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Record

Sept. 23, 2005

Volume 30 No. 7



Washington University in St. Louis



Gephardt Institute dedication & Constitution Day Chancellor Mark S. Wrighton and Richard A. Gephardt stroll across campus on Sept. 19, a day that included the dedication of the Richard A. Gephardt Institute for Public Service and the recognition of Constitution Day.

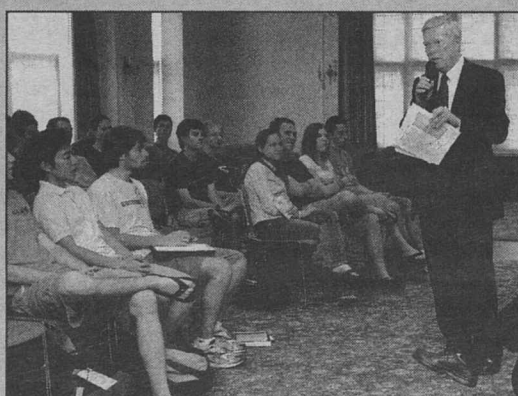


LEFT: In Graham Chapel, Wrighton greets economics guru Hernando de Soto, who spoke at the dedication of the institute. The event also was part of the Assembly Series.

LOWER LEFT: De Soto speaks to an undergraduate economics class in Arts & Sciences as Murray L. Weidenbaum, Ph.D. (far right), the Edward Mallinckrodt Distinguished University Professor, looks on.



BELOW: In the Women's Building Formal Lounge, Gephardt discusses the relevance of the U.S. Constitution in today's society as part of Constitution Day.



Once-a-day AIDS meds in Third World nations to be tested

BY MICHAEL C. PURDY

The public perception of AIDS treatment — a cocktail of many different pills taken several times a day and sometimes even in the middle of the night — has largely been erased in the United States, thanks to advances in drug design and delivery.

Although textbook treatment guidelines still call for patients to take a few AIDS medications twice a day, many patients in industrialized countries now can keep sufficiently high medication levels in their bodies with once-daily doses.

And now, researchers in an international collaboration that includes the Aids Clinical Trials Unit (ACTU) at the School of Medicine have begun an ambitious new study to see if this treatment paradigm can be implemented in Third World countries.

"This is the largest systematic trial of AIDS treatment to ever be conducted on a multinational stage," said David B. Clifford, M.D., the Melba and Forest Seay

Professor of Clinical Neuropharmacology in Neurology and director of the ACTU.

"It's really quite ambitious and exciting."

Although the majority of participants in the study will be in developing nations where AIDS infection rates are much higher than in the United States, nine U.S. AIDS treatment centers, including the Washington University ACTU, also are enrolling patients.

"The fewer times a day that AIDS patients have to remember to take their medicine, the better," Clifford said. "When patients miss scheduled doses, the virus jumps back very quickly and starts figuring out ways around the drugs."

"So we have to keep our foot on the virus and keep the virus nailed to the floor."

To ensure compliance, AIDS physicians will sometimes ask patients to find a friend or family member who will make sure they take their medicine, a technique called direct observation.

"If monitors have to watch patients take their medicine once

See AIDS, Page 6

Engineering Dean Byrnes announces intention to retire

BY TONY FITZPATRICK

Christopher I. Byrnes, Ph.D., dean of the School of Engineering & Applied Science and the Edward H. and Florence G. Skinner Professor in Systems Science and Mathematics, has announced his intention to retire as dean after 15 years in the position, effective June 30, according to Chancellor Mark S. Wrighton.

"Chris Byrnes has made lasting contributions to the School of Engineering & Applied Science, Washington University and to the greater St. Louis community during his tenure as dean," Wrighton said.

"He has broadened the aware-



Byrnes

ness of the school's academic prowess and strengthened ties with alumni and friends everywhere he goes. He has done so with his trademark enthusiasm, wit, sincerity and commitment.

"He has been a tireless advocate for the University as a whole and worked very effectively to build resources for important academic initiatives. Chris is

See Byrnes, Page 6

WUSTL Mars team describes water detection at Gusev crater

BY TONY FITZPATRICK

Led by WUSTL earth and planetary scientists, a large team of NASA scientists has detailed the first solid set of evidence for water having existed on Mars at the Gusev crater, the exploration site of the rover *Spirit*.

Allan Wang, Ph.D., senior research scientist in earth and planetary sciences in Arts & Sciences, and Larry A. Haskin, Ph.D., professor of earth and planetary sciences, who died March 24, used an array of sophisticated equipment on *Spirit* to find that the volcanic rocks at Gusev crater near the rover's landing site

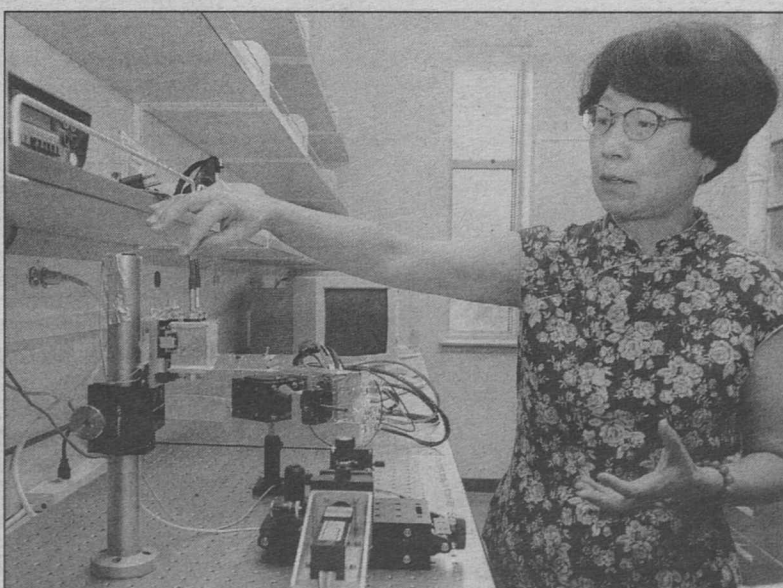
were much like the olivine-rich basaltic rocks on Earth. The researchers also found that some of the rocks possessed a coating rich in sulfur, bromine, chlorine and hematite, or oxidized iron.

The team examined three rocks and found the most compelling evidence in a rock named "Mazatzal."

The rock evidence indicates a scenario where water froze and melted at some point in Martian history, dissolving the sulfur, chlorine and bromine elements in the soil.

The small amount of acidic fluids then react with the rocks buried in the

See Mars, Page 6



Allan Wang, Ph.D., makes adjustments to equipment in her laboratory. Wang and three others from the Department of Earth and Planetary Sciences in Arts & Sciences recently published the first solid set of evidence for water having existed on Mars at the Gusev crater, a site that the rover *Spirit* explored.

DAVID KILPER

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Skinker, Parkway intersection closed this weekend

From 5 p.m. today through 5 a.m. Sept. 26, the intersection of Forest Park Parkway and Skinker Boulevard will be closed.

The closure coincides with the start of excavation for the southwest station entrance. Once the excavation is deep enough, the hole will be covered

with steel plates to accommodate traffic as the workers continue to work on the station entrance.

When complete, the entrance will provide a tunnel for MetroLink riders to get to either side of the tracks without being above ground.

— Andy Clendennen

Retirees honored for 762 years of service

By ANDY CLENDENNEN

On the surface, the number 762 doesn't mean a whole lot to most people.

It could be the number of home runs Barry Bonds finishes his career with; it could be the Cardinals' winning percentage in the postseason; it could even be the number of construction projects going on around campus at any given time.

But one thing we know for sure is that 762 is the combined years of service the University's most recent retirees accumulated.

Thirty-five retirees, many of whom were in attendance, were recognized for their tenures at a luncheon hosted by Chancellor Mark S. Wrighton Sept. 14 at Whittemore House.

Although not in attendance, leading the way with most years served was Jacquelyn Farrell, who

put in 42 years at the School of Medicine, first starting in 1962.

"Dr. Lee Robbins was the person who hired me," Farrell said. "I promised her I would stay for only one year because I wanted to return to college. However, the promised one year became a total of 42 years and eight months, in 2005.

"Annually we have had a laugh about adding yet another year to the promised one."

Farrell served the entire time in the Department of Psychiatry, working in most of its areas for many faculty members.

"I really enjoyed my job," Farrell said. "Over the years I worked with many outstanding individuals, faculty and staff, in a research-oriented department known throughout the world.

"For me, as a secretary, journal manuscripts were exciting to type, and the typing and proofreading of book manuscripts, grant applications and forensic reports brought additional excitement and responsibility to the job. Every day was a new challenge.

"Perhaps the many requested trips to the library define my thoughts regarding the years at Washington University being portrayed not only in published results, but the thrill, and yet seriousness, of being privileged to witness diligent work and to handle ongoing research material containing the knowledge of so many professionals.

"In retrospect, I consider myself fortunate to have been challenged daily as an employee of Washington University."

Traditionally, special recognition is afforded to those retirees in attendance at the luncheon who have the greatest number of years of service with the University. This year, Benjamin Sandler (38 years), Beverly Fogelman (31) and Alice Becker (29) were given baskets of flowers.

"Washington University can boast about more than 150 years of success because of the wonderful people who came here to work with our students and help run the infrastructure of the University," Wrighton said. "These recent retirees have my and everyone's gratitude for the important work they have done here and for the success they have helped bring to the University.

"I am, as always, grateful to those who have dedicated their careers to advancing Washington University."

University retirees

Retirees and their years of service are:

Dianne Aleto (20), Richard Anderson (35), Alice Becker (29), Shaaron Benjamin (25), Charlotte Castillo (23), Margaret Daves (13), Yvonne Davis (20), Jacquelyn Farrell (42), Beverly Fogelman (31), Margaretta Fontaine (15), Wilbert Fritz (26), Elizabeth Fyfe (22), Mary Gilley (10), Edna Harden (16), Wanda Harry (15), Melvin Ingram (21), Stanley Isadore (23), Robert Keeney (20),

James King (28), Bettie Martin (15), Truong Nguyen (10), James Payne (29), Mary Poe-Smith (11), Patrick Reed (16), Barbara Reichert (13), Virginia Roberts (18), Henry Robinson Jr. (28), Thomas Rucinsky (28), Sammy Ruwitch (12), Benjamin Sandler (38), Robert Schaefer (14), A. Catherine Schmitt (30), Mary Tueth (37), Judith Wicklund (13), Geraldine Wynne (16).

All retirees were given walnut plaques, presented by Wrighton; Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; Barbara A. Feiner, vice chancellor for finance; Bill Smith, associate vice chancellor for computing and information systems; and Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences.



(From left) Alice Becker, Benjamin Sandler and Beverly Fogelman were honored at the retiree luncheon Sept. 14 at Whittemore House.



Virgil professorship Olin School of Business Dean Mahendra Gupta, Ph.D. (center), celebrates his recent installation as the inaugural Geraldine J. (left) and Robert L. Virgil Professor in Accounting and Management. Robert Virgil's contributions to the University include serving terms as Olin School dean, vice chancellor for student affairs, executive vice chancellor for university relations and a trustee. The Virgils are involved in a number of organizations and institutions in the community. Gupta, who became the Olin School dean on July 1, has been recognized several times for his teaching with both the Reid M.B.A. and the Reid E.M.B.A. Teacher of the Year award.

Sports

Volleyball team claims Teri Clemens crown

The No. 1 volleyball team defeated three more highly ranked teams en route to winning the third annual Teri Clemens Invitational.

The Bears knocked off No. 13 Trinity University, 3-1, and followed with a come-from-behind 3-2 win against No. 8 University of La Verne to claim the tournament title Sept. 17.

In the match against La Verne, WUSTL dropped the first two games, 30-27 and 30-22, for an 0-2 deficit. WUSTL rebounded in game three behind sophomore Emilie Walk, who pounded out nine kills in the frame to lead the Bears to a 30-16 win. With the score tied at 14-14 in game four, the Red and Green went on a 5-0 run and held on for a 30-27 win in the fourth, setting up their comeback.

As it had all match, WUSTL battled from behind in the fifth frame. Down 7-3, the Bears scored the next 10 points.

Washington U. completed the comeback with a 15-11 win in the final game.

On Sept. 16 against No. 2 and defending national champion Juniata College, WUSTL opened the Invitational with a 3-1 win.

Men's soccer team remains undefeated

The men's soccer team went 1-0-1 last week to move to 3-0-3 on the season.

The Bears unbeaten streak stands at seven games, dating back to the 2004 season finale.

The Red and Green defeated Principia College, 1-0, Sept. 13 to start the week. Just before the midway point of the second half, sophomore Marshall Plow beat his defender along the end line and approached the goal box. Before the Principia goalkeeper could react, Plow passed the ball to Onyi Okoroafor, who buried the game-winner from seven yards out.

On Sept. 18, WUSTL earned a 0-0 draw versus undefeated Centre College (4-0-1).

Women's soccer team loses to No. 6 Denison

The No. 5 women's soccer team fell to 4-2 with a 1-0 loss to sixth-ranked Denison University on Sept. 18. The Bears outshot Denison, 9-6, but were unable to score. Denison (6-1) scored a little more than two minutes into the contest.

Football beaten in home opener

The football team began its 2005 home slate with a 23-7 loss to Wabash College on Sept. 17 at Francis Field. Wabash improves to 2-0 with the win, while Washington U. falls to 1-2.

Wabash got on the board first after senior QB Russ Harbaugh connected with sophomore Michael Russell for a 56-yard touchdown pass. The Little Giants led 14-0 at halftime.

Washington University put together the longest drive in school history when the Bears marched 99 yards on 10 plays for their first score of the game.

Junior DaRonne Jenkins scored from 7 yards out to cut the Wabash lead to 20-7 with 8:18 left in the fourth.

Senior Brad Duesing led the Bears with five receptions for 117 yards as he notched his 16th career 100-yard receiving game.

Cross country teams shine at Stampede

The men's and women's cross country teams finished fifth out of more than 30 teams at the Southern Stampede Sept. 17 at Missouri Southern University.

The field included NCAA programs from all levels.

The men took fifth out of 33 teams with 169 points, while the women finished fifth out of 35 with 183 points. Both teams regis-

tered the best Division III performance at the meet.

WUSTL's men were led by senior Brennan Bonner (18th, 25:05.00) and junior Kevin Gale (28th, 25:34.50).

The women were paced by junior Beth Herndon (15th, 17:56.50).

Rosenthal leads men's tennis team

The men's tennis team won two singles and doubles flights at the WUSTL Invitational held Sept. 16-18.

Senior Ari Rosenthal posted a 6-0 overall record winning the A doubles and A singles titles. He paired with freshman Chris Hoeland to win the top doubles flight.

Freshman Preston has impressive debut

The women's tennis team opened the fall season by hosting the WUSTL Invitational.

Freshman Carrie Preston made a big debut for the Red and Green, winning the A doubles and A singles titles.

Preston paired with junior Erin Fleming for a 3-0 record in the top doubles flight.

The duo won its first-round match 8-5 and followed with an 8-0 win in the second round.

In the final, Preston and Fleming defeated teammates Lauren Zwick and Shweta Pai, 8-2.

Record

Founded in 1905
Washington University community news

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Record (USPS 600-430; ISSN 1043-0520), Volume 30, Number 7/Sept. 23, 2005. Published for the faculty, staff and friends of Washington University. Produced weekly during the school year, except school holidays, and monthly during June, July and August by the Office of Public Affairs, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, MO 63130. Periodicals postage paid at St. Louis, MO.

Where to send address changes

Postmaster and nonemployees: Record, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, MO 63130.

Employees: Office of Human Resources, Washington University, Campus Box 1184, One Brookings Drive, St. Louis, MO 63130.

School of Medicine Update

Siteman opens cancer center at Barnes-Jewish St. Peters

BY GWEN ERICSON

The Siteman Cancer Center recently announced the opening of the Siteman Cancer Center at Barnes-Jewish St. Peters Hospital.

Ovarian cancer survivor and St. Charles County resident JoAnn Carter explained firsthand why having world-class cancer services close to home is so vital.

In 1999, Carter was diagnosed with ovarian cancer and turned to the experts at Siteman. She was grateful the drive for weekly chemotherapy was only 30 miles, but it was still challenging.

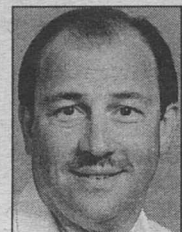
In 2004, her trips to Siteman began again when her husband of 52 years, Darold Carter, was being treated for brain cancer.

After her husband passed away, JoAnn Carter began spending time spreading awareness about cancer.

"Cancer patients prefer care right in their neighborhood," Carter said. "Chemotherapy is

exhausting, and I'm thrilled knowing that now there is a nationally recognized cancer center just a few miles from my home.

"For certain procedures and treatments, it is wonderful to have a power-house like Siteman's main location within reach. But to now have access to so many services and clinical trials right here in St. Charles County is ideal."



Eberlein

University medical oncologist Timothy Pluard, M.D., serves as medical director of the new Siteman Cancer Center at Barnes-Jewish St. Peters Hospital.

Trained at the School of Medicine and Harvard Medical School, Pluard brings more than 15 years of experience as a medical oncologist, including the past 12 in

St. Charles County.

The new center offers a complete array of services, including medical and radiation oncology; cancer screening programs; and a full range of educational, nutritional, spiritual and support services for cancer patients and their families.

Patients will also now have access to the leading-edge research and treatment studies offered by the main Siteman campus, which recently became the only National Cancer Institute (NCI)-designated Comprehensive Cancer Center in Missouri — and within a 240-mile radius of St. Louis.

"Together, we are excited to bring world-class cancer care to St. Charles County," said David Ross, president of Barnes-Jewish St. Peters Hospital.

"Ultimately, this partnership and new, modern facility give St. Charles families access to nationally recognized cancer care through the Siteman Cancer

Center and Washington University School of Medicine — right in their own neighborhood."

Ross added that the building was designed with patients in mind — such as the Garden of Hope, which is visible through a large wall of windows in the treatment room.

"Bringing the most advanced clinical services and clinical research studies to our community in the most convenient manner possible is part of what it means to be an NCI-designated Comprehensive Cancer Center," said Timothy J. Eberlein, M.D., director of the Siteman Cancer Center, head of the Department of Surgery and the Spencer T. and Ann W. Olin Distinguished Professor of the medical school.

"We are pleased that through this partnership, we are able to bring these high-caliber services to the people of St. Charles and its surrounding communities."

Barnes-Jewish St. Peters Hos-

pital is an ideal location for the new cancer center, as St. Charles County is home to nearly 312,000 residents.

Not only is St. Charles County one of the fastest-growing counties in the United States, but also in a recent telephone survey of county residents, almost three-fourths agreed that people in the community who are seriously ill needed better access to hospital care.

The \$7 million cancer center covers 14,055 square feet on the hospital's campus, next to the Outpatient Surgery and Endoscopy Center.

The center was created with patient convenience in mind. The one-stop shop features ample free parking right outside the door, on-site registration and lab testing; eight exam rooms; eight infusion chairs, two of them in semi-private rooms; a medication room for mixing drugs and a CT simulator for radiotherapy treatment planning.

Eye-opening discovery: Scientists use fruit fly to examine kidney development in humans

BY GWEN ERICSON

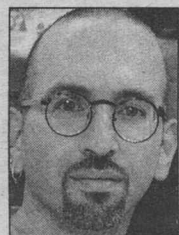
The laws of physics combine with the mutual attraction of two proteins to create the honeycomb pattern of fruit fly eyes, according to University molecular biologists. This same combination of forces forms the delicate filtering structures of the mammalian kidney.

The findings, recently reported in the journal *Developmental Cell*, provide a new understanding of how individual cells find their niche during organ development. They also mean that the fruit fly eye can now become a fast, inexpensive system for gaining insight into how kidneys develop in mammals and why development sometimes goes awry.

"We've challenged scientists who study the development of organs such as eyes and kidneys to think about physics," said Ross Cagan, Ph.D., associate professor of molecular biology and pharmacology. "In the developing fruit fly eye, we found that cells change shape and move into their proper placement because they want to minimize the free energy of the system."

Just as molecules of oil floating in water will gather together to exclude water molecules, cells with "sticky" molecules on their surface will gather together in clumps to exclude "non-sticky" cells during organ development.

This property of cell adhesion has been previously proposed as a key to moving different cell types into the right positions as developing organs change from an immature, disorganized state to a mature, functional state.



Cagan

Cagan and his colleague Sujin Bao, Ph.D., research associate in molecular biology and pharmacology, have expanded this principle by showing that cell types possessing two different adhesion molecules, instead of just one, will form a pattern in which one cell type surrounds the other cell type.

They found that two proteins, named "Roughest" and "Hibris," play central roles in this process during late stages of development of the fruit fly eye.

"Before the late stages of development, sets of primary cells are surrounded by a disorganized net of support cells," Cagan said. "But then the cells start producing either Roughest or Hibris on their surfaces, and you see a tight honeycomb pattern of cells take shape."

Cagan and Bao found that the primary cells in the "holes of the net" express Hibris and the support cells that form the net express Roughest. Roughest and Hibris proteins stick to each other, but they don't stick to their own kind.

As the proteins appear on the surface of the cells, the laws of physics kick in to

move the support cells into positions determined by the energy of attraction.

Because Roughest is strongly attracted to Hibris, but not to other Roughest molecules, the support cells are attracted to the surfaces of the primary cells but not to each other.

In competition with its neighbors, each Roughest-expressing support cell stretches out as far as it can along a primary cell. Support cells that express less Roughest lose the competition for primary-cell attachment and die off.

At the end of the process, a neat one-cell-thick hexagonal wall of support cells surrounds the primary cells. The repetition of this pattern across the entire fly eye is responsible for the regular honeycomb pattern of the 800 optical units present in the fruit fly compound eye.

"We and others searched for a long time for human equivalents to Roughest and Hibris," Cagan said. "Surprisingly, they were found in the kidney."

The equivalent kidney proteins are called Neph1 and Nephron. They draw together certain kidney-cell junctions in a tight but porous seal that filters urea and other unwanted molecules from the blood vessels within kidney nephrons, structures that filter waste from the blood.

Without functioning Neph1 and Nephron, kidneys don't filter properly, leading to neuropathy. Alterations within nephrons have been linked to hypertension.

The mammalian-kidney versions and the fruit-fly-eye versions of these proteins are fairly specific to their own organs. That is, Neph1 and Nephron are not widely distributed in the mammalian body, and they have no close equivalents in the more primitive kidneys of other kinds of organisms.

Roughest and Hibris are found mainly in the late stages of development of the compound eyes of insects related to fruit flies. Interestingly, Neph1 and Nephron are more like Roughest and Hibris than they are like any other protein found in mammals.

"The evolution of these similar proteins in two very distantly related groups of organisms and for these similar purposes suggests that the two systems, the developing kidney and the developing fly eye, used these proteins to solve the same problem — the problem of how to build intricate, fine-structured tissues from a loose collection of cells," Cagan said.

"The questions we are asking in the fruit fly — about how cells are sorted — are questions we couldn't dream of asking by using the mammalian kidney. The fruit fly eye is a much more tractable and faster-moving system."

"When we make discoveries in the fly, such as the roles of Roughest and Hibris, we can then look at the mammalian kidney equivalents, but now in a much more knowledgeable way. Hopefully, we can 'fast-forward' research on kidney development."



Celebrating in style Guests socialize during the Sept. 16 Opening Celebration of the Farrell Learning and Teaching Center, which will serve as the main venue for biomedical education for medical and graduate students at the School of Medicine.



LEFT: William A. Peck, M.D. (left), director of the Center for Health Policy and the Alan A. and Edith L. Wolff Distinguished Professor of Medicine, and Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, stand on the second-floor balcony overlooking the Farrell Center atrium.



BELOW: Medical student Mai-Lan Ho plays her violin for guests.

University Events

Healy to launch Architecture Lecture Series

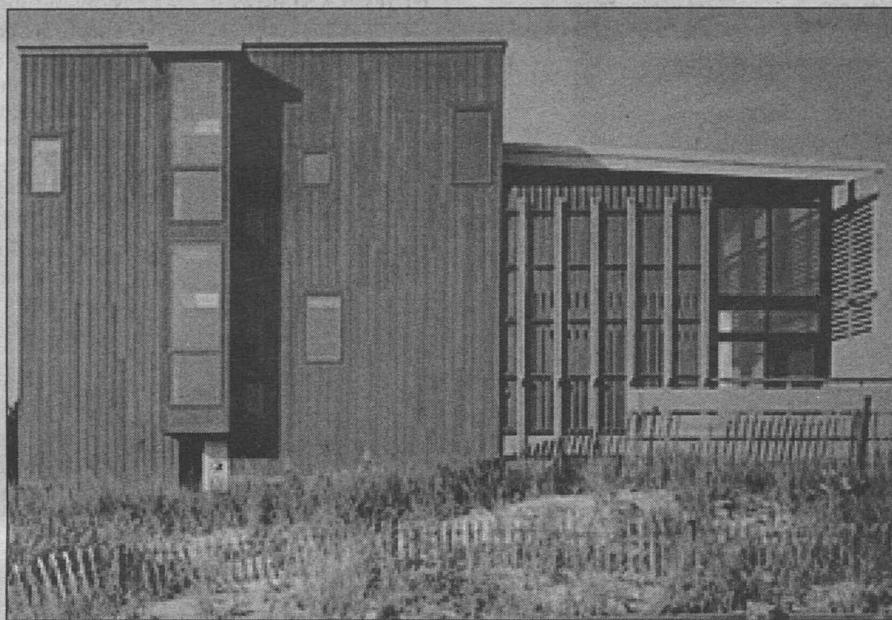
Brian Healy, founder and principal of Brian Healy Architects in Boston, will launch the fall Architecture Lecture Series, sponsored by the Sam Fox School of Design & Visual Arts, with a talk at 7 p.m. Sept. 26 in Steinberg Auditorium.

Healy, who is serving as the Sam Fox School's Ruth and Norman Moore Visiting Professor of Architecture for 2005-06, worked in the offices of Cesar Pelli and Richard Meier before establishing his own practice in 1986.

His work has received dozens of honors and awards and has been featured in the "Emerging Voices Series of the New York Architectural League" (1999); the "Forty Under Forty" (1996) compilation of emerging architects and designers; the "Young Architects" issue of *Progressive Architecture* (1990); and "Young Architects: Eastern USA" issue of *Ottogono* (1987).

His residential work is featured in a *Casas Internationales* monograph.

In all, the Architecture Lecture Series will feature eight presenta-



Beach House (1997) by Brian Healy Architects. Healy will speak about his work Sept. 26 for the Sam Fox School's Architecture Lecture Series.

tions by established masters and emerging talents from England, the Netherlands and across the United States. Speakers will be:

- **Oct. 3:** Nader Tehrani of Office dA in Boston;
- **Oct. 10:** Robert Hull of Miller/Hull Architects in Seattle;
- **Oct. 17:** Michael Maltzan of Michael Maltzan Architecture in Los Angeles;
- **Oct. 31:** Ben van Berkel of UN Studio in the Netherlands;
- **Nov. 7:** Lise-Anne Couture of Asymptote in New York;

- **Nov. 14:** Gregg Pasquarelli of SHoP Architects in New York; and
- **Nov. 21:** Larry Malcic, senior vice-president and director of design for HOK, London.

All lectures are free and open to the public and will begin at 7 p.m. on Mondays in Steinberg Auditorium.

A reception will be held prior to each talk at 6:30 p.m. in Givens Hall.

For more information, call 935-6200 or go online to www.arch.wustl.edu.

'Science on Tap'

Lectures offered in relaxed atmosphere

By TONY FITZPATRICK

Three Hilltop Campus Arts & Sciences faculty — a biologist, geologist and mathematician — will open a new series, "Science on Tap," at the Crown Room of the Schlafly Bottleworks, 7260 Southwest Ave. in Maplewood.

The lecture/discussions will open at 7 p.m. Sept. 28 with a presentation by Michael E. Wyssession, Ph.D., associate professor of earth and planetary sciences in Arts & Sciences, who will speak on "The Sumatra Earthquake: Could It Happen Here?"

Each lecture will be on the last Wednesday of the month. The events will begin at 7 p.m. and conclude by 8:30 p.m.

The series is modeled after the popular Café Scientifique (www.cafescientifique.org), which was started in Europe, according to "Science on Tap" organizer Cynthia Wichelman, M.D., assistant professor of medicine and Mini-Medical School course director.

"This is a very exciting, novel program that reaches out to people in a relaxed, engaging atmosphere," Wichelman said.

"The speakers we have to start out are extremely interesting people who love reaching audiences. We're really looking forward to this endeavor."

The room holds approximately 100 people seated at tables.

There will be a microphone and podium, but no audio-visual component.

According to Wichelman, the format will comprise a 20-minute presentation, followed by a seven-minute break for the attendees to introduce themselves to each other at the tables, and then an hour of discussion.

The discussion will be led by questions from the audience, but directed by the speaker.

Following Wyssession will be John McCarthy, Ph.D., professor of mathematics, who will discuss "Chaos," Oct. 26; and Barbara Schaal, Ph.D., the Spencer T. Olin Professor in biology, who will discuss: "Plants and People — Is the Beer You Are Drinking Safe?" Nov. 30.

For questions or comments, call 935-5285. For more information, go online to science.ontap.wustl.edu.

Wal-Mart • Crossin' Over • The Sumatra Earthquake

"University Events" lists a portion of the activities taking place Sept. 23-Oct. 6 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibitions

Chemical Heritage Foundation Traveling Exhibit. *Her Lab in Your Life: Women in Chemistry.* Through Sept. 23. Lab Sciences Bldg., Rettner Gallery. 935-6593.

Lectures

Friday, Sept. 23

9:15 a.m. Pediatric Grand Rounds. "Imaging Seizures." John Zempel, asst. prof. of neurology. Clifton Aud., 4950 Children's Place. 454-6006.

Noon. Cell Biology & Physiology Seminar. "Where Do Oncogenic Tyrosine Kinase Signals Come From?" Michael Tomasson, asst. prof. of internal medicine. McDonnell Medical Sciences Bldg., Rm. 426. 362-7437.

4 p.m. Music Lecture. "Talking Machine World: Music and Globalization in the Early Twentieth Century." Karl Hagstrom Miller, asst. prof. of history, U. of Texas. Music Classroom Bldg., Rm. 102. 935-4841.

Monday, Sept. 26

Noon. Molecular Biology & Pharmacology. "KATP Channels: From Structure to Disease." Colin G. Nichols, prof. of cell biology & physiology. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

Noon. Work, Families, and Public Policy Brown Bag Seminar Series. "Are You Saving Enough for Retirement?" Jonathan Skinner, John French Professor of Economics, Dartmouth College. Eliot Hall, Rm. 300. 935-4918.

4 p.m. Immunology Research Seminar Series. "GIR-induced Signaling: Regulation at the Interface Between Treg Cells and Immune Effector Cells." Robert Arch, asst. prof. of medicine. Moore Aud., 660 S. Euclid Ave. 362-2763.

5:30 p.m. Cardiac Bioelectricity and Arrhythmia Center Seminar Series. "Inflammatory Mechanisms in Post-operative Atrial Fibrillation." Richard Schuessler, assoc. research prof. of surgery and of biomedical engineering. (5 p.m. reception.) Whitaker Hall, Rm. 218. 935-7887.

7 p.m. Sam Fox School Architecture Lecture Series. Brian Healy, architect, Brian Healy Architects, Boston, and Ruth & Norman Moore Visiting Professor. Steinberg Hall Aud. 935-9347.

Tuesday, Sept. 27

8 a.m.-4:30 p.m. St. Louis STD/HIV Prevention Training Center CME Course. "STD Update." (Continues same time Sept. 28-30.) Cost: \$75. For location and to register: 747-1522.

Wednesday, Sept. 28

11 a.m. Assembly Series. Thomas Fulbright Lecture in History. "The Miracle of Religion in Modern American History." Jon Butler, dean of the Graduate School of Arts & Sciences and Howard R. Lamar Professor of American History, Yale U. Graham Chapel. 935-4620.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Protein Folding, Macromolecular Assembly and Disease." Scott Hultgren, prof. of molecular microbiology. Cori Aud., 4565 McKinley Ave. 362-4152.

7 p.m. Sam Fox School Visiting Artist Lecture Series. T.L. Solien, artist. Steinberg Hall Aud. 935-9347.

7 p.m. "Science on Tap" Lecture. "The Sumatra Earthquake: Could It Happen Here?" Michael Wyssession, assoc. prof. of earth & planetary sciences. Schlafly Bottleworks, 7260 Southwest Ave. 935-5285.

Thursday, Sept. 29

7:30 a.m.-5:15 p.m. General Thoracic Surgery CME Course. "Contemporary General Thoracic Surgery." (Continues 9 a.m.-5 p.m. Sept. 30.) Cost: \$500. Eric P. Newman Education Center. To register: 362-6891.

Noon. Chabad on Campus Law School Jewish Lunch and Learn. "Examining Secular Issues and Jewish Law." Rabbi Hershey Novack, Chabad on Campus. Anheuser-Busch Hall, Rm. 201. 721-2884.

3 p.m.-8 p.m. Center for Interdisciplinary Studies Conference. "The New Corporate Governance Conference." (Continues 9 a.m.-5:30 p.m. Sept. 30 and 8:30 a.m.-1:30 p.m. Oct. 1.) Anheuser-Busch Hall, Bryan Cave Moot Courtroom. To register: 935-7988.

4 p.m. Chemistry Seminar. "Tryptophan Catabolism: Gene Identification and Mechanistic Studies." Tadhg Begley, prof. of chemistry and chemical biology. Cornell U. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Molecular Biology & Pharmacology Lecture. Annual Oliver H. Lowry Lecture. "RNAi and Development in *C. elegans*." Craig C. Mello, Blais Professor of

Molecular Medicine, U. of Mass. Moore Aud., 660 S. Euclid Ave. 362-0198.

4 p.m. Ophthalmology & Visual Sciences Seminar. "Mammalian Genetics to Study Early Visual Signaling." Ana Mendez, research assoc., Zilkha Neurogenetic Inst., U. of Southern Calif. Maternity Bldg., Rm. 725. 362-1006.

Friday, Sept. 30

9:15 a.m. Pediatric Grand Rounds. "Tails of a Broken Heart." Patrick Jay, asst. prof. of pediatrics and of genetics. Clifton Aud., 4950 Children's Place. 454-6006.

Noon. Cell Biology & Physiology Seminar. "Genome-scale Analysis of G-protein and MAP Kinase Signal Regulation in Yeast." Henrik G. Dohlman, prof. of biochemistry & biophysics, U. of N.C. McDonnell Medical Sciences Bldg., Rm. 426. 362-6040.

Saturday, Oct. 1

10 a.m. Physics Saturday Science Lecture Series. "The Measurement of Astronomical Distances: To What Lengths Will Astronomers Go?" Michael Friedlander, prof. of physics. Crow Hall, Rm. 201. 935-6276.

Monday, Oct. 3

8:30 a.m.-4:30 p.m. Center for the Application of Information Technology Two-day Workshop. "IT as a Service Organization." (Continues 8:30 a.m.-4:30 p.m. Oct. 4.) Cost: \$1,195, reduced fees available for CAIT member organizations. CAIT, 5 N. Jackson Ave. 935-4444.

4 p.m. Immunology Research Seminar Series. "BMP Signaling in Hematopoietic and Vascular Development." Kyunghee Choi, assoc. prof. of pathology & immunology. Moore Aud., 660 S. Euclid Ave. 362-2763.

7 p.m. Sam Fox School Architecture Lecture Series. Nader Tehrani, Office dA, Boston. Steinberg Hall Aud. 935-9347.

Tuesday, Oct. 4

10 a.m. Program in Physical Therapy Research Seminar. "Carotid Arthropathy: 'A Perfect Storm' for Bone Loss." Dave Sinacore, assoc. prof. of medicine and of physical therapy. 4444 Forest Park Blvd., Lower Lvl., Rm. B108/B109. 286-1404.

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "The Human Gut Microbiota: Terra Incognita Is Becoming More Cognita." Jeffrey Gordon, Dr. Robert J. Glaser Distinguished University Professor of Molecular Biology & Pharmacology. Cori Aud., 4565 McKinley Ave. 362-3692.

4 p.m. Anthropology Colloquium. "Why the French Don't Like Headscarves."

John Bowen, Dunbar-Van Cleave Professor in Arts & Sciences. (3:30 p.m., Reception.) McMillan Hall, Rm. 149. 935-5252.

5:30 p.m. Biochemistry & Molecular Biophysics Biophysical Evenings Seminar. "Multi-photon Imaging of Lymphoid Tissue Dynamics." Mark Miller, asst. prof. of pathology & immunology. Cori Aud., 4565 McKinley Ave. 362-4152.

Wednesday, Oct. 5

8:30 a.m.-4:30 p.m. Center for the Application of Information Technology Two-day Workshop. "Strategies to Increase Your Value as an IT Professional." (Continues 8:30 a.m.-4:30 p.m. Oct. 6.) Cost: \$1,195, reduced fees available for CAIT member organizations. CAIT, 5 N. Jackson Ave. 935-4444.

11 a.m. Assembly Series. Olin Fellows Conference Lecture. "Science Is Important, But It Isn't Everything." Pamela Nagami, physician and author. Graham Chapel. 935-4620.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Chimeric Metallopeptide Nucleases: The Helix-turn-helix as a Scaffold for DeNovo Design." Sonya Franklin, assoc. prof. of chemistry, U. of Iowa. Cori Aud., 4565 McKinley Ave. 362-4152.

4:15 p.m. Earth & Planetary Sciences Colloquium. "Air Hockey for Giants: A Solution to the Heart Mountain Fault Problem." Edward Beutner, prof. emeritus of geology, Franklin and Marshall College. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

Thursday, Oct. 6

Noon. Center for Health Policy Brown Bag Seminar Series. "Targeting Disparities in Mental Health: Older African-American Clients in Community Long-Term Care." Enola Proctor, Frank J. Bruno Professor of Social Work Research. Simon Hall, Rm. 241. 935-9108.

Music

Thursday, Sept. 29

8 p.m. Jazz at Holmes. Piah Williams, piano. Ridgely Hall, Holmes Lounge. 935-4841.

Sunday, Oct. 2

2:30 p.m. Concert. Washington University Symphony Orchestra. Dan Presgrave, dir. Graham Chapel. 935-4841.

Thursday, Oct. 6

8 p.m. Jazz at Holmes. Dave Stone, saxophone. Ridgely Hall, Holmes Lounge. 935-4841.

On Stage

Friday, Sept. 23

4 p.m. Women & Gender Studies Presentation. *Words of Choice.* Uppity Theatre Company. Co-sponsored by the Performing Arts Dept. Women's Bldg. Formal Lounge. 935-5102.

7 p.m. Visiting East Asian Professionals Program Presentation. *My Journey.* Uhan Shii Theatre Group. Cost: \$10, free to students with ID. Forest Park, Saint Louis Art Museum Auditorium, 1 Fine Arts Drive. 935-8772.

8 p.m. Black Repertory Company Production. *Crossin' Over.* (Also 8 p.m. Sept. 24; 3 p.m. Sept. 25.) Cost: \$10-30. Edison Theatre. For tickets: 534-3810.

Sports

Saturday, Sept. 24

7 p.m. Football vs. North Central College. Francis Field. 935-4705.

Wednesday, Sept. 28

7 p.m. Women's Soccer vs. Principia College. Francis Field. 935-4705.

Saturday, Oct. 1

1 p.m. Football vs. Rhodes College. Francis Field. 935-4705.

Worship

Tuesday, Oct. 4

10:30 a.m. Chabad on Campus Rosh Hashanah Explanatory Service. Rabbi Hershey Novack, officiant. Bais Abraham, 6910 Delmar Blvd. Reservations suggested to 721-2884.

And more...

Friday, Sept. 23

4 p.m. Writing Program Reading Series. Robert Crawford, poet and author. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

Tuesday, Sept. 27

2 p.m. Federalist Society Debate. "Make Way for Wal-Mart! Eminent Domain After Kelo." Scott Bullock, sr. attorney, Institute



Katrina discussion James Herbert Williams, Ph.D. (left), associate dean of academic affairs in the George Warren Brown School of Social Work, special assistant to the chancellor for urban and community initiatives and the E. Desmond Lee Professor of Racial and Ethnic Diversity, speaks during the Sept. 14 faculty forum titled "Storms, Politics and the Destruction of the American Gulf Coast: A Washington University Faculty Roundtable on What Hurricane Katrina Wrought." Looking on are T.R. Kidder, Ph.D. (center), professor of anthropology in Arts & Sciences, and John Baugh, Ph.D., chair of African and African American Studies in Arts & Sciences and the Margaret Bush Wilson Professor in Arts & Sciences. The forum, during which faculty from multiple disciplines discussed the social, economic and cultural impacts of Hurricane Katrina, was sponsored by American Culture Studies and the Center for the Humanities, both in Arts & Sciences; the Center for Joint Projects in the Humanities and Social Sciences; and the Center on Urban Research and Policy.

'Science Saturdays' series to scan the skies

By ANDY CLENDENNEN

With the success of the Mars rover and the recent discovery of another planet in our solar system, exploring the cosmos has come back into the public eye as people start wondering about the basic question of "What, or who, else is out there?"

Once again, University College in Arts & Sciences, in conjunction with the Department of Physics in Arts & Sciences, is offering a series of "Science Saturdays" — four lectures in October that this year surround the theme "Understanding the Heavens."

"This is a golden age for astronomy," said Michael Friedlander, Ph.D., professor of physics, who will deliver one of the lectures.

"New telescopes, more sensitive ways of detecting light, infrared, X-rays and gamma rays. Great discoveries, but still many puzzles."

"In this fall's lectures, we will provide some background information at a popular level, with no math."

"Fundamental to all of astronomy is the measurement of distances, and this will be the subject of the first lecture. In the following

lectures, we will describe various measurements and the objects we observe — stars, galaxies — and cosmology, the largest-scale picture of our universe."

The lectures are free and open to the public and will take place from 10-11:30 a.m. in Crow Hall, Room 201.

The schedule is listed below.

• Oct. 1: "The Measurement of Astronomical Distances," given by Friedlander. Measurement of distances is fundamental to any understanding of the structure and behavior of celestial objects. The range of distances is truly astronomical, from relatively nearby planets to the farthest galaxies. Friedlander will describe a variety of methods for measuring distances.

• Oct. 8: "Detecting Astronomical Radiations," presented by Martin Israel, Ph.D., professor of physics. Historically, all measurements were made from the ground, looking up through the atmosphere. Now we can make observations from satellites. Historically, all observations used light, but now we can use radio waves, infrared and ultraviolet radiation, and X- and gamma rays. What can we learn from

these different parts of the spectrum?

• Oct. 15: "Planets, Stars and Galaxies," given by Henric Krawczynski, Ph.D., assistant professor of physics. The structures and dimensions of planets, stars and galaxies differ widely. We can identify and then classify these objects through examining the radiation we receive from them. What is the structure of ordinary stars? What are white dwarfs and black holes, pulsars and quasars?

• Oct. 29: "Cosmology," presented by Ramanath Cowsik, Ph.D., professor of physics. Cosmology is the study of the universe on the largest scale of distances and the longest scale of time. What is the evidence that the universe is expanding? The Big Bang theory is the current best model to describe the earliest stage of the evolution of the universe. What is the supporting evidence? Will the expansion continue or could the universe contract? What are current ideas of the structure and evolution of our universe?

For more information, call 935-6276 or 935-6700, or go online to wuphys.wustl.edu.

Poets Crawford, Ramke to read for Writing Program Reading Series

Scottish poet and scholar Robert Crawford will read from his work at 4 p.m. today, and distinguished poet Bin Ramke will read from his work at 8 p.m. Sept. 29.

Both events for the Writing Program Reading Series are free and open to the public and will take place in Hurst Lounge in Duncker Hall.

Crawford is the author of five poetry collections: *A Scottish Assembly* (1990), *Talkies* (1992),

Masculinity (1996), *Spirit Machines* (1999) and *The Tip of My Tongue* (2003). He has published several volumes of literary criticism on Scottish literature and poetry and is co-editor of *The Penguin Book of Poetry From Britain and Ireland Since 1945* (with Simon Armitage, 1998) and *The New Penguin Book of Scottish Verse* (with Mick Imlah, 2000).

In 1984, Crawford was a founder of the international

magazine *Verse* and later served as poetry editor for the Edinburgh publisher Polygon.

"Like his critical prose, Crawford's poetry describes what happens when poetry's old languages of romantic and religious experience intervene in new worlds of technology and science," said Marina MacKay, Ph.D., assistant professor of English in Arts & Sciences.

"Witty and clear-sighted about what nationality might mean in an era of transnational opportunities and pressures, Crawford's poetic version of Scotland as a marginalized territory and an old imperial sinner manages to be both introspective and internationalist."

Crawford was born in Belshill, Lanarkshire, Scotland, in 1959, and educated at Glasgow University and at Oxford. A fellow of the Royal Society of Edinburgh, he is a professor of modern Scottish literature at the University of St. Andrews.

Corporate governance reforms to be examined

By JESSICA MARTIN

Over the past five years, corporate governance has undergone historic changes.

In addition to new policies enacted by state judiciaries and attorneys general, Congress adopted the Sarbanes-Oxley Act, the U.S. Securities and Exchange Commission enacted important securities law reforms, and the New York Stock Exchange and NASDAQ reformed listing standards.

The world's leading experts on corporate governance will come to the University for a conference Sept. 29-Oct. 1 to discuss the impact of these changes.

"The 'New' Corporate Governance: How are Reforms Working?" — presented by the Center for Interdisciplinary Studies (CIS) and co-sponsored by the Whitney R. Harris Institute for Global Legal Studies at the School of Law — will feature panel discussions among media, SEC members, business leaders, academics and attorneys.

"The time is right for a serious examination of corporate governance reforms," said John N. Drobak, J.D., the George Alexander Madill Professor of Law and director of the CIS. "Leading experts from around the world will bring a variety of perspectives to this conference, generating exciting discus-

sion and insightful assessments of corporate governance today and into the future."

Discussion topics include:

- "The Role of the CEO: Celebrity, Monarch or Manager?"
- "The Energized Board of Directors"
- "The Why, When, How and How Much of Executive Pay"
- "The Active Shareholder"
- "The Media and Corporate Governance: Praise or Shame?"
- "A View From Afar: International Perspectives"

Serving as keynote speakers will be Roel Campos, SEC commissioner; Michael Jensen, the emeritus Jesse Isidor Straus Professor of Business Administration at the Harvard Business School and managing director of the organizational strategy practice at the Monitor Company; and Joel Seligman, J.D., president of the University of Rochester, former dean of the WUSTL School of Law and author of *Securities Regulation*.

Panel discussions will be held in the Bryan Cave Moot Courtroom of Anheuser-Busch Hall and are free and open to the public.

The conference agenda and registration information is online at law.wustl.edu/centeris/fall05/corpgov.

For more information, contact Linda McClain at 935-7988 or lmccain@wulaw.wustl.edu.

'Work, Families and Public Policy' series to continue on Sept. 26

Faculty and graduate students from area universities with an interest in topics relating to labor, households, health care, law and social welfare are being invited to take part in a series of Monday brown-bag luncheon seminars to be held biweekly through December.

Now in its ninth year, the "Work, Families and Public Policy" series features one-hour presentations on research interests of faculty from local and national universities.

Presentations will be from noon-1 p.m. in Eliot Hall, Room 300, and will be followed by a half-hour discussion period.

The series, designed to promote interdisciplinary research, began Sept. 12 with a talk by Glenn Loury, Ph.D., University Professor and professor of economics at Boston University, on "Toward an Economic Theory of Dysfunctional Identity."

Remaining presentations are listed below.

• Sept. 26: Jonathan Skinner, Ph.D., the John French Professor of Economics and professor of community and family medicine at Dartmouth College, will address

"Are You Saving Enough for Retirement?"

• Oct. 10: Amy Wax, J.D., M.D., professor of law at the University of Pennsylvania Law School, will discuss "Is the Family Friendly Workplace Possible? Computer Simulations Using a Game Theoretic Model."

• Oct. 24: Claudia Goldin, Ph.D., the Henry Lee Professor of Economics at Harvard University, will focus on "The Homecoming of American College Women: The Reversal of the Gender Gap in Higher Education."

• Nov. 7: Donald Cox, Ph.D., professor of economics at Boston College, will speak on "Biological Basics and Intergenerational Transfers."

• Nov. 21: Barton Hamilton, Ph.D., the Robert Brookings Smith Distinguished Professor of Entrepreneurship in the Olin School of Business, will discuss "Diversity and Productivity in Production Teams."

• Dec. 5: Anne E. Winkler, Ph.D., professor of economics and public policy administration at the University of Missouri-St. Louis, will speak on "Teen Employment: Shifting Patterns by Parental Education and Family Structure."

The series is sponsored by the Olin School, the Center for Social Development at the George Warren Brown School of Social Work, the Center for Interdisciplinary Studies in the School of Law, the Department of Economics in Arts & Sciences, the Center for Health Policy and the College of Arts & Sciences.

Robert A. Pollak, Ph.D., the Hernreich Distinguished Professor of Economics in Arts & Sciences and in the Olin School, has been the lead organizer of the series for the past eight years. The co-organizer is Michael W. Sherraden, Ph.D., the Benjamin E. Youngdahl Professor of Social Development and director of the Center for Social Development.

For more information, go online to www.olin.wustl.edu/links and click on the "Academic Seminars" link on the right-hand side.

For additional information, contact Pollak (935-4918; pollak@wustl.edu) or Sherraden (935-6691; sherrad@wustl.edu).

for Justice, and Daniel Mandelker, Howard A. Stamper Professor of Law. Anheuser-Busch Hall, Bryan Cave Moot Courtroom. 600-0647.

5:30 p.m. Center for the Study of Ethics & Human Values Ethics Debate Night. British National Debate Team vs. WUSTL Debaters. Ridgley Hall, Holmes Lounge. 935-9358.

Thursday, Sept. 29

8 p.m. Writing Program Reading Series.

Bin Ramke, poet. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

Monday, Oct. 3

7:30 p.m. Chabad on Campus Rosh Hashana Graduate Student Dinner. 7240 Forsyth Blvd. 721-2884.

Thursday, Oct. 6

8 p.m. Writing Program Reading Series. Bonnie Jo Campbell, author. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

Byrnes

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responsible for leading one of our most important and successful efforts associated with the founding of the Department of Bio-medical Engineering.

"Further, Chris has made remarkable progress in faculty recruiting while also maintaining an exceptionally productive and high-quality research program of his own."

In announcing his plans to step down, Byrnes said, "I could not be more proud of the faculty and students in the School of Engineering & Applied Science, and I am grateful for the generous support of alumni, parents and friends who have contributed to the success of this program."

Wrighton will soon appoint an advisory committee to recommend successors.

Byrnes will continue as a faculty member of the School of Engineering & Applied Science. He will have a sabbatical leave for the academic year 2006-07.

Byrnes became dean of the engineering school on July 1, 1991, and oversees approximately 1,100 undergraduate students, 750 graduate students and 85 faculty members. He joined the faculty as professor of systems and control and chair of the Department of Systems Science and Mathematics in 1989.

Byrnes is only the eighth dean the School of Engineering & Applied Science has had since 1870, and the third-longest in tenure. He succeeded James S. McKelvey, Ph.D., senior professor of chemical engineering, who was dean from 1964-1991.

As dean, Byrnes has ushered in many innovations and strengthened ties and activities with alumni. Undergraduate applications climbed from 1,400 in 1994 to nearly 3,400 in 2005, at a time of declining national enrollments in engineering.

The school has developed an internationally recognized research program in networking and telecommunications and started a very popular and highly renowned Department of Bio-medical Engineering in 1997. In 2000, the interdisciplinary Environmental Engineering Science Program was started at the University.

In 1993, the University of Missouri-St. Louis/Washington University Joint Undergraduate Engineering Program was begun.

At the time, the innovative

program was the only known partnership between a public and private university to offer an undergraduate engineering degree to nontraditional students who are place-bound. The joint program appeals to a broad range of students who normally would not pursue engineering for lack of time and/or resources.

Byrnes' field is systems science and control. Among his research interests are feedback design in automatic control, nonlinear dynamics and control, and estimation and filtering.

He has applied his research over two decades in aerospace, electrical power systems, signal processing and speech synthesis, among other areas.

Byrnes is a native of New York City. He earned a bachelor's degree in mathematics from Manhattan College in 1971 and master's and doctoral degrees, also in mathematics, from the University of Massachusetts in 1973 and 1975, respectively.

He began his academic career as an instructor of mathematics at the University of Utah in 1975.

He joined the Harvard University faculty in 1978 as an assistant professor with a joint appointment in the Department of Mathematics and the Division of Applied Science. He was promoted in 1983 to associate professor on the Gordon McKay Endowment in the Division of Applied Science.

He has also taught at Arizona State University and has held visiting appointments at institutions in Europe, Japan and the former Soviet Union, as well as in the United States.

Byrnes was awarded an honorary doctor of technology by Sweden's Royal Institute of Technology in 1998. From 1986-1990, he was an adjunct professor at the institute, which is in Stockholm, and was a visiting professor there in 1985, 1991 and 2000.

In 2001, Byrnes was installed as a foreign member of the Royal Swedish Academy of Engineering Sciences.

Byrnes serves on the board of directors of several corporations and is chairman emeritus of the board of the Center for Emerging Technologies in St. Louis.

A fellow of the Institute of Electrical and Electronics Engineers, Byrnes has won numerous best-paper awards, the most recent the 2005 W.T. and Idalia Reid Prize, one of the most prestigious in the field of differential equations and control theory.

dence for optimism that the once-daily dosing schedule can be successfully implemented in developing nations. But he noted that many different factors may affect the success of the new approach in these areas.

One concern is that the brief treatment of HIV-infected pregnant women with antivirals to block mother-to-child transmission may have created reserves of drug-resistant HIV in developing nations. Although such treatment plans prevent the passage of AIDS to the infant, they often are stopped after birth, leaving versions of the virus that have begun to figure out ways of evading the drug treatments and freeing the virus to multiply in the mother.

Scientists are also planning to look for signs that genetic differences in other nations alter patients' responses to medications.

Economic feasibility will also be a concern. Many developing nations have large numbers of AIDS patients to treat but few resources. Also, the drugs that can be taken once daily tend to be among the most expensive treatments.

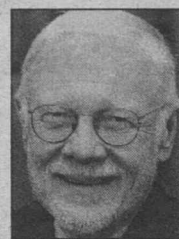
Historian Butler to speak for Assembly Series

By KURT MUELLER

Eminent Yale University historian Jon Butler, Ph.D., will give the Thomas Fulbright Lecture for the Assembly Series at 11 a.m. Sept. 28 in Graham Chapel. His talk is titled "The Miracle of Religion in Modern American History."

His research subjects cover considerable depth and breadth including the Huguenot diaspora, Jewish life in early America, Africans' religions, Protestant success in America, religion in the revolutionary age, Keithians, Catholicism, witchcraft, magic and astrology.

Among his books are *The Origins of American Denominational Order*; *The Huguenots in America: A Refugee People in New World Society*; *Awash in a Sea*



Butler

of Faith: Christianizing the American People; and *Becoming American: The Revolution Before 1776*. He has also written a book for adolescent readers, *Religion in Colonial America*.

Butler is the Howard R. Lamar Professor of American Studies and dean of the Graduate School of Arts and Sciences at Yale. He earned a bachelor's degree and a

doctorate from the University of Minnesota.

Assembly Series talks are free and open to the public. For more information, call 935-4620 or go online to assemblyseries.wustl.edu.

Words of Choice production presented today

By ANDY CLENDENNEN

With political rhetoric heating up and the issues of freedom of choice and privacy at the forefront of many discussions, along comes a production that addresses many of these issues.

The Performing Arts Department and the Program in Women and Gender Studies, both in Arts & Sciences, are presenting *Words of Choice*, labeled as "dynamic pro-choice theater."

The performance will be at 4 p.m. today in the Women's Building Formal Lounge.

Created by Cindy Cooper and directed by Joan Lipkin, artistic director of That Uppity Theatre Company, *Words of Choice* describes the real-life effects of policies.

The stories — passionate, comic and dramatic — in *Words of Choice* address many topics, such as emergency contraception, sexual assault, unintended pregnancy, abstinence education, fetal anomalies, abortion and scare tactics against women.

The dozen short pieces in *Words of Choice* touch upon a wide panorama of modern lives.

In one serious piece, a father describes his feelings after learning of his daughter's rape; in another, a woman learns of severe fetal anomalies.

In a comic piece written by actress Kathy Najimy, two adventurous 30-somethings seek confessional forgiveness for their sins, and in a satirical selection from the publication *The Onion*, a publicist announces the release of the exciting morning-after burrito.

Barbara Baumgartner, Ph.D., associate director of Women and Gender Studies, will facilitate a post-show discussion that will include Lipkin and Allison Gee, political director of Planned Parenthood St. Louis.

Writings include works by Angela Bonavoglia, Judith Arcana, Harry Blackmun, Kathleen Tolan, Alix Olson, Emily Lyons, Sherica White, Michael Quinn, Emilie Townes and Gloria Feldt.

Cooper is an award-winning

playwright and journalist in New York City. Her plays have been produced in New York, regional theaters, Canada and parts of Europe, including at the Women's Project, Primary Stages, Art and Work Ensemble, the Women's Project in Minneapolis, Venus Theater and elsewhere.

Among her works is *How She Played the Game*, about six women in sports history. A member of the Dramatists' Guild, Cooper's plays are contained in 11 volumes, including *Great Monologues for Women* and *On The Edge*.

With a background as a lawyer, she was communications director in the field of reproductive justice; she first created *Words of Choice* in 2000.

"We need many more safe spaces for strangers and neighbors and even mothers and daughters to talk," Cooper writes on the production's Web site, wordsofchoice.org. "Spoken-word cafés. Church basements. Dormitories where five friends sit down and discuss. Tupperware-style house parties. Art galleries, bookstores, after-hours groups at doctors' offices.

"And our leaders need to sit in. Away from polls and focus groups and message-makers, they need to open new conversations with the people who need Roe, even if they don't know about it. No one owns the subject of reproductive freedom, and we are all immigrants to this strange new landscape where no one talks.

"We urgently need to learn from one another. Let the dialogues begin."

Stop signs installed on Snow Way

In an effort to enhance pedestrian safety for faculty, staff and students crossing Snow Way Drive at The Village, stop signs have been installed on Snow Way adjacent to the existing crosswalk at the east end of The Village.

East- and westbound drivers on Snow Way will be required to stop at the crosswalk between Millbrook Apartments and The Village.

Drivers are reminded:

- Stop for pedestrians in crosswalks on campus.
- The speed limit along Snow Way Drive and other campus roadways is 15 mph.
- Pedestrians are reminded:**
- Always walk on the sidewalk.
- Cross only at corners or marked crosswalks.
- Stop and look both ways before crossing.
- Obey traffic signals.

Mars

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soil and formed these highly oxidized coatings.

Trench-digging rover

During its traverse from landing site to the Columbia Hills, *Spirit* dug three trenches, allowing researchers to detect relatively high levels of magnesium sulfate comprising more than 20 percent of the regolith — soil containing pieces of small rocks — within one of the trenches, the Boroughs trench.

The tight correlation between magnesium and sulfur indicates an open hydrologic system — these ions had been carried by water to this site and deposited.

Spirit's fellow rover, *Opportunity*, earlier had detected a history of water at another site on Mars, Meridiani planum. This study (by Haskin et al.) covered the investigation of *Spirit* rover sols (a sol is a Martian day) 1 through 156, with the major discoveries occurring after sol 80.

After the findings were confirmed, *Spirit* traversed to the Columbian hills, where it found more evidence indicating water.

Today — sol 614 for *Spirit* on Mars, or 631 Earth days — the rover is continuing its investigation on the summit of Husband Hill, including some detailed mineralogy and geochemical studies on rock, soil and drift. *Spirit* is

talking huge amount of photos in all directions, to take advantage of the rover now being at its highest elevation of the whole mission.

"We will stay on the summit for a few weeks to finish our desired investigations, then go downhill to explore the south inner basin, especially the so-called 'home-plate,' which could be a feature of older rock or a filled-in crater," Wang said.

"We will name a major geo-feature in the basin after Larry," she added.

Wang, Haskin, their WUSTL colleague Raymond E. Arvidson, Ph.D., the James S. McDonnell Distinguished University Professor and chair of earth and planetary sciences, and Bradley Jolliff, Ph.D., research associate professor in earth and planetary sciences, and more than two dozen collaborators from numerous institutions reported their findings in a recent issue of *Nature*.

The paper was the last one that lead author Haskin, a highly regarded NASA veteran and former chair of earth and planetary sciences at WUSTL, submitted before he died.

Soil involved with water

"We looked closely at the multiple layers on top of the rock Mazatzal because it had a very different geochemistry and mineralogy," Wang said. "This told us that the rock had been buried in the soil and exposed and then buried again several times over the history. There are chemical

changes during the burial times, and those changes show that the soil had been involved with water.

"The telltale thing was a higher proportion of hematite in the coatings. We hadn't seen that in any previous Gusev rocks.

"Also, we saw very high chlorine in the coating and very high bromine levels inside the rock. The separation of the sulfur and chlorine tells us that the deposition of chlorine is affected by water."

While the multilayer coatings on rock Mazatzal indicates a temporal occurrence of low-quantity water associated with freezing and melting of water, the sulfate deposition at trench sites indicates the involvement of a large body of water.

"We examined the regolith at different depths within the Big Hole and the Boroughs trenches and saw an extremely tight correlation between magnesium and sulfur, which was not observed previously," Wang said. "This tells us that magnesium sulfate formed in these trench regoliths.

"The increasing bromine concentration and the separation of chlorine from sulfur also suggests the action of water. We don't know exactly how much water is combined with that.

"The fact that the magnesium sulfate is more than 20 percent of the examined regolith sample says that the magnesium and sulfur were carried by water to this area from another place, and then deposited as magnesium sulfate. A certain amount of water would be needed to accomplish that action."

AIDS

Trial sites include India, Zimbabwe & Malawi

— from Page 1

a day, that's plausible," Clifford said. "If they have to go four times a day, that's hopeless."

In the early days of AIDS drugs, one of the first successful treatments required patients to take a dose every four hours. Current AIDS drugs either contain larger doses, take advantage of strategies that release the medication into the body more slowly or incorporate features into the medicine itself that slow its clearance from the body.

Researchers administering the study are seeking AIDS patients who either have not yet been treated with antiviral medications or have had less than a week of such treatments.

Sites for the trial include South Africa, Zimbabwe, Thailand, India, Malawi, Peru and Brazil.

Clifford said there is evi-

Notables

Obituary: William C. Jones, Nagel professor emeritus in law school

William C. Jones, J.S.D., the Charles F. Nagel Professor Emeritus of International and Comparative Law, died Friday, Sept. 16, 2005, after a brief illness. He was 79.

Jones was an internationally acclaimed scholar on Chinese law. He translated the last major imperial Chinese legal code — *The Great Qing Code* — and the first precursor of the civil code of the People's Republic of China — the *General Principles of the Civil Law*.



Jones

Jones also authored a popular legal reference book *Basic Principles of Civil Law in China*.

"Bill Jones was a quintessential scholar, a dedicated teacher and a wonderful colleague," said Dorsey D. Ellis Jr., J.D., the William R. Orthwein Distinguished Professor of Law.

"He was self-effacing, soft-spoken and considerate of others. Everyone who knew him considered him a friend."

Jones joined the School of Law in 1955 as an assistant professor. During his 40 years teaching at the

University, Jones served as a lecturer for the International Association for Teaching Comparative Law, a visiting professor or scholar at universities around the world, and a Fulbright lecturer at Wu Han University in China.

Prior to his appointment at the University, Jones was a research associate at the University of Chicago and an attorney for the U.S. Department of the Interior. He earned an LL.B. from Harvard Law School, and an LL.M. and doctorate of juridical science from the University of Chicago.

Outside Washington University, Jones was a devout member of the Church of Christ, Scientist. He also enjoyed attending cultural events around St. Louis with his wife, Jean Engstrom Jones.

A memorial service will be held Sept. 24 in the Bryan Cave Moot Courtroom of Anheuser-Busch Hall.

The Whitney R. Harris Institute for Global Legal Studies also will host a public memorial event during its Nov. 11 workshop on Chinese law. This workshop will feature the inaugural William Catron Jones keynote address.



Oral histories Students and faculty from the Film & Media Studies Program in Arts & Sciences recently teamed up with the owners of McNeil's Hair Studio, 2619 S. Big Bend Blvd., to create an archive of African-American oral histories. Joseph McNeil, who runs the studio with his wife, Rochelle, gave free haircuts to patrons 55 and over in exchange for their stories, recollections and words of encouragement. McNeil noted that the project "is simply our way of giving back for their many sacrifices and struggles for equality." Pictured (from left) is Senior Lecturer Pier Marton, who sets up a camera while junior Jonathan To places a microphone on participant Vivian LeVora-Whitley.

Campus Authors

Lee Epstein, Ph.D., the Mallinckrodt Distinguished University Professor of Political Science in Arts & Sciences and Professor of Law

Advice and Consent: The Politics of Judicial Appointments

(Oxford University Press, 2005)

Advice and Consent: The Politics of Judicial Appointments, a new book co-authored by Washington University's Lee Epstein, hits the bookstores this month just in time to shed light on the vetting of President Bush's nominees for two seats on the U.S. Supreme Court.

While some have warned that the president may use this opportunity to pack the High Court with conservative-leaning justices, Epstein's book offers evidence that a president's ability to perpetuate personal political legacies through court appointments tends to be both short-lived and unpredictable.

"During the first four years of justices' tenure, their voting behavior correlates at a rather high level with their appointing president's ideology, but for justices with 10 or more years of service, that relationship drops precipitously," suggests Epstein, Ph.D., the Edward Mallinckrodt Distinguished University Professor of Political Science in Arts & Sciences and Professor of Law.

"In other words, liberal presidents appoint liberal justices who continue to take liberal positions for a while. Ditto for conservatives. But as new issues come to the Court, or as the justice for whatever reason makes adjustments in his or her political outlook, the president's influence wanes."

Epstein's book is co-authored by Jeffrey Segal, the SUNY Distinguished Professor and Chair of Political Science at Stony Brook University.

Epstein and Segal trace the politics of the judicial nomination process through more than 200 years of American history,



ADVICE and CONSENT

THE POLITICS OF JUDICIAL APPOINTMENTS

LEE EPSTEIN and JEFFREY A. SEGAL

providing an anecdote-rich analysis of issues behind the institution's origin and evolution.

The book offers a concise primer on all aspects of the judicial nomination process, exploring how the nomination process is influenced by special interest groups, the news media and the American Bar Association, and how presidents and the senate often have tried to remake the bench.

In a recent American Prospect magazine book review, writer Sam Rosenfeld describes Advice and Consent as a timely new book written "in pristine, jargon-free language." He credits the book with clearly demonstrating that modern era of politicized nomination battles is nothing new.

"Epstein and Segal use histori-

cal illustrations and the latest quantitative methods to inject some much-needed context and evidence into the current debate about judicial appointments," Rosenfeld writes. "The book covers Supreme Court nominations and those for the lower federal courts, systematically analyzing the effect of political considerations on the timing of vacancies, the selection of nominees, the confirmation process in the Senate, and the long-term ideological balance of the courts."

Epstein and Segal offer numerous anecdotes supporting their contention that president's "can't always get

what they want" in their attempts to appoint seemingly like-minded judges and justices. But they also provide readers with sophisticated statistical analyses showing that these mistakes are few and far in between.

"This is a superb and even indispensable resource," suggests Cass R. Sunstein, a Supreme Court scholar at the University of Chicago Law School. "Careful, precise, objective, and nugget-filled, it's a wonderful guide to past, present, and future debates. If you want to know about judicial appointments, this is the best place to start."

—Gerry Everding

Lori Watt named fourth Harbison faculty fellow

Lori Watt, Ph.D., assistant professor of history and of International and Area Studies, both in Arts & Sciences, has been named the fourth Earle H. and Suzanne S. Harbison Faculty Fellow. The fellowship provides research and teaching support for three years to a talented junior faculty member in Arts & Sciences.

"I am delighted to recognize Lori Watt with this fellowship and to support the development of her career," said Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor of Arts & Sciences. "Her interests and ideas bring exactly the sort of excitement to Washington University that we had hoped when the fellowship was conceived. Senior faculty are especially impressed with Professor Watt's interest in interdisciplinary collaboration and look forward to working with her."

Watt said she is delighted that the fellowship will allow her to do research in Japan, China and Korea in support of her writing on East Asian history.

"But the real pleasure was in the recognition from the University," she said. "It was nice to learn that Washington University appreciates the kind of contributions I am able to make."

"The award is also significant in that it creates a more direct connection between supporters of the University like the Harbisons and individual faculty members."

Watt joined the Arts & Sciences faculty in 2004.

She earned a bachelor of arts in international studies in 1988 from Reed College in Portland, Ore., a master of arts in modern Japanese history in 1996 from Ochanomizu University in Tokyo and a doctorate in modern East Asian history in 2002 from Columbia University.

Prior to joining the WUSTL

faculty, Watt was a postdoctoral fellow at Harvard University's Reischauer Institute for Japanese Studies and held a one-year position teaching Japanese history at Yale University.

Her research explores the dismantling of the Japanese empire after World War II and the transition of East Asia from an imperial to a Cold War formation.

Watt's courses focus on East Asian history and historiography, empire and decolonization, nations and nationalism, and migration. Watt, who is fluent in Japanese and research-capable in Chinese, also teaches an increasingly popular "Crossing Borders" course in International and Area Studies.

She is a member of the American Historical Association, the Association of Asian Studies and the Contemporary Japanese History Workshop.

The faculty fellowship was established in 1995 by Earle H. Harbison, who graduated from Washington University

in 1948 with a bachelor's degree in political science, and his wife, Suzanne Siegel Harbison, who earned a degree from the John M. Olin School of Business in 1949.

Earle Harbison is chairman of Harbison Corp. and past president and chief operating officer of Monsanto Co. He is chair of the Arts & Sciences National Council and an emeritus trustee on the University's Board of Trustees.



Watt

Notables policy

To submit Notables for publication in the *Record*, e-mail items to Andy Clendennen at andyc@wustl.edu or fax to 935-4259.

Washington People

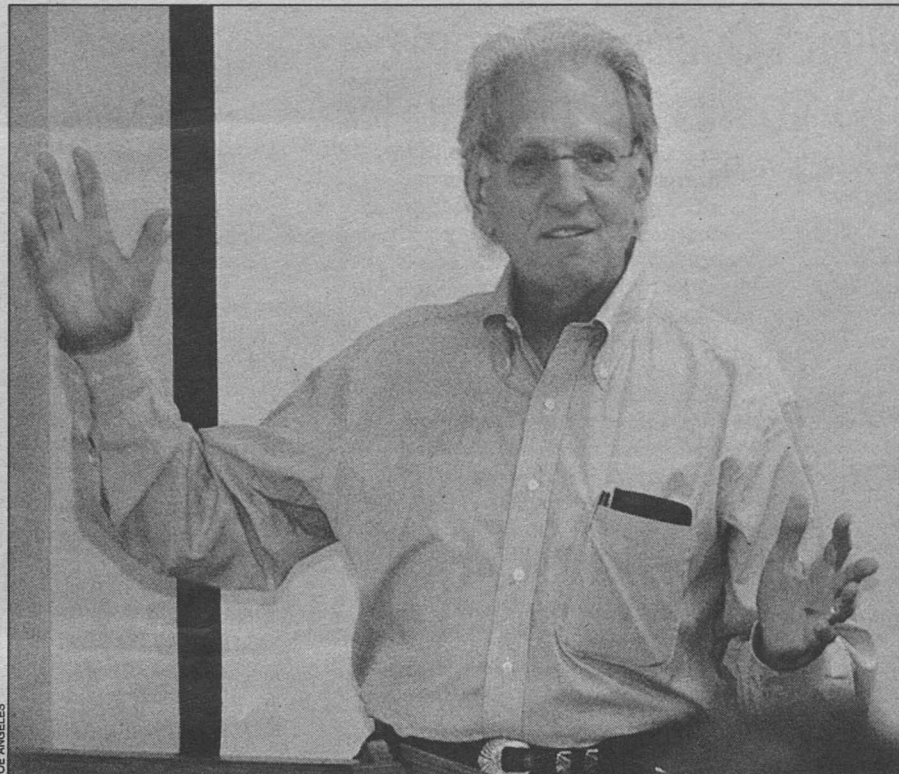
The first time Jerry Sincoff designed a house, he failed. Literally.

As a ninth-grader at Hanley Junior High in University City, Sincoff — a voracious draftsman with an affinity for buildings and rocket ships — was required to enter the inaugural Greater St. Louis Science Fair. Instead of a science display, he submitted a conceptual drawing for a small private residence.

"I got an 'F' because it was supposed to be a science project," recalls Sincoff, now dean of Architecture for the Sam Fox School of Design & Visual Arts, with a laugh. "I didn't fail the course. Just that assignment."

Ironically, as a project manager and later president and chief executive officer of Hellmuth, Obata & Kassabaum Inc. (HOK), the world's largest architecture firm, Sincoff would oversee design of the National Air and Space Museum in Washington, D.C., arguably the most successful science display ever created.

Other projects would include corporate headquarters for Kimberly-Clark, Pillsbury, Kellogg's,



Despite retiring in 2001, Jerome Sincoff remained a consultant for HOK and had even served a term as president of The Saint Louis Art Museum's Board of Commissioners. Then, as 2004 was winding down, Chancellor Mark S. Wrighton called Sincoff to fill him in on the changes taking place at the schools of Architecture and Art. The rest is a still-forming history.

Space Museum," Sincoff points out.

Though retired since 2001, Sincoff remained a consultant for HOK and had even served a term as president of The Saint Louis Art Museum's Board of Commissioners. Still, by the end of 2004 things were finally slowing down. Then, a week before Christmas, the phone rang. It was Chancellor Mark S. Wrighton.

"He said, 'Jerry, if you're standing up, perhaps you should sit down ...'"

Longtime architecture dean Cynthia Weese was re-joining her firm in Chicago. Architecture and Art — previously Washington University's smallest units — were forming the Sam Fox School, along with the Mildred Lane

Kemper Art Museum. Two new buildings by renowned architect Fumihiko Maki were under construction, part of a \$56.8 million improvement to art and design facilities.

Sincoff, who remained deeply involved with his alma mater, was a savvy choice to follow Weese. The former Ethan A.H. Shepley Trustee, he had chaired the Alumni Board of Governors; chaired the Architecture National Council; and co-chaired the Sam Fox School's capital campaign.

He certainly possessed the requisite managerial skills and had even been the driving force behind HOK University, the company's award-winning continuing education program.

"I felt that perhaps I could bring something helpful to this transitional period," Sincoff explains, noting that Architecture — like HOK and, indeed, the profession in general — has grown ever more international in scope and collaborative in nature.

Where architects once designed buildings for local clients, they now compete worldwide for projects that increasingly integrate architectural, landscape and planning perspectives.

In July, Sincoff formally took the reins as dean of the College of Architecture and Graduate School of Architecture & Urban Design.

He has been particularly impressed by the large numbers of undergraduate and graduate students from Asia, Europe and Latin America, and by Architecture's recent launch of studios in Barcelona, Buenos Aires, Florence, Helsinki, Tokyo and New York.

"When I was a student, we had maybe two or three people from outside the Midwest," Sincoff muses. "Our students are from everywhere now."

"We're bursting at the seams."

From designing to developing projects

Renowned designer Jerry Sincoff returns to his roots to lead Architecture

By LIAM OTTEN

Mobile, BP and Bristol-Myers Squibb. In St. Louis, Sincoff led the \$150 million renovation of historic Union Station and developed headquarters for Nestle Purina, the American Zinc Co., and Community Federal Savings & Loan (the latter building now home to Edward Jones), among others.

In 2004, he was inducted into the University City High School Hall of Fame.

Sincoff was born at St. Mary's Hospital on Clayton Road, less than a mile due south of his current office in Givens Hall. His mother, Elma, sold dresses for Famous Barr downtown. His father, Morris, was "a classic traveling salesman," marketing curtains and drapes for a firm in Washington Avenue's bustling textiles district.

The young family lived in a third-story walk-up just east of the Hi-Pointe Theatre but moved to University City when Sincoff was in third grade. He drew constantly as a boy, to the point of being scolded for not properly minding other lessons. In high school, he took every design class offered, from art and shop to mechanical drawing.

"I was very alert visually, especially about things that were built," Sincoff muses. "I liked them. I appreciated them. I thought they were interesting."

During his senior year, Sincoff entered a regional design competition sponsored by the St. Louis Home Builders Association. Top prize? A scholarship to Washington University's School of Architecture. Amazingly, Sincoff won and two classmates placed second and third. (One of

them, William Stewart, also became a noted architect.)

Sincoff arrived on campus in 1951. He was soon impressed by the legendary Buckminster Fuller, a visiting professor of architecture, and spent much of his sophomore year helping to construct a collapsible wooden version of Fuller's famous geodesic dome.

"We were actually able to do it," Sincoff recalls. "It took a long time, the shop was very busy and one person lost a finger, but we got the thing built. It worked and it was spectacular."

Another influence was future architecture dean Joseph Passonneau, who arrived Sincoff's senior year. "The first day of classes, a couple of us were in the studio playing chess when this guy walks up and asks for a game." It was Passonneau. "He won in about 10 moves."

Yet the early '50s were also the height of the Korean War and Sincoff, hoping to become a pilot, enlisted in the Air Force ROTC. Upon finishing his degree, in 1956, he reported to camp but was transferred to the Army's Air Defense Command because of an asthma condition. After training at Fort Bliss, Texas, he was stationed in Chicago, one of three officers commanding a small air defense missile battery.

"We were all kids — 21, 22 years old. It was a lot of responsibility but we worked as a team; it was really great training." Plus, Sincoff adds with a smile, "we had a perfect record. Not one bomb was dropped on Chicago while I was there."

Discharged in 1959, Sincoff found work — despite a lingering recession — at Russell, Mullgardt, Schwarz & Van Hoefen, an old St. Louis architecture firm. He joined HOK in 1962 after interviewing with design principal Gyo Obata (B.Arch '45), who had co-founded the partnership in 1955 with George Hellmuth, George Kassabaum and 26 employees.

Sincoff started in design but soon realized that he was better suited to the role of project architect, or "job captain," as it was then called.

"Frankly, I saw other fellows who were better designers," Sincoff admits. "But I found that I had the ability to take these ideas and carry them to completion. Basically, I went from designing projects to developing projects."

Sincoff's first major assignment was for the campus of Southern

Illinois University-Edwardsville, which he spent two years working on and which opened in 1965. Subsequent projects included the stainless steel-clad American Zinc building (now part of the Drury Plaza Hotel) and the Boatman's Bank headquarters. He spent two years in Los Angeles developing the firm's first high-rise, 1901 Avenue of the Stars.

In 1972 Sincoff took over the National Air and Space Museum, which HOK had designed in 1964 but which still awaited Congressional funding.

"The budget was \$40 million," Sincoff explains. Unfortunately, "from '64 to '72 the inflation rate was so staggering that, by the time funding was approved, we had to start design all over again." Nevertheless, construction was completed in 1975, "on budget and on schedule," and the building opened July 4, 1976. Virtually overnight, it became the world's most-visited museum facility.

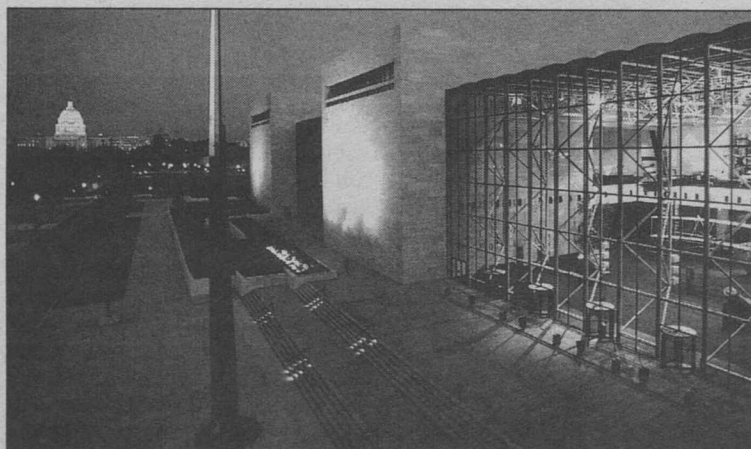
In the early 1980s, Sincoff led renovation of St. Louis Union Station, then the largest adaptive re-use project in the United States. Closed in 1978, the station had fallen into such disrepair that portions were used as sets for the apocalyptic thriller *Escape From New York* (1981). When it reopened in 1985, Union Station housed dozens of shops, restaurants, offices, a lake, a public plaza and a 500-room hotel.

Meanwhile, Sincoff was emerging as a key member of HOK's senior leadership team, rising from project architect to vice president, office-managing principal and corporate vice chairman.

It was an exciting time for the company, whose first international offices, in London and Hong Kong, opened in 1984. Today HOK employs more than 1,700 throughout North America, Latin America, Europe and Asia.

Sincoff, who was named president and CEO in 1990, ascribes the expansion to a variety of factors: Obata's keen internationalism; Hellmuth's ideas about architectural firm organization; Kassabaum's management talents; a developing specialty in sports architecture. Perhaps most importantly, HOK established long-term relationships with major clients like Nortel, ExxonMobile, Bristol-Myers Squibb and others. As they grew, so did HOK.

"No other firm has ever designed a project for the Air and



Sincoff served as project manager for the Smithsonian's National Air and Space Museum. Virtually overnight, it became the world's most-visited museum facility.