for Global Health) Dan Shapiro, HMS. Third floor, 104 Mt. Auburn St., 4 p.m. global_health@harvard.edu.

Thu., May 21—“**Technical and Cultural Innovation: Partnering as Agents for Global Health.**” (Harvard Initiative for Global Health) Doris Sommer, Harvard University, and Jose Trevejo, HMS. Third floor, 104 Mt. Auburn St., 4 p.m. global_health@harvard.edu.

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.

Medical School

Thu., May 14—“**Notable Books Series.**” (HMS, Countway Library) Thomas Maier, author, presents his book, “Masters of Sex: The Life and Times of William Masters and Virginia Johnson, the Couple Who Taught America How to Love.” Minot Room, Countway Library, 10 Shattuck St., 4:30 p.m. Booksigning to follow. A reception will be held afterwards in the Lahey Room. tracey_harik@hms.harvard.edu.

Tue., May 19—“**Subversion of a Liver-Specific MicroRNA by Hepatitis C Virus.**” (Microbiology & Molecular Genetics) Peter Sarnow, Stanford University. Room 341, Warren Alpert Building, HMS, 200 Longwood Ave., 12:30 p.m. Coffee is served prior to the event at 12:15 outside the room. shannon@hms.harvard.edu.

Tue., May 26—“**Virus Entry Into Cells: New Lessons from Ebovirus.**” (Microbiology & Molecular Genetics) Judith Miriam White, University of Virginia. Room 341, Warren Alpert Building, HMS, 200 Longwood Ave., 12:30 p.m. Coffee is served prior to the event at 12:15 outside the room. shannon@hms.harvard.edu.

School of Public Health

Mon., May 18—“**Epidemiology of Infectious Disease Lecture.**” (HSPH) Jonathan Eisen, U.C. Davis. Room 907, Epidemiology Library, Kresge Building, HSPH, 677 Huntington Ave., 12:30 p.m. Lunch is provided.

Thu., May 28—“**TB and Malaria Drug Discovery — What a Long Strange Trip It’s Been.**” (HSPH) James Sacchettini, 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

Fri., May 15—“**In Pursuit of Invisible Forces: Servants in History and Today.**” (Humanities Center) Daylong program featuring Markus Krajewski, Humanities Center; Markus Stock, University of Toronto; Raffaella Sarti, University of Urbino; Walter Johnson,

Harvard University; Thomas Brandstaetter, University of Vienna, Austria; and Wendy Chun, Brown University. Room 201, Kates Room, Warren House, 12 Quincy St., 10 a.m. Open to the public; seating is limited. www.fas.harvard.edu/~hum-centr.

Fri., May 15—“**La Trappe (The Trap).**” (HDS) Screening of film by Lina Verchery, HDS. A panel discussion to follow, featuring Christopher Queen, Frank Reynolds, and Verchery. Sperry Room, Andover Hall, HDS, 45 Francis Ave., 6 p.m. A small reception will follow in the Braun Room.

Mon., May 18—“**Moral Worlds and Religious Subjectivities: Perspectives From the Field of Comparative Religious Ethics.**” (CSWR) Lee H. Yearley, Stanford University. Sperry Room, Andover Hall, HDS, 45 Francis Ave., 4:30 p.m. Space is limited; reservations required. Register online at www.hds.harvard.edu/cswr/, or call (617) 495-4476.

Thu., May 21—“**How White is the White House: American Presidents and the Politics of Race.**” (Du Bois Institute) Britta Waldschmidt-Nelson, Amerika-Institut Ludwig-Maximilians-Universität, München. Thompson Room, Barker Center, 12 Quincy St., noon. www.dubois.harvard.edu.

Thu., May 21—“**Amica America: Spanish Exiled Professors in U.S. Universities.**” (Real Colegio Complutense) Carolina Rodríguez López, UCM. 26 Trowbridge St., 7:30 p.m. Lecture in English. Free and open to the public. www.realcolegiocomplutense.harvard.edu.

poetry/prose

Thu., May 14—“**Notable Books Series.**” (HMS, Countway Library) Thomas Maier, author, presents his book, “Masters of Sex: The Life and Times of William Masters and Virginia Johnson, the Couple Who Taught America How to Love.” Minot Room, Countway Library, 10 Shattuck St., 4:30 p.m. Booksigning to follow. A reception will be held afterwards in the Lahey Room. tracey_harik@hms.harvard.edu.

Mon., May 18—“**Poetry Reading.**” (Radcliffe Institute) Sarah Messer, fellow, Radcliffe Institute. Radcliffe Gymnasium, 10 Garden St., Radcliffe Yard, 3 p.m. www.radcliffe.edu.

Tue., May 19—“**Book Launch: Devi.**” (Radcliffe Institute, Committee on Human Rights Studies) Thrishantha Nanayakkara, fellow, Radcliffe Institute, reads from his new book and is interviewed by Sarah Messer, fellow, Radcliffe Institute. Radcliffe Gymnasium, 10 Garden St., Radcliffe Yard, 3 p.m. www.radcliffe.edu.

science

Thu., May 14—“**Peeling Back the Layers of Time: Reconstructing the Evolutionary History of Nature’s Biosynthetic Toolbox.**” (Molecular & Cellular Biology) Joe Noel, Howard Hughes Medical Institute. Room 102, Sherman Fairchild Building, 7 Divinity Ave., noon.

Sun., May 17—“**Family Program: Under New England: The Story of New England’s Rocks and Fossils.**” (HMNH) Charles Ferguson Barker, geologist and author. HMNH, 26 Oxford St., 2 p.m.-3 p.m. Free with price of admission. (617) 495-3045, hmnh@oeb.harvard.edu, www.hmnh.harvard.edu.

Thu., May 21—“**The Day We Found the Universe.**” (CfA) Marcia Bartusiak, MIT. Phillips Auditorium, 60 Garden St., 7:30 p.m. Observing through telescopes follows the presentation, weather permitting. Live Webcast: www.cfa.harvard.edu/events/public_events.html.

social sciences

Thu., May 14—“**Measuring Truth and Reconciliation? Lessons from Sierra Leone.**” (Belfer Center’s International Security Program) Brown bag seminar with Michal Ben-Josef Hirsch, research fellow, ISP, and Megan Mackenzie, research fellow, ISP/Women and Public Policy Program. Littauer 369, Belfer Center Library, HKS, 79 JFK St., 12:15 p.m. Coffee and tea provided. <http://belfercenter.ksg.harvard.edu/events/3980>.

Thu., May 14—“**The Road from Tiananmen Square: 20 Years Since June 4th.**” (Fairbank Center) William Alford, HLS; Merle Goldman, Fairbank Center; Roderick MacFarquhar, Fairbank Center; and Martin Whyte, Harvard University. Room S050, CGIS South, 1730 Cambridge St., 12:15 p.m.

Thu., May 14—“**The Soviet Hydrogen Bomb Controversy: A Discussion of ‘The Nuclear Express: A Political History of the Bomb and its Proliferation.’**” (Davis Center) Roundtable discussion with David Holloway, Stanford University; Richard Wilson, Harvard University; and Priscilla McMillan, Davis Center. Room K031, Knafel Building, 1737 Cambridge St., 12:15 p.m. www.daviscenter.fas.harvard.edu.

Thu., May 14—“**Ethical Issues in Global Health Research.**” (Harvard Initiative for Global Health) Richard Cash, HSPH. Third floor, 104 Mt. Auburn St., 4 p.m. global_health@harvard.edu.

Thu., May 14—“**Starting at Standing Rock: Following Custer and Sitting Bull to the Little Big Horn.**” (Peabody Museum) Nathaniel Philbrick, author. Geological Lecture Hall, 24 Oxford St., 5:30 p.m. Reception to follow in Peabody Museum, 11 Divinity Ave. Free and open to the public. (617) 496-1027, www.peabody.harvard.edu.

Mon., May 18—“**Moral Worlds and Religious Subjectivities: Perspectives From the Field of Comparative Religious Ethics.**” (CSWR) Lee H. Yearley, Stanford University. Sperry Room, Andover Hall, HDS, 45 Francis Ave., 4:30 p.m. Space is limited; reservations required. Register online at www.hds.harvard.edu/cswr/, or call (617) 495-4476. www.hds.harvard.edu/cswr/events/calendar.html.

Tue., May 19—“**Book Launch: Devi.**” (Radcliffe Institute, Committee on Human Rights Studies) Thrishantha Nanayakkara, fellow, Radcliffe Institute, reads from his new book and is interviewed by Sarah Messer, fellow, Radcliffe Institute. Radcliffe Gymnasium, 10 Garden St., Radcliffe Yard, 3 p.m. www.radcliffe.edu.

Wed., May 20—“**Beyond Reason: Using Emotions as You Negotiate.**” (Harvard Initiative for Global Health) Dan Shapiro, HMS. Third floor, 104 Mt. Auburn St., 4 p.m. global_health@harvard.edu.

Thu., May 21—“**Motivational Drivers of U.S. Policy in the Caspian Basin.**” (Belfer Center’s International Security Program) Brown bag seminar with Azeem Ibrahim, 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/3988>.

Thu., May 21—“**Technical and Cultural Innovation: Partnering as Agents for Global Health.**” (Harvard Initiative for Global Health) Doris Sommer, Harvard University, and Jose Trevejo, HMS. Third floor, 104 Mt. Auburn St., 4 p.m. global_health@harvard.edu.

Thu., May 21—“**Amica America: Spanish Exiled Professors in U.S. Universities.**” (Real Colegio Complutense) Carolina Rodríguez

López, UCM. 26 Trowbridge St., 7:30 p.m. Lecture in English. Free and open to the public. www.realcolegiocomplutense.harvard.edu.

Wed., May 27—“**Vagrancy and Poverty in Eastern Turkestan (17th-19th Centuries).**” (Committee on Inner Asian and Altaic Studies) Alexandre Papas, CNRS. Room S250, CGIS South, 1730 Cambridge St., 1 p.m. Free and open to the public. You may bring your own lunch; snacks will be provided. iaas@fas.harvard.edu.

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

classes etc.

Arnold Arboretum offers a series of classes for the general public. (617) 384-5209, arbweb@arnarb.harvard.edu, www.arboretum.harvard.edu.

■ **Volunteer opportunities:** Share your love of trees and nature — volunteer as a School Program Guide at the Arnold Arboretum. You will be trained to lead science programs in the Arboretum landscape with elementary school groups. (617) 384-5239, www.arboretum.harvard.edu/programs/fieldstudy_guides.html.

■ **“Signs of Spring” Free walking tours:** Tours began again April 11. 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.

■ **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. 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 event celebrating the connections between 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.

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

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

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

Environmental Health and Safety

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

Harvard Ballroom dance classes are offered by the Harvard Ballroom Dance Team throughout the year. Salsa, Swing, Waltz, Tango, Foxtrot, Rumba, and Cha Cha are just some of the dances you can learn. No partner or experience is necessary. For more information, including class descriptions and pricing, visit www.harvardballroom.org.

Harvard 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.

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.

Harvard Green Campus Initiative offers classes, lectures, and more. Visit 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 Jaine 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, <http://it.med.harvard.edu/training>.

■ Wed., May 20—**“Poster Making for Large Former Printers.”** 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>.

■ 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.

■ 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>.

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.

■ 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#summerprograms.

■ Volunteer opportunity

HMNH seeks volunteers who are enthusiastic about natural history and would enjoy sharing that excitement with adults and children. No special qualifications required. Training is provided. Just one morning or afternoon per week or weekend required. More info: volunteers@oeb.harvard.edu.

■ Ongoing programs

Discovery Stations in “Arthropods: Creatures that Rule” let you observe and learn about live animals, artifacts, and specimens, while **Gallery Guides** answer questions and help visitors learn about the natural world. Wednesday afternoons, Saturday, and Sunday. General museum admission.

Nature Storytime features readings of stories and poems for kids ages 6 and under. Saturdays and Sundays, 11 a.m. and 2 p.m.

■ Special events

Sat., May 16—**“Walking Tour of the Trees of Harvard.”** Walking tour by experts from the Harvard Herbaria. First floor lobby, HMNH, 26 Oxford St., 11 a.m. Rain date: Sun., May 17. Free to members; \$9 nonmembers. Reservations required. (617) 384-8309, hmnh-lectures@oeb.harvard.edu. Sun., May 17—**“Family Program: Under New England: The Story of New England's Rocks and Fossils.”** Charles Ferguson Barker, geologist and author. HMNH, 26 Oxford St., 2 p.m.-3 p.m. Free with price of admission. (617) 495-3045, hmnh@oeb.harvard.edu.

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

■ Sun., May 17—**“The Many Faces of Love: From Magic to the Divine.”** The MIT Women's Chorale (which has members from Harvard) sings the music of Brahms, Whitacre, Bach, Verdi, and others. 3 p.m. <http://web.mit.edu/womensleague/womenschorale>.

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. Early bird discount of \$150 for full payment by April 15. For more information on costs, scholarship assistance, and programming, visit www.hsph.harvard.edu/bioethics. (617) 432-3998, mclark@hsph.harvard.edu.

The Landscape Institute, 30 Chauncy St., 1st floor. (617) 495-8632, landscape@arnarb.harvard.edu, www.landscape.arboretum.harvard.edu.

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

June 1.

■ Thu., May 14—**“2009 Independent Project and Design IV Final Presentations.”** Talks by Andrea Gimbel, Edward MacLean, Jeff Nevulis, and others. Various rooms, Landscape Institute, 30 Chauncy St., 9:30 a.m.-4:50 p.m. For a complete listing of talk titles and speakers, visit www.landscape.arboretum.harvard.edu.

■ 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.

■ 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.

■ 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.

Mather House Chamber Music offers a fun, informal way to play music with other people. Coaching is available for string instruments, woodwinds, piano, harpsichord, Baroque ensembles, and singers. Ensembles are grouped according to the level of participants and availability of instruments. Sessions are scheduled at the mutual convenience of participants and coach. Everybody is invited to play in the concert at Mather, and there are various additional performance opportunities. Three special ensembles are offered: consorts of recorders, flutes, and viola da gamba. Fee: \$100 per semester. (617) 244-4974, lion@fas.harvard.edu, www.people.fas.harvard.edu/~lion/mather.

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

■ Thu., May 14-Sun., May 17—**“Spring Show & Sale.”** More than 60 potters and sculptors present a selection of handmade work ranging from masterpieces to treasured bargains. Special features include demonstrations and the display of place settings influenced by global cuisines and by issues of sustainability. 219 Western Ave., 10 a.m.-7 p.m. (Fri-Sun.). A reception will be held on Thu., May 14, 3-8 p.m. Free wine cups made by exhibitors will be available on a first-come, first-served basis. (617) 495-8680, 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 with questions. See also support/social listings. <http://harvie.harvard.edu/workandlife>.

Office of Work and Family (Longwood Area). All programs meet noon-1:30 p.m. unless otherwise noted. Various places. Feel free to bring a lunch. (617) 432-1615, barbara_wolf@hms.harvard.edu, www.hms.harvard.edu/hr/owf.html.

■ Thu., May 14—**“The Media's Impact on your Child's Body Image.”** Michelle George, family and life educator.

■ Fri., May 22—**“Doggy Dos and Don'ts: Why, How, and Where to Get a Dog — And What to do After You Get One.”** Amy Koel, psychologist and dog trainer.

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

Records Management Office, part of the Harvard University Archives, offers important workshops to help staff in charge of keeping the University's files in order. (617) 495-5961, rmo@hul-mail.harvard.edu, <http://hul.harvard.edu/rmo>.

computer

Harvard's **Computer Product & Repair Center** has walk-in hours Mon., Tue., Thu., and Fri., 9 a.m.-5 p.m.; Wed., 10 a.m.-5 p.m. Closed Sat. and Sun. Science Center B11. (617) 495-5450, www.computers.harvard.edu.

The Harvard College Library offers hands-on instruction in using the HOLLIS Portal Page (the Web gateway to over 1,300 electronic resources), the HOLLIS Catalog (for materials owned by Harvard libraries), and Advanced HOLLIS subject sections each semester. http://hcl.harvard.edu/widener/services/research/hollis_instruction.html.

special events

Thu., May 14-Sun., May 17—**“Spring Show & Sale.”** (OfA's Ceramics Program) More than 60 potters and sculptors present a selection of handmade work ranging from masterpieces to treasured bargains. Special features include demonstrations and the display of place settings influenced by global cuisines and by issues of sustainability. 219 Western Ave., 10 a.m.-7 p.m. (Fri-Sun.). A reception will be held on Thu., May 14, 3-8 p.m. Free wine cups made by exhibitors will be available on a first-come, first-served basis. (617) 495-8680, www.fas.harvard.edu/ceramics.

Sat., May 16—**“Walking Tour of the Trees of Harvard.”** (HMNH) Walking tour by experts from the Harvard Herbaria. First floor lobby, HMNH, 26 Oxford St., 11 a.m. Rain date: Sun., May 17. Free to members; \$9 nonmembers. Reservations required. (617) 384-8309, hmnh-lectures@oeb.harvard.edu.

Wed., May 27—**“2009 Senior Talent Show.”** (Harvard Alumni Association, Senior Class Committee) Talent show. Sanders Theatre, 8 p.m. Admission is free; Harvard ID only. Seating is limited; entrance is first-come, first-served.

Thu., May 28-Sun., May 31—**“4th Annual Birds & Bards Festival.”** (Arnold Arboretum) Weekend-long festival event celebrating the connections between 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.

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.

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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 17—The Rev. Dr. Dorothy A. Austin, the Memorial Church

May 24—The Rev. Peter J. Gomes, Plummer Professor Christian Morals and Pusey Minister in the Memorial Church

Morning Prayers

A service of Morning Prayers has been held daily at Harvard since its founding in 1636, and continues to be held in Appleton Chapel from 8:45-9 a.m., Mon.-Sat. A brief address is given by members and friends of the University, with music provided by the Choral Fellows of the Harvard University Choir. On Saturdays, the music is provided by soloists, small ensembles, or instrumentalists. This service, designed to enable students and faculty to attend 9 a.m. classes, is open to all.

Thu., May 14—Michael B. McElroy, Harvard University

Fri., May 15—Patrick Whelan, HMS Sat., May 16—Andrew C. Forsyth '09, the Memorial Church

Mon., May 18—Richard W.

Wrangham, Harvard University

Tue., May 19—John L. Ellison, Harvard University

Wed., May 20—The Rev. Jonathan C. Page, Epps Fellow in the Memorial Church

Thu., May 21—The Rev. Dr. Dorothy A. Austin, the Memorial Church

Fri., May 22—The Rev. Peter J.

Gomes, Plummer Professor of Christian Morals and Pusey Minister in the Memorial Church

Compline

The ancient service of Compline is held one Thursday a month during term. Based upon the traditional evening liturgy of scripture, music, prayers, and silence, this twenty-minute service is sung in the candlelit space of Appleton Chapel by members of the Harvard University Choir. All are welcome.

Church School

Offering Christian education classes for children ages one through 12. Classes are held in the Buttrick Room from 10:50 a.m. to 12:15 p.m., during Sunday services. All children are welcome. tguthrie@hds.harvard.edu.

Faith & Life Forum

Issues of faith in devotional and public life explored. Meetings take place Sundays at 9 a.m. with continental breakfast and conversation, followed by a speaker and program from 9:30-10:30 a.m. daustin@fas.harvard.edu.

Harvard University Choir

Music in The Memorial Church is provided by the Harvard University Choir, whose members are undergraduate and graduate students in the University. Weekly rehearsals are held from 5 p.m. to 6:30 p.m. on Tuesdays and Thursdays.

Sunday Night Student Service

All undergraduate and graduate students are welcome to attend a worship service every Sunday night at 9 p.m. in Appleton Chapel with the Rev. Jonathan C. Page. The service lasts 45 minutes and includes weekly Eucharist, singing, and student participation. Students are encouraged to come dressed as they are and are invited to remain for food and fellowship. E-mail jonathan_page@harvard.edu for details.

Wednesday Tea

On Wednesdays during term, Professor Gomes welcomes undergraduates, graduate students, and visiting scholars to afternoon tea from 5-6 p.m. at his residence, Sparks House, 21 Kirkland St., across from Memorial Hall.

Young Women's Group

Seeks to serve all young college women of Harvard with faith journeys, theological inquiries, and the happenings within our lives. Meetings take place Mondays at 9 p.m. in the Buttrick Room, Memorial Church. tguthrie@hds.harvard.edu.

Undergraduate Fellowship

An opportunity for students to meet, enjoy food, and discuss faith. Meetings take place Wednesdays at 9:30 p.m. in the Buttrick Room, Memorial Church. E-mail jonathan_page@harvard.edu for details.

Graduate Fellowship

A new fellowship group for graduate students with discussions, food, contemplative worship, and more. Meetings take place Thursdays at 7 p.m. in the Buttrick Room, Memorial Church. E-mail Robert_mark@harvard.edu.

Berkland Baptist Church

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

■ Sunday School: Sun., 12:15 p.m.

■ Worship Service: Sun., 1 p.m.

Berkland Baptist Church is a community of faith, primarily comprised of young Asian American students and professionals.

Cambridge Forum

The First Parish in Cambridge, Unitarian Universalist, 3 Church St., (617) 495-2727, www.cambridgeforum.org.

Christian Science Organization meets in the Phillips Brooks House every Tue. at 7 p.m. for religious readings and testimonies. (617) 876-7843.

The Church at the Gate

Sunday services: 4 p.m.
www.thechurchatthegate.com
The Church at the Gate will see people of all nations transformed by faith in Jesus Christ as we love and serve God and people in the strategic context of the city and the university.

The Church of Jesus Christ of Latter-day Saints

2 Longfellow Park (located at about 100 Brattle St.)
Sunday Worship Services: 9:30 a.m., 11:30 a.m., 2 p.m., 3:50 p.m.
All are welcome. The congregations that meet at these times are composed of young, single students and professionals. For information on family congregation meeting places and times, or for information on other classes and events, e-mail 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, jvonnwald@hds.harvard.edu

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

Dzogchen Center Cambridge meets every Monday evening at 7:30 p.m. for Tibetan Buddhist Dzogchen practice at Cambridge Friends Meeting House, Longfellow Park, off Brattle St. (718) 665-6325, www.dzogchen.org/cambridge.

Episcopal Divinity School

“Introductory Meditation Classes: Finding Peace in a Busy World.”

Introduction to basic Buddhist philosophy and meditation. Each class includes a brief talk, guided meditation, and time for questions. Taught by Gen Kelsang Choma, American Kadampa Buddhist nun, resident teacher of Serlingpa Meditation Center. Burnham Chapel, Episcopal Divinity School, 99 Brattle St., 10:30 a.m.-noon. \$10 suggested donation. epc@serlingpa.org, www.MeditationinBoston.org.

First Baptist Church in Newton

848 Beacon St.
Newton Centre, MA 02459
(617) 244-2997
www.fbcnewton.org
Sunday worship at 10:30 a.m.; Sunday School at 9:30 a.m.
Corner of Beacon and Centre streets, accessible via MBTA's D Line, two blocks from the Newton Centre stop.

First 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.firstchurch-somerville.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 ballroom 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 1250 Mass. Ave., next to the cab stand). Senior pastor, Dave Schmelzer. (617) 252-0005, www.cambridgevineyard.org.

WomenChurch, an imaginative community for women, meets the first Thursday of each month (during the fall and spring terms only) at 7 p.m. in Andover Chapel at HDS on Francis Ave. All women are welcome. E-mail mfunness@hds.harvard.edu for information.

United Ministry

The following churches and organizations are affiliated with the United Ministry and offer worship and social services. Call for details.

Anglican/Episcopal Chaplaincy at Harvard

2 Garden St. (617) 495-4340
episcopal_chaplaincy@harvard.edu
Eucharist Sundays at 5 p.m. at the Christ Church Chapel (behind the church at Zero Garden St.), followed by fellowship supper at 6 p.m. in the Chaplaincy Common Room. Episcopal Students at Harvard: www.hcs.harvard.edu/~esh/ for an updated list of student activities and events. A ministry of the Episcopal Diocese of Massachusetts and the worldwide Anglican Communion.

Christ the King Presbyterian Church

99 Prospect St.
Cambridge, Mass.
Sundays: Services in English at 10:30 a.m. and in Brazilian Portuguese at 6 p.m.
(617) 354-8341, office@ctkcambridge.org, www.ctkcambridge.org

Harvard Bahá'í Student Association

bahai@hcs.harvard.edu
All events are open to the public. Please write to bahai@hcs.harvard.edu for more information, or subscribe to our announcement list at http://lists.hcs.harvard.edu/mailman/istinfo/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.

■ **Special Events** Fri., May 15—"The Mount Auburn String Quartet." The Mount Auburn String Quartet performs works by Haydn, Peyton, Puccini, and Beethoven. Swedenborg Chapel, 50 Quincy St., 8 p.m. Tickets are \$15 general; \$8 students/senior citizens. Free for anyone wearing red sneakers. www.composersinredshoes.org.

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 working about three hours per week working with high school juniors and seniors in West Roxbury. Interested students should call (917) 257-6876 or e-mail asamuels@law.harvard.edu.

Harvard's EAP (Employee Assistance Program) provides free, confidential assessment and referral services and short-term counseling to help you work through life's challenges. Harvard faculty, staff, retirees, and their household members can access the following services throughout the U.S. and Canada 24 hours a day, 7 days a week: confidential assessment, information, referral; consultation to supervisors around employee well-being, behavior, or performance; individual and group support around a workplace crisis, serious illness, or death; and on-site seminars. In addition, Harvard's EAP can help with workplace conflicts, personal and family relationships, eldercare planning, legal consultations, financial counseling and planning, sexual harassment, workplace and domestic violence, alcohol and drug use, and more. To schedule an appointment near your office or home, call the EAP's toll-free number at **1-EAP-HARV (1-877-327-4278)**. Counselors are available to answer your calls from 8:30 a.m. to 7 p.m. Monday through Thursday, and from 8:30 a.m. to 5 p.m. on Friday; urgent calls will be answered by crisis clinicians round the clock. You may also visit www.wellnessworklife.com for further information and access to other resources available to you as a Harvard employee (there is a one-time confidential registration process; please visit www.harvie.harvard.edu for login instructions).

Harvard Lesbian/Bisexual/Transgender/Queer Women's Lunch is a chance for lesbian/bi/trans/queer women staff and faculty at Harvard to meet informally for lunch and conversation. Meetings take place 12:30-1:30 p.m. in the graduate student lounge on the 2nd floor of Dudley House. You can bring lunch or buy at Dudley House. E-mail jean_gauthier@harvard.edu, dmorley@fas.harvard.edu, or linda_schneider@harvard.edu for more information.

Harvard Lesbian, Gay, Bisexual & Transgender Faculty & Staff Group. (617) 495-8476, ochs@fas.harvard.edu, www.hgic.org/resources/faculty-staff.html.

Harvard Student Resources, a division of Harvard Student Agencies, employs a work force of more than 300 students to provide temporary clerical work, housecleaning, tutoring,

research, moving, and other help at reasonable rates. **HSA Cleaners**, the student-run dry cleaning division of Harvard Student Agencies, offers 15 percent off cleaning and alterations for Harvard employees. (617) 495-3033, www.hsa.net.

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 infor-

mal 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.

studies

Studies are listed as space permits.
Acne Study: Researchers seek people 12 years or older with facial acne to determine the safety and effectiveness of an investigational drug for acne. The study consists of 5 visits over 12 weeks and subjects will receive up to \$200 in compensation for time and travel. Study visits are required approximately every 2 to 4 weeks. To participate, the subject must stop all other treatments for acne except emollients approved by the study doctor. (617) 726-5066, harvardskinsudies@partners.org.

Atypical Antipsychotics Study: Researchers seek pregnant women between the ages of 18 and 45 that are currently treated with one or more of the following atypical antipsychotics: Abilify, Clozaril, Geodon, Invega, Risperdal, Seroquel, Zyprexa. The study will involve three brief phone interviews over an 8-month period. (866) 961-2388.

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

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

Brain Imaging Study: Visual Processing and Reading Ability: Researchers seek people ages 17-45 with dyslexia. Study takes 2 hours. The first part involves completing a series of problem-solving activities, including a brief measure of word reading. The second part will involve viewing visual patterns (checkerboards) on a computer screen while brain activity is measured; non-invasive electrodes will be used to record brain activity. Compensation is a \$50 Amazon gift certificate. To participate, documentation describing dyslexia should be submitted, or consult the researcher. larsen303@yahoo.com.

Diabetic Foot Pain Study: Researchers seek participants with diabetic foot pain to evaluate an investigational medication for treating diabetes-caused pain. Participants will have nine outpatient hospital visits over 17 weeks. All study-related costs at no charge; compensation will be provided. (617) 525-PAIN (7246), PainTrials@partners.org.

First Impressions of Faces Study: Researchers seek men and women ages 18 and older with 20/20 correct-

ed vision and ability to read English to participate in an hour and a half long non-invasive study of first impressions. Participants will be shown photographs of women's faces on a computer screen and will be asked to record their perceptions of them, and then fill out a brief questionnaire. Compensation is \$20. (617) 726-5135, blinkstud-ies@gmail.com.

Hearing Study: Researchers seek healthy men and women ages 30 to 65 for a non-invasive hearing study. Participation involves approximately nine hours of hearing tests. Compensation provided. (617) 573-5585, hearing@meei.harvard.edu.

Hispanic and African-American Participants for First Impressions of Faces Study: Researchers seek men and women ages 18 and older who identify themselves as African/African-American, or Hispanic with 20/20 corrected vision and ability to read English to participate in an hour-and-a-half long non-invasive study of first impressions. Participants will be shown photographs of women's faces on a computer screen and will be asked to record their perceptions of them, and then fill out a brief questionnaire. Compensation is \$20. (617) 726-5135, blinkstudies@gmail.com.

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

Nerve Pain Study: Researchers seek individuals ages 18-65 who have been diagnosed with a nerve pain condition for at least 3 months to evaluate the effectiveness of an FDA-approved sleep medication on nerve pain. The study consists of four visits, eight phone interviews, keeping sleep and pain diaries, completing questionnaires, a urine and blood test, physical exam, and taking study medication. Compensation provided. (617) 724-6102, toll-free at 1-888-No-2-Ouch, cmalarick@partners.org, www.massgeneral.org/painresearch.

OMNI-Carb Study: Researches seek individuals 30 years or older to participate in a study on the ways blood pressure, cholesterol, and glucose are affected by what we eat. Persons must be willing to come to clinic Mon.-Fri. for one meal, must not currently take blood pressure or cholesterol medications, or have diabetes. Compensation is provided. (617) 525-6737, www.omnicarb.org.

PMS Study: Researchers seek women between the ages of 18 and 45 who suffer with PMS and are currently being treated with an antidepressant for a research study evaluating how a birth control helps with premenstrual mood symptoms. Participants will receive study medication and evaluations of their mood at no cost, and will be compensated up to \$350. (617) 724-6540, afarrell2@partners.org.

Psychology Study: Researchers seek participants for a two-part study on communication and physiology. Participation involves an online survey and a two-hour laboratory session. Compensation at least \$30 for 2.5 hours. (617) 496-8159, commphysiology@gmail.com.

Psychology Studies: Researchers seek students and members of the community to participate in studies. Studies could involve filling out questionnaires, viewing videos, or making judgments on a computer. Compensation, usually \$10/hour, for participation. Visit <http://studypool.wjh.harvard.edu> for eligibility details and a list of available studies. All studies posted to this site are approved by the Committee on the Use of Human Subjects. (617) 495-3891, studypool@wjh.harvard.edu.

Opportunities



Job listings posted as of May 14, 2009

Harvard is not a single place, but a large and varied community. It is comprised of many different schools, departments and offices, each with its own mission, character and environment. Harvard is also an employer of varied locations.

Harvard is strongly committed to its policy of equal opportunity and affirmative action. Employment and advancement are based on merit and ability without regard to race, color, creed, sex, sexual orientation, disability, national origin or status as a disabled or Vietnam-era veteran.

How to Apply:

To apply for an advertised position and/or for more information on these and other listings, please visit our Web site at <http://www.employment.harvard.edu> to upload your resume and cover letter.

Explanation of Job Grades:

Most positions at Harvard are assigned to a job grade (listed below with each posting) based on a number of factors including the position's duties and responsibilities as well as required skills and knowledge.

The salary ranges for each job grade are available at <http://www.employment.harvard.edu>. Target hiring rates will fall within these ranges. These salary ranges are for full-time positions and are adjusted for part-time positions. Services & Trades positions are not assigned grade levels. The relevant union contract determines salary levels for these positions.

Other Opportunities:

All non-faculty job openings currently available at the University are listed on the Web at <http://www.employment.harvard.edu>.

harvard.edu. There are also job postings available for viewing in the Longwood Medical area, 25 Shattuck St., Gordon Hall Building. For more information, please call 432-2035.

This is only a partial listing. For a complete listing of jobs, go to <http://www.employment.harvard.edu>.

In addition, Spherion Services, Inc., provides temporary secretarial and clerical staffing services to the University. If you are interested in temporary work at Harvard (full- or part-time), call Spherion at (617) 495-1500 or (617) 432-6200

(Longwood area).

Additional Career Support:

A Web page on career issues, including links to career assessment, exploration, resources, and job listings, is available for staff at <http://www.harvie.harvard.edu/learning/careerdevelopment/index.shtml>

Job Search Info Sessions:

Harvard University offers a series of information sessions on various job search topics such as interviewing, how to target the right positions, and navigating the Harvard hiring process. All are

welcome to attend. The sessions are typically held on the first Wednesday of each month from 5:30 to 7:00 at the Harvard Events and Information Center in Holyoke Center at 1350 Massachusetts Avenue in Harvard Square. More information is available online at <http://employment.harvard.edu/careers/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 Associate Req. 36268, Gr. 000
Harvard School of Public Health/Immunology and Infectious Diseases
FT (3/5/2009)

Research Fellow Req. 36269, Gr. 000
Harvard School of Public Health/Epidemiology
FT (3/5/2009)

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)
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 Men's Swimming Req. 36453, Gr. 055
Faculty of Arts and Sciences/Athletics
PT (4/9/2009)
First Assistant Coach of Men's Ice Hockey Req. 36625, Gr. 056
Faculty of Arts and Sciences/Athletics
FT (5/14/2009)

Communications

Research Administrator/Science Editor Req. 36291, Gr. 056
Faculty of Arts and Sciences/Molecular & Cellular Biology
FT (3/5/2009)

Facilities

Area Manager in the Houses Req. 36376, Gr. 057
Faculty of Arts and Sciences/FAS Physical Resources & Planning
FT (3/26/2009)
Crew Chief A Req. 36578, Gr. 007
Harvard Medical School/Custodial Services
Union: SEIU Local 615 Custodial Group, FT (5/7/2009)
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 Dean of Students and Alumni Affairs for the Division of Continuing Education Req. 36529, Gr. 058
Division of Continuing Education/Dean of Students
FT (4/23/2009)
Assistant Director for JD Advising Req. 36579, Gr. 057
Harvard Law School/Office of Career Services
FT (5/7/2009)

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)
Senior Manager of Financial Reporting and Compliance Req. 36621, Gr. 059
Financial Administration/Financial Accounting and Reporting
FT, SIC, (5/7/2009)
Assistant Director of Sponsored Programs Req. 36424, Gr. 058
Harvard School of Public Health/Sponsored Programs Administration
FT (4/2/2009)
Senior Grants and Contract Specialist (FAS Physical & Social Sciences Team) Req. 36510, Gr. 058
Financial Administration/Office of Sponsored Programs
FT (4/16/2009)
Financial Aid Officer Req. 36600, Gr. 056
Division of Continuing Education/Financial Services
FT (5/7/2009)
Grants and Contracts Specialist Req. 36339, Gr. 056
School of Engineering & Applied Sciences/School of Engineering and Applied Sciences
FT (3/19/2009)

General Administration
Regulatory Affairs Officer Req. 36571, Gr. 056
Harvard Medical School/CTSC
FT (4/30/2009)
Program Manager Req. 36293, Gr. 056
University Administration/Harvard Initiative for Global Health
FT (3/5/2009)
Director of Administration Req. 36478, Gr. 059
Harvard School of Public Health/Global Health and Population
FT (4/16/2009)
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)
Director of Center for Wellness & Health Communications Req. 36583, Gr. 057
University Health Services/Behavioral Health and Academic Counseling
FT, SIC, (5/7/2009)
Senior Administrator of Physician Training Req. 36504, Gr. 059
Harvard Medical School/CTSC
FT (4/16/2009)
Assistant Provost for Research Policy Req. 36514, Gr. 060
University Administration/Office for Research and Compliance
FT (4/23/2009)
Events Coordinator Req. 36597, Gr. 056
School of Engineering & Applied Sciences/Wyss Institute
FT (5/7/2009)
Administrative Director Req. 36273, Gr. 059
Harvard School of Public Health/Dean's Office Special Project II: PEPFAR

FT (3/5/2009)
Associate Research Director for Financial Design Req. 36320, Gr. 058
Faculty of Arts and Sciences/ideas42
FT (3/12/2009)
Administrator Req. 36574, Gr. 056
School of Engineering & Applied Sciences/Wyss Institute
FT (4/30/2009)
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: HUCTW, FT (5/14/2009)
Assistant Director, Surveys & Analysis Req. 36392, Gr. 057
Graduate School of Education/COACHE
FT (3/26/2009)

Health Care

Nurse Practitioner Req. 36280, Gr. 058
University Health Services/Stillman/After Hours Urgent Care
PT (3/5/2009)
Occupational Health and Safety Nurse Req. 36524, Gr. 057
Harvard Medical School/NEPRC
FT (4/23/2009)

Human Resources

Senior Human Resource Consultant Req. 36595, Gr. 058
Harvard College Library/Harvard College Library Human Resource Services
FT (5/7/2009)

Information Technology

SAS Programmer (II) Req. 36497, Gr. 056
Harvard School of Public Health/Center for Biostatistics in AIDS Research
FT (4/16/2009)
Director of Information Systems for Harvard College Financial Aid 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)
Program Manager, Project Management Office Req. 36561, Gr. 059
Harvard Business School/InformationTechnology Group
FT (4/30/2009)
Technical Support Analyst Req. 36523, Gr. 056
Harvard Law School/Information Technology Services
FT (4/23/2009)
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

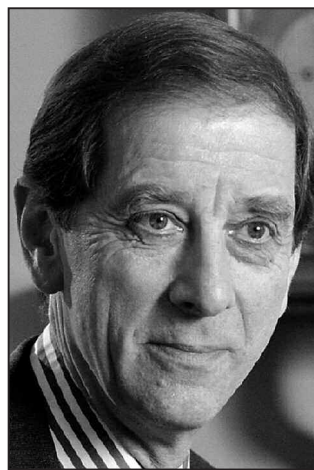
Research Analyst Req. 36309, Gr. 056
Harvard School of Public Health/Center for Biostatistics in AIDS Research
FT (3/12/2009)
Research Manager Req. 36627, Gr. 057
JFK School of Government/Center for International Development
FT (5/14/2009)
Clinical Project Director Req. 36357, Gr. 057
Harvard Medical School/Psychiatry
FT (3/19/2009)
Bioinformatics Data Manager Req. 36612, Gr. 056
Harvard School of Public Health/Biostatistics
FT (5/7/2009)
Director, Collaborative Mouse Behavior Core Req. 36618, Gr. 060
Harvard Medical School/Harvard NeuroDiscovery Center
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)
Research Analyst Req. 36310, Gr. 056
Harvard School of Public Health/Center for Biostatistics in AIDS Research
FT (3/12/2009)
Research Associate Req. 36608, Gr. 056
Harvard Business School/Division of Research and Faculty Development
FT (5/7/2009)
Scientific Programmer Req. 36334, Gr. 057
Harvard School of Public Health/Epidemiology
FT (3/19/2009)
Research Assistant (II) - Non Lab Req. 36440, Gr. 053
Harvard School of Public Health/Nutrition
Union: HUCTW, FT (4/9/2009)
Staff Scientist - Bioinspired Robotics Req. 36495, Gr. 058
School of Engineering & Applied Sciences/Wyss Institute
FT (4/16/2009)
Head of Magnetic Resonance Physics Req. 36553, Gr. 060
Faculty of Arts and Sciences/Center for Brain Science
FT (4/30/2009)
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)

Technical

Manager of X-Ray Crystallography Req. 36323, Gr. 059
Faculty of Arts and Sciences/Chemistry & Chemical Biology
FT (3/12/2009)
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 Arts and Sciences — Memorial Minute

Deans and leaders like Jeremy come only rarely. He had a penetrating mind. He had wit and charm and taste. Above all, he understood the nature of a university and what it meant to search for knowledge, or discover even a single truth.



Jeremy Randall Knowles

At a Meeting of the Faculty of Arts and Sciences May 5, 2009, the following Minute was placed upon the records.

Jeremy Knowles, former Dean of the Harvard Faculty of Arts and Sciences, a long-time professor of chemistry and biochemistry, and a world leader in the study of catalysis by enzymes, died of cancer at his home in Cambridge, on April 3, 2008, at the age of 72. He was deeply respected and admired by colleagues at Harvard and around the world.

Jeremy Randall Knowles was born in Rugby (UK) on April 28, 1935, and received his secondary education at Magdalen College School in Oxford just after World War II. After serving in the Royal Air Force as a Pilot Officer from 1953 to 1955, he attended Balliol College, Oxford, graduating with First Class Honors in 1959 and then continued at Oxford to the Ph.D. degree in physical organic chemistry in 1961. After postdoctoral work at the California Institute of Technology, Jeremy returned to Oxford and held various posts before becoming University Lecturer (1966–1974). He held visiting professorships at Yale (1969 and 1971) and at Harvard (1973) before joining the Harvard Faculty as Professor of Chemistry in 1974. Five years later, he was named Amory Houghton Professor of Chemistry and Biochemistry.

During his early independent career at Oxford, Jeremy's research interests turned from traditional organic chemistry to the understanding of protein catalysis at the atomic level of detail using the principles and methods of physical organic chemistry. He quickly became an international leader in this new and fast-moving field, one being propelled by an explosion of knowledge and the first glimpses into the three-dimensional structure of proteins as a result of the combined power of computers and X-ray crystallographic analysis. Jeremy's interests went beyond structure for, as he remarked in 1966, "Taking a photograph of a horse does not necessarily tell you how fast it can run." His move from Oxford, where his father served on the faculty, to Harvard, was astonishing to some, but perhaps not to those who knew him best. His description of the move to Harvard revealed an eagerness to discover and take on weighty challenges that would surprise few who knew him.

Why am I going? Having been in Oxford for so long, I was very happily settled, both departmentally and socially, and Oxford is a splendid place to live. But the challenge of a new and exciting environment in the end became dominant. Am I going to stay? The mark of a very good department (also of a very bad one) is when its turnover among staff is

very small. I think it's true that, despite alluring offers from elsewhere, nobody in the history of Harvard's Chemistry Department has ever left, except for one man—Conant—who left to become President of Harvard!

As fate would have it, Jeremy would later follow the path of Conant to high administrative office, in Jeremy's case as Dean of Harvard's Faculty of Arts and Sciences (1991–2002 and 2006–2007).

Once at Harvard, Jeremy's research program thrived and grew to encompass a wide range of subjects from the chemical end of the spectrum—including entirely new general methods for probing fundamental chemical reaction pathways—to the understanding of enzyme catalysis in biochemistry, and to distinctly biological topics. For instance, in the last area he provided the first direct evidence for the importance of the hypervariable regions of the immune system's antibodies.

In the early 1970s, Knowles's work led to the first complete description of the energetics of an enzyme-catalyzed reaction using extraordinarily subtle and elegant analyses and experiments. This research attracted great attention since it showed that the enzyme had reached the limit of catalytic efficiency in the sense that further lowering of the energy barriers of the chemical steps could not result in faster rates of conversion of biochemical substrate to reaction product. The precision and rigor of thinking behind these advances is quite remarkable even from the vantage of the present, three decades later. Jeremy's scientific work reflects the qualities so apparent to those who knew him: a powerful and deep intellect, a relentlessly logical and thorough style of research, and great care in selecting and executing projects.

In the classroom, Jeremy was no less effective. His courses and lectures became very popular with science students at both undergraduate and graduate levels. They have been described as exacting and challenging, but clear, engaging, and witty. Jeremy's research students were devoted and highly motivated. Many graduates from his laboratory have gone on to positions of leadership in academia and in the pharmaceutical and biotechnology sectors. Jeremy's influence and wisdom were of great value in his departmental home, Chemistry, which he chaired from 1980 to 1983, and in his other Harvard affiliation, the Department of Biochemistry and Molecular Biology. He was an extraordinarily well organized, efficient, eloquent, and perceptive administrator, a consensus builder, and a sympathetic colleague.

Jeremy's professional contributions were recognized by many honors and awards including the Charmian Medal, the Bader Award, the Repligen Award, the Prelog Medal,

the Robert A. Welch Award in Chemistry, and the Nakanishi Prize. He was awarded the Davy Medal of the Royal Society and was an honorary fellow of Balliol College and of Wadham College, Oxford. He received honorary degrees from the University of Edinburgh and the Eidgenössische Technische Hochschule in Zürich, and he was appointed Commander of the Order of the British Empire in the Queen's Birthday Honours of 1993. For nearly a decade he was a Trustee of the Howard Hughes Medical Institute, where he was deeply engaged in both the Institute's scientific and educational activities.

In 1991 Jeremy assumed office as Dean of Harvard's Faculty of Arts and Sciences. Jeremy's acceptance of this post, in several respects more than a full-time occupation, came as a surprise to many of his friends because he was so devoted to teaching and research. To others, it seemed a very logical move given Jeremy's multiplicity of skills, his personal warmth and, above all, his devotion to Harvard.

He took up what he later called a "wet-weather deanship," marked by significant academic challenges and substantial financial deficits. Although the early Knowles era was one of comparative frugality, academic challenges were met and the deficit was retired. Renovation of the eleven freshman dorms and the gathering of seventeen humanities departments into Barker and Boylston were only the beginning of a great run of physical improvements over his eleven years as dean. His deep concern for undergraduate education was manifest in the creation of the Educational Policy Committee in 1992, an early analytic report on the College administration and subsequent reforms, a review of the Core, and toward the end of his deanship, a reinvigoration of the Freshman Seminar Program. He later taught in the program he had revived: first a course on right-left asymmetries in science and then one on implications of the global use of antibiotics.

By the late 1990s, money worries had eased with successful fund raising and gains in the financial markets. New faculty appointments were made. Science was strengthened by the creation of centers for genomics, nanoscale systems, systems biology, and brain science. The last of the buildings he planned were for the sciences, and he lived to see the Naito Laboratory, Bauer Genomics Center, the Northwest Science Building, and the Laboratory for Integrated Science and Engineering rise along Oxford Street. The Center for Government and International Studies brought together the Government department with international research centers. Jeremy often said that he wished he had accomplished more for the graduate students and more for science sooner. Nonetheless, he was, not the least by the testimony of Harvard presidents past and present, a very good dean, and perhaps one of the

truly great ones.

One of the undersigned (Neil L. Rudenstine) characterized Jeremy's tenure as dean:

Deans and leaders like Jeremy come only rarely. He had a penetrating mind. He had wit and charm and taste. Above all, he understood the nature of a university and what it meant to search for knowledge, or discover even a single truth. The standard could never be too high. Many other things mattered, of course. But if learning, teaching, and research were not the heart of the matter, why were we here? Once he had decided to leave his lab and serve the University in more than chemistry, nothing less than all his energy and stamina would do. He was no less a friend. If there was a need for more than mere intelligence or skill, he was there, with his strength and his commitment.

Harvard's President Drew Faust wrote:

Jeremy was my friend and mentor. He set the standard for selfless service, inspiring us with his dedication even as he delighted us with his wit and intelligence. The purpose of deans, he once remarked, is making things right, and he gave himself fully to that effort. We are profoundly in his debt.

Jeremy was called back to be dean again, in 2006. Living with illness, he nevertheless carried off his last year as dean with characteristic focus and grace. Former President Derek Bok, who with Rudenstine and Faust called Jeremy a friend, said:

His final year of service as a dean must surely rank as one of the most selfless acts of loyalty in Harvard's history. Under very trying circumstances, he succeeded in restoring a badly needed sense of momentum and progress at a critical time for his Faculty. We all owe him an enormous debt.

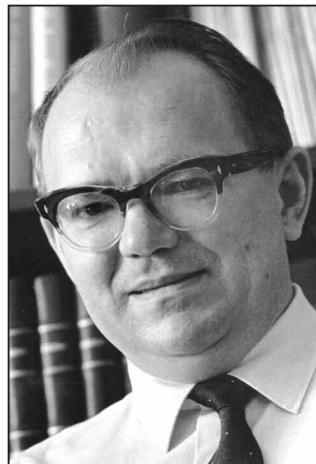
Jeremy Knowles had an extraordinarily large circle of friends and admirers at Harvard, worldwide in the sciences, and beyond, and at many educational, corporate, and philanthropic institutions. He is survived by his wife Jane, a gifted person and wonderful friend to so many at Harvard; three sons, Sebastian, Julius and Timothy; and seven grandchildren.

Respectfully submitted,

Andrew G. Myers
Neil L. Rudenstine
Michael D. Smith
E. J. Corey, Chair

Faculty of Arts and Sciences — Memorial Minute

Omeljan Pritsak was a man of seemingly inexhaustible energy, broad erudition, and total dedication to scholarship in a broad range of fields. ... His prodigious range and productivity is only partially captured by the published bibliographies of his works.



Omeljan Pritsak

At a Meeting of the Faculty of Arts and Sciences May 5, 2009, the following Minute was placed upon the records.

Omeljan Pritsak was a man of seemingly inexhaustible energy, broad erudition, and total dedication to scholarship in a broad range of fields. While he will probably be best remembered at Harvard and in the Ukrainian diaspora community as the co-founder and long-time director of Harvard's Ukrainian Research Institute, his energy, erudition, and scholarship also found expression in a prodigious output of scholarly work and in institution-building in several countries and many scholarly fields. He was founder, editor, or an early stalwart of a number of periodical and monographic series—first in Germany, then in this country, and, ultimately, in his native Ukraine. His prodigious range and productivity is only partially captured by the published bibliographies of his works.

Pritsak was born on 7 April 1919 in Luka, in the Sambir region of Ukraine, and completed his secondary education at the Polish "First Gymnasium" of Ternopil', where for some years he was the only Ukrainian student. His higher education, with a concentration in Ukrainian and, increasingly over time, Turkic history and philology, took place at the University of L'viv, at the Academy of Sciences of Ukraine in Kyiv, and, after World War II (during which he became first a Red Army soldier, then a prisoner of war, then an Ost-Arbeiter), at the Universities of Berlin and Göttingen, the latter of which awarded him a doctorate in 1948.

Pritsak was invited to visit Harvard University for the academic year 1960–61 and returned to Harvard as Professor of Linguistics and Turcology in 1964. He retired in 1989.

By the time of his arrival in Cambridge, Pritsak had already become an internationally recognized specialist in historical and comparative Turkic and Altaic linguistics and a leading authority on the history and cultures of the Eurasian steppe. He was the first scholar to solve problems of succession in Turkic tribal royalty, especially in the first Turkic Islamic dynasty of the Karakhanids. At Harvard, he turned increasingly to the analysis of the Ukrainian past in its larger context, drawing on his training in the relevant oriental languages to flesh out that history with material previously underrepresented or unknown.

In 1967 Pritsak proposed the creation of a firm foundation for the development of Ukrainian studies at Harvard through the establishment of three endowed chairs (history, literature, and philology) and a research institute. This project was accomplished thanks to the efforts of the Ukrainian Studies Fund, which raised the necessary funds within the North-American Ukrainian diaspora community. The Ukrainian Research Institute was founded in 1973 and Pritsak became its first director. In 1975 he was named to the new Hrushevs'kyi Chair in Ukrainian history.

In most of his work, Pritsak was very much a structuralist. Therein lay the basis of his close collaboration with Roman Jakobson (1896–1982), especially in the *International Journal of Slavic Linguistics and Poetics* (The Hague: Mouton), which Jakobson edited in the mid-1960s. Pritsak also took a very pronounced structuralist view of genealogy and chronology—although his interest in these fields may have originated with some adolescent discoveries about his own birth and parentage.

He could overreach himself, as specialist reviewers of his *The Origins of Rus'* (Harvard 1981) have been quick to point out. He was impatient with critics, spending very little energy in engaging with their views. He insisted that the cultural history of the East Slavs (and for him political institutions were a part of cultural history) must be viewed in the broadest Eurasian terms, taking fully into account the experiences of Scandinavian, Turkic, Baltic, and other Slavic peoples and sources in their languages.

The great majority of those who challenge Pritsak's conclusions on the origins of Rus' themselves view history in primarily "national" categories, but—despite his dedication to Ukrainian history—he explicitly did not. It is true, however, that when asked by one of those signed below why his projected book on the Origins of Rus' would be in six volumes, he is said to have replied, "Because Ochmanski's 'Origins of Poland' is in three."

In one of his last general articles on the subject, he was particularly direct: "The history of Ukraine is not the history of the Ukrainian ethnic mass (ethnicity is not a historical subject) but the objective view, measured in linear time, of all types of states and communities which existed on the present territory of Ukraine in the past."

Nor was he a "Normanist," as is sometimes alleged. While his inaugural lecture in the Hrushevs'kyi Chair began with the story of the uproar caused by Gerhard Friedrich Müller's 1749 lecture, "Origines gentis et nominis Russorum," and his later work stressed the role of Scandinavians (among others) in the founding of "Kyivan Rus'," he steadfastly insisted that the entity that emerged in the eighth and ninth centuries was multi-ethnic and multicultural at its core.

After retirement, Pritsak became more involved in the post-Soviet struggle for the revival of academic historical studies in Ukraine, spending increasing amounts of his time there (despite a serious cardiac condition that had led to surgery as early as 1977). He became the first elected foreign member of the Ukrainian Academy of Sciences, and revived the Institute of Oriental Studies in Kyiv, introducing new university-level programs in that field and many other neglected areas of historical scholarship. Sadly, however, even a man of his astuteness and dynamism was unable to escape the tangled webs of post-Soviet academic politics and intrigue: these years were filled with disappointments.

By that time, however, Pritsak's major work had been accomplished. It has transformed our understanding of East Slavic history. Never again will any serious historian of the region be able to treat the history of this space as anything but the history of—in his words—a "multiethnic and multilingual" society.

Omeljan Pritsak is survived by his wife Larysa Hvozdk Pritsak; by his daughter, Irene Pritsak (by his late first wife, Nina née Nikolaevna Moldenhauer); and by two grandchildren, Lailina Eberhard and Michael Wissoff.

Respectfully submitted,

Michael S. Flier
Richard N. Frye
George G. Grabowicz
Roman Szporluk
Edward L. Keenan, Chair

Kepler starts search for other Earths

Harvard-Smithsonian scientists part of NASA telescope mission

By Alvin Powell
Harvard News Office

As NASA's Kepler space telescope this week begins scanning the Milky Way for planets that might harbor life, scientists at the Harvard-Smithsonian Center for Astrophysics (CfA) are keeping their fingers crossed and waiting for the data to start flowing.

The information stream is their reward for years of work dedicated to getting the space telescope off the ground and on the job. Kepler, which Astronomy Professor and Co-Investigator Dimitar Sasselov described as a giant space camera, was launched March 6 atop a Delta II rocket from Cape Canaveral in Florida.

Kepler's primary mission is the detection of habitable planets orbiting other stars. The spacecraft's exquisitely sensitive camera is able to detect the slight dimming of distant starlight that indicates a planet is passing between the star and the camera. The amount of starlight thought to be obscured by a small, rocky planet like Earth is so tiny — 10 parts in a million — that detecting it has proved impossible for ground-based telescopes.

With Kepler's ultrasensitive equipment freed from the Earth's obscuring atmosphere, astronomers on the project are confident that they will finally answer the question of whether planets like Earth, with conditions conducive to life as we know it, are common or rare in the universe.

John Geary, another co-investigator based at the Harvard-Smithsonian Center for Astrophysics, has been working furiously since the launch to get the telescope commissioned for its science mission, analyzing image data and serving on technical review committees to get the instrument running smoothly. During a video conference call Monday (May 11), NASA gave the go-ahead to begin the telescope's scientific mission. Observing was set to begin Tuesday, Geary said.

Since the telescope's launch, Kepler has traveled more than 3 million miles into space, trailing the Earth on its orbit around the sun. Geary, an expert in the CCD (charge-coupled device) technology that will capture the images taken by Kepler, has been involved in the project for the past decade. Since his involvement has mainly been with the mission's hardware, now that everything checks out, he expects his role in the telescope's ongoing mission to be reduced.

"Finally, it's there," Geary said. "It's as good as it's going to get."

Seven faculty members and researchers at the CfA are part of Kepler's 46-person scientific team, including Sasselov, Geary, and co-investigator David Latham, senior lecturer on astronomy. Andrea Dupree and Soren Meibom are members of the science working group, while Lecturer on Astronomy Matt Holman and David Charbonneau, the Cabot Associate Professor of Astronomy, are participating scientists. Sasselov and Latham sit on the five-member Kepler Science Council that oversees the project. The project's principal investigator, William Borucki, and deputy principal investigator, David Koch, are based at NASA's Ames Research Center in California.

For the next several years, Kepler will observe stars in the Cygnus-Lyra region of our Milky Way galaxy. Though some of the stars are 3,000 light-years away, the Milky Way is so vast that scientists consider them to be Earth's neighbors.

The discovery of planets around other stars, also called "extra solar planets" or "exoplanets," has grown rapidly



NASA and Ball Aerospace
The honeycomb structure of Kepler's primary mirror makes for an extremely light weight — only 14 percent of a solid mirror of the same dimensions.



NASA/Kim Shiflett

since 1995, when the first planet was discovered around a star similar to our own sun. To date some 350 planets have been discovered orbiting other stars.

Most of those planets, however, have been large gas giants like Jupiter or Saturn, easier to detect because of their size and mass.

There are two major ways that astronomers detect exoplanets. The most successful has been an indirect technique called the "radial velocity" method. As a planet orbits a star, it exerts a gravitational pull that causes the star to wobble slightly in its orbit, moving it slightly closer to Earth and then farther away. This wobble can be detected as a shift in the wavelength of the light reaching the Earth, analogous to the Doppler shift one hears from a passing train.

The second method is the "transiting" method used by Kepler where the planet dims the star's light as it crosses in front of it.

Researchers led by Latham have spent years winnowing out the 14 million stars in Kepler's field of view to about 150,000 candidates most likely to have habitable planets orbiting them. The catalog of those stars took five years of work and eliminates those that are too young and hot, or

too old and cool, or which have other characteristics that either make them unlikely to have planets harboring life or that make it unlikely Kepler will detect them.

Of those 150,000 stars, just a small percentage will be oriented so that their planets cross in front of Kepler's field of view. Even with that taken into account, with such a large sample to start from, there should be more than 1,000 star systems with the proper orientation, Geary said.

Latham, who has been involved in Kepler for more than a decade, said a significant part of the challenge will come after the planets have been detected. Exoplanet research so far has indicated that nine out of 10 detections of likely planets turn out to be false. Weeding out these false positives

will be an important part of the mission, he said.

Like Geary, Latham said there were a few moments of anxiety when the rocket carrying the telescope launched, even though Delta II rockets have proven quite reliable.

"There's always that moment of doubt when you see them light the fuse," Latham said.

Part of the follow-up will involve the use of a second space telescope, Spitzer. After five and a half years of observing the universe in infrared wavelengths, Spitzer's

primary mission is ending, freeing up valuable telescope time for other purposes. Charbonneau proposed a new project to both the Kepler and the Spitzer teams that would use Spitzer to confirm likely planet detections from Kepler. Spitzer's detections would come through the radial velocity method, providing confirmation not just by a different telescope, but also through a different technique.

"Kepler is absolutely revolutionary," Charbonneau said. "It will take the first census of habitable worlds in the galaxy and find out whether habitable planets like Earth are relatively common or whether Earth is a cosmic rarity."

Astronomers are looking for planets within a star's "habitable zone" where water on the planet would be liquid. They can tell by the speed with which a planet transits a star's surface how fast it is moving and how close to the star it is. For a star the size of our sun and a planet the size of the Earth, a favorable orbit would be similar to Earth's, with a transit across the sun once a year. To confirm the planet's presence, Kepler will watch the same section of the sky continuously for the duration of its mission, allowing detection of five or six transits, for example, of a planet like Earth.

Given the accelerating pace of exoplanet discovery in recent years, astronomers on the project are confident they will find a significant number of potentially habitable planets. Even if they don't, however, Kepler's mission design and large sample size will help answer the question of whether planets like Earth are common or not.

Sasselov said he expects some planets — though likely not habitable — to be found almost right away. Short-period planets that orbit very fast and close to their stars will likely be discovered within the first few months. Analysis of the data, however, will delay the first announcement of Kepler's results until the end of the year or early 2010, he said.

In addition to finding new planets, Sasselov said that three previously discovered planets — including one announced by the CfA in January — are in Kepler's field of view and can be studied in greater detail.

"It took years of planning through many interesting turns on the road," Sasselov said. "I'm very confident Kepler will have a good yield."



File Jon Chase/Harvard News Office

"It took years of planning through many interesting turns on the road. I'm very confident Kepler will have a good yield."

Dimitar Sasselov

The Delta II rocket carrying NASA's Kepler spacecraft lifts off March 6, 2009, at Cape Canaveral Air Force Station in Florida.



St. Margaret of Antioch



St. Maxellendis



St. Winifrid



St. Pelagia of Antioch

Courtesy of Carpenter Center

The Arsenale

VES student thesis exhibit displays intimacy, ingenuity, humor

By Sarah Sweeney
Harvard News Office

“Provocative” — one of the most-used words to describe art — may be an understatement for “The Arsenale,” the thesis exhibition for students in the Department of Visual and Environmental Studies, held at the Carpenter Center.

“The first time I kissed a guy,” reads a framed sheet of notebook paper, “I told my mom that it totally grossed me out, and she was like ‘You have to chill out.’”

art This excerpt is one of 15 anonymous retellings of how parents broached the subject of sex with their children. Anna Cecilia Smith '09 collected the personal stories, which ranged from oddly sweet to downright bizarre — but all funny, embarrassing, and cannily relatable. One writer felt resentment after his

parents finally filled him in on the birds and the bees: “Wait a second. They didn’t tell me this for 12 years? What else are they hiding?”

“It’s so hard to talk about; it comes from all different directions,” said Smith of her work to one enthusiastic viewer who exclaimed, “It’s so compelling!”

“Compelling” — another art word that rings true here.

Of Smith’s three large exhibits, it’s difficult to name a fa-

vorite. There’s the portraits of her friends dressed as saints, or, alternatively, the portraits of her friends dressed as pregnant schoolgirls.

The exhibition also features work by Sabrina Chou '09, including a wooden desk littered with beer bottles and, contrastingly, rubber stamps; and an ethereal animated film by Cydney Gray '09. In one of senior Amy Lien’s pieces, stacks of books by authors like Proust and Nietzsche are piled between Harvard library volumes, a walking cane placed on top like a wonderful, nonsensical wedding cake. The collages of Sally Rinehart '09 straddle an entire wall of the Sert Gallery — including a tiny, memorable installation of a framed whisper-pink pair of Victoria’s Secret panties, fake eyelashes, and the headline “Talking Won’t Spoil The Romance.”

Featuring the works of Chou, Camille Graves '08, Gray, Lien, Christen Leigh McDuffee '08, Rinehart, John Selig '09, Nick Shearer '09, Smith, and Lisa Vastola '09, “The Arsenale” is on display through June 4 in the Carpenter Center.

sarah_sweeney@harvard.edu



Work at ‘The Arsenale’ includes senior Anna Cecilia Smith’s reverent (or irreverent) series of saint cards (top) and senior Cydney Gray’s still from ‘Jumping Fences,’ video and animation, approx. 18 min., 2009 (above).



Sally Rinehart’s ‘Mercyism 1: Mom/Dad/Boy/Girl/Kiss/Hug/ Love/Hate (1987-2009)’ (detail, above left) is made of found objects, ephemera, rubber cement, and acrylic epoxy on clear plastic, 2009. Amy Lien’s ‘Proust portrait (circa 1890)/“Proust Chair” (1978),’ inkjet print, 2009, is both evocative and amusing. Both artists are seniors.

