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Record

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Volume 29 No. 30



Washington University in St. Louis

McDonnell, Fox receive Search Award

BARA REA

The William Greenleaf Eliot Society's highest honor, the Search Award, was presented to John F. McDonnell and Sam Fox at the 38th annual Eliot Society dinner April 13 at The Ritz-Carlton in Clayton.

The Search Award is presented to outstanding citizens of the University community in appreciation for their contributions to Washington University.

Both men received a silver replica of *The Search*, a sculpture designed by Heikki Seppa, professor emeritus in the School of Art, part of the Sam Fox School of Design and Visual Arts.

During the presentation, Chancellor Mark S. Wrighton said, "It is an honor to present the 2005 Eliot Society Search Award to two individuals who have given so much of themselves to Washington University."

"Both John and Sam raised our aspirations for what we would be able to accomplish in the campaign. They brought to their leadership positions a rare combination of pragmatism and optimism that inspired our other dedicated volunteers and energized our administrators and staff."

McDonnell served as chair of the leadership phase of the Campaign for Washington University, and Fox chaired the public phase.

When the campaign ended June 30, it had received \$1,551,350,170, well beyond the stated goals.

Wrighton noted that this devotion, confidence and hard work are typical of both Fox and McDonnell, and that "... their service to Washington University goes far beyond the campaign."

Indeed, both Fox and McDonnell have substantial tenure



(From left) John F. McDonnell, Chancellor Mark S. Wrighton and Sam Fox share a laugh at the 38th annual William Greenleaf Eliot Society dinner April 13 at The Ritz-Carlton. McDonnell, who served as chair of the leadership phase of the Campaign for Washington University, and Fox, who chaired the campaign's public phase, were presented with the Search Award, the Eliot Society's highest honor.

in leadership positions, including many years of service on the Board of Trustees and national councils. Both have not only contributed significantly to specific University projects, but also have been effective in inspiring fund-raising for many other projects.

Both have made generous leadership gifts to the campaign.

McDonnell is the retired chairman of the Board of McDonnell Douglas Corp., and currently is a director of The Boeing Co. and Zoltek Companies Inc. He was at the helm of McDonnell Douglas during the merger with Boeing, creating the nation's

largest aerospace company.

He is a former chairman of the Federal Reserve Bank of St. Louis. In 2004, he was elected to the American Academy of Arts & Sciences.

Now a Life Trustee, McDonnell joined the WUSTL Board of Trustees in 1976 and served as chairman from 1999-2004; he now serves as vice chair. He and his wife, Anne, are Life Danforth Circle members of the Eliot Society.

Other significant WUSTL leadership positions include serving as a member of the Arts & Sciences National Council; helping to found and serving as a member of

the International Advisory Council for Asia; serving on the Capital Resources Committee for the Alliance Campaign; and working on Arts & Sciences' capital campaign to construct James S. McDonnell Hall.

A major advocate for science education and research, McDonnell is a board member of the Donald Danforth Plant Science Center and co-chair of the committee on capital formation for the Coalition for Plant and Life Sciences. His passion extends also to the St. Louis Science Center, where he is a Life Trustee and past chairman of its board of

See Award, Page 6

Fat may affect electrical impulses in brain, heart

BY GWEN ERICSON

Fatty molecules may modulate the electrical characteristics of nerve and heart cells by regulating the properties of key cell pores, according to School of Medicine research.

The findings suggest a novel mechanism in which dietary fat can attach directly to proteins that regulate bioelectricity. This can affect the performance of nerve and heart cells, with potentially broad-ranging health implications.

The researchers report in the April 26 issue of the *Proceedings of the National Academy of Sciences* that the proteins in specific electrically responsive cell pores — voltage-sensing potassium channels — can bind to molecules of palmitate.

Palmitate is a saturated fatty acid previously linked to hardening of the arteries and obesity and is a common fat in unhealthy diets.

"In effect, the attachment of palmitate makes these potassium channels, called Kv1.1 channels, open more easily, and this can influence the transmission of electrical impulses along nerve cells and the contraction of heart muscle cells," said senior author Richard Gross, M.D., Ph.D., professor of medicine, of chemistry in Arts & Sciences and of molecular biology.

See Impulses, Page 6

Researchers find carriers of astronomical extinction line in presolar grains

BY TONY FITZPATRICK

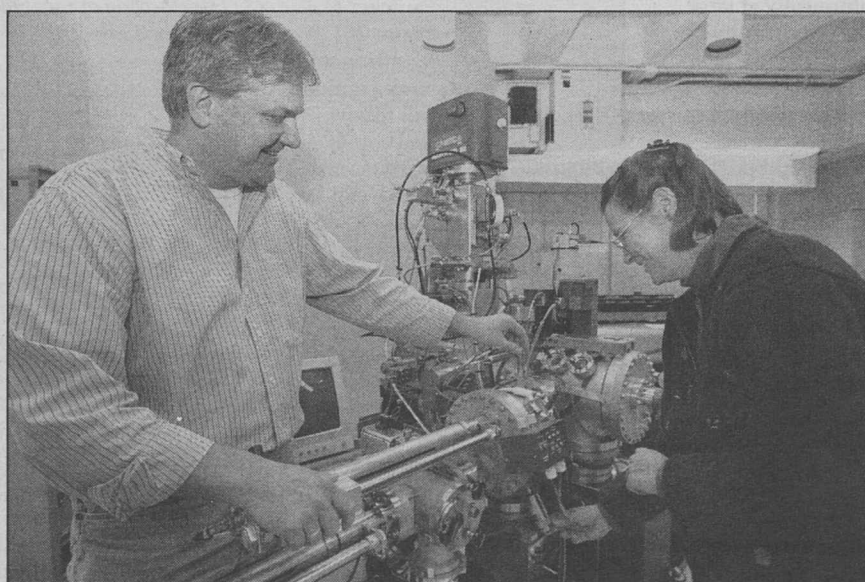
A collaborative team of researchers has discovered what turns the lights out from space.

Using sophisticated features on a transmission electron microscope, John P. Bradley, Ph.D., director of the Institute for Geophysics and Planetary Physics at Lawrence Livermore National Laboratory, has discovered that organic carbon and amorphous silicates in interstellar grains embedded within interplanetary dust particles (IDPs) are the carriers of the astronomical 2175 Å extinction line.

Discovered by astronomers more than 40 years ago, the astronomical extinction line occurs at a wavelength of 2175 Angstroms, blocking light from stars from reaching Earth due to the absorption of light by dust in the interstellar medium. One Angstrom (Å) is one one-hundred millionth of a centimeter.

Bradley analyzed interstellar grains from WUSTL's Laboratory for Space Sciences to make the discovery.

Last year, Frank Stadermann, Ph.D., senior research scientist in physics, and Christine Floss, Ph.D., senior research scientist in earth and planetary sciences and physics, both in Arts & Sciences, reported that some grains



Husband-and-wife research team Frank Stadermann, Ph.D., and Christine Floss, Ph.D., examine the NanoSIMS in Compton Hall; their recent *Science* paper marks the fifth one in four years in that journal detailing a NanoSIMS discovery.

within IDPs are presolar in origin.

They used a unique instrument called the "NanoSIMS" — a type of secondary ion mass spectrometer — to measure the isotopic composition of the grains to determine these findings.

The NanoSIMS enables researchers to analyze particles at much higher spatial resolution than before, allowing them to find the small presolar grains within the dust particles. Until recently,

ion microprobes could only analyze dozens of such sub-grains at one time and so were able to deduce only the average properties of a sample.

The findings were reported in a recent issue of *Science*. Since 2001, discoveries using the NanoSIMS at WUSTL have appeared in five papers published in that journal.

Collaborators on the discovery include

See Space, Page 6

Students end hunger strike; sit-in continues

On April 20, Chancellor Mark S. Wrighton talked briefly with the Student Worker Alliance protestors to reiterate that he is prepared to meet with them after they discontinue their sit-in at South Brookings Hall and Brookings Quadrangle — as previously agreed.

He also told them that the University has begun to implement its plan to address the issues they have raised and hoped they would become part of this process. This process started April 19 with an initial meeting of University employees who have responsibility for working with service contractors.

On April 16, Wrighton met directly with four student representatives for the students conducting the sit-in at South Brookings Hall and Brookings Quadrangle.

Conditional on the students' agreement to immediately end their hunger strike and sit-in, the group had reached an understanding on several issues, including resources, future meetings and the resolution of sanctions for violations of the University's Judicial Code.

The four students agreed to both the terms of the discussion and the predetermined conditions for going forward with the understanding that had been reached.

However, others outside of the meeting took the position that they could further alter this agreement and yet still receive the new propos-

See Sit-in, Page 6

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Weil to be honored in symposium today

The Department of Art History & Archaeology in Arts & Sciences will present "Exploring the History of Art," a symposium honoring Mark S. Weil, Ph.D., at 2:30 p.m. today in the Women's Building.

Weil, the E. Desmond Lee Professor for Collaboration in the Arts as well as director of the Sam Fox Arts Center and Mildred Lane Kemper Art Museum, is retiring in June. He has been associated with the University for 47 years, earning an undergraduate degree in art history & archaeology in 1961 and joining the faculty (after earning a doctorate at Columbia University) in 1968.

The symposium will open with remarks from Chancellor Mark S. Wrighton and Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences. An introduction will then be made by William E. Wallace, Ph.D., the Barbara Murphy Bryant Distinguished Professor and chair of art history & archaeology.

Subsequent presenters — all former students and colleagues of Weil's — include:

- David Butler, Ph.D., director of the Ulrich Museum of Art at Wichita State University;
- C.D. Dickerson, a doctoral candidate at New York University;
- Felicia Else, Ph.D., assistant professor of visual arts at Gettysburg College;
- Francesca Herndon-Consagra, Ph.D., curator of prints, drawings and photographs for the Saint Louis Art Museum (SLAM);
- Judith Mann, Ph.D., curator of early European art for SLAM;
- Lisa Pon, Ph.D., assistant professor at Southern Methodist University; and
- Carol Purtle, Ph.D., professor at the University of Memphis.

Weil, a native St. Louisan, has been actively involved in both the university and greater St. Louis communities. He chaired art history & archaeology for a total of 10 years and served two terms as a SLAM trustee. In 1998, he was appointed director of the Kemper Art Museum (then the Washington University Gallery of Art) and was named director of the Sam Fox Arts Center at its inception the following year.

Weil's scholarship and teaching fall into two primary areas: Italian Renaissance and Baroque art and architecture, and art connoisseurship. Publications include important contributions to the study of 16th- and 17th-century art history, notably *The History and Decoration of the Ponte Sant'Angelo* (1974). His numerous articles have appeared in the *Journal of Garden History*, the *Bulletin of the Harvard University Art Museums* and others.

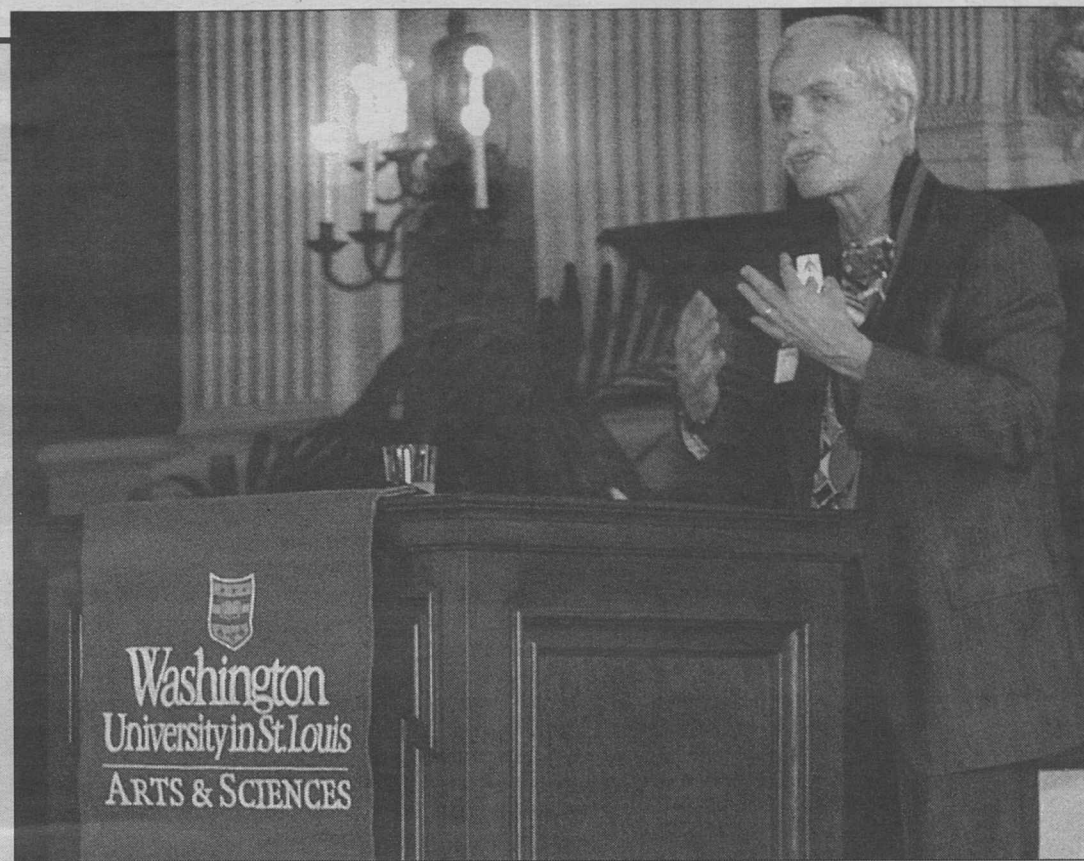
Weil's abiding passion for the study of works of art is reflected both in his teaching of connoisseurship and in his own curatorial activities. In 1982-83 he chaired the University's Baroque Festival Planning Committee, for which he organized a symposium; planned an exhibition on Baroque theater and stage design; wrote a catalog; and produced an opera (*Handel's Orlando*, directed by renowned conductor Nicholas McGegan).

In 1989, Weil co-curated (with Roger Ward) an exhibition of master drawings from the Nelson-Atkins Museum of Art in Kansas City, Mo. In 1997, he collaborated with Barbara Butts and Tom Rasseur on SLAM's exhibition and catalog *Men, Women, and God: German Renaissance Prints From St. Louis Collections*. "Exploring the History of Art" is free and open to the public. A reception will begin at 5 p.m.

For more information, call 935-9347.



Weil



McDonnell professor of physics Clifford M. Will, Ph.D., makes a presentation at his installation as the James S. McDonnell Professor of Physics in Arts & Sciences April 14 in Holmes Lounge. Will is known worldwide as one of the leading experts in using experimental and observational data to explain Einstein's general theory of relativity. The McDonnell professorship was established in 1966. Its first holder was Robert M. Walker, Ph.D., a renowned leader in the laboratory analysis of materials from interplanetary and interstellar space and the inaugural director of the McDonnell Center for the Space Sciences.

Seminars on wide range of benefits offered

BY ANDY CLENDENNEN

The Office of Human Resources offers a comprehensive benefits program to University faculty and staff, the two anchors being the health insurance and retirement savings plans.

As such, most employee seminars are designed to present and discuss the details of these two important and complex benefits.

However, there are several other important benefits plans of which University employees need to be aware.

To help employees become better informed, the human resources office is offering brown-

bag seminars to review and discuss the following benefit plans:

- Health Care Flex Spending
- Child Care Flex Spending
- Term Life Insurance
- Variable Universal Life Insurance
- Long Term Disability Insurance
- Long Term Care Insurance
- Tuition Assistance
- MOST Program

Included in the seminars will be covering the eligibility criteria, coverage options, tax savings and special features in these plans.

Also, determining whether employees are maximizing their individual returns on the Univer-

sity's benefits investment is on the agenda.

Thomas W. Lauman, director of benefits, will present sessions from noon-1 p.m. The schedule is:

- April 27, Hilltop Campus, Simon Hall, Room 109;
- April 28, West Campus, Library Conference Center, Room A/B; and
- April 29, Medical Campus, McDonnell Science Building, Erlanger Auditorium.

Reservations are not required; food is not provided; and attendees are encouraged to bring a lunch.

For more information, contact your benefits department.

Social work school to host festival

BY JESSICA MARTIN

From traditional foods to lively entertainment, students from various countries at the George Warren Brown School of Social Work will offer a taste of their homelands at the 11th annual International Festival from 5-9:30 p.m. today in Brown Hall.

The event, which is free and open to the public, will begin with an international banquet and art exhibition from 5-7:30 p.m. in Brown Hall Lounge. This year's theme is "Crossroads: Celebrating One World."

"The International Festival aims to raise awareness about the cultural diversity that exists in the School of Social Work community and to share the multiplicity of

cultures that individual students bring from the global perspective," said second-year social work student Maya Mgeliashvili, co-chair of the 2005 International Festival committee.

"The festival is dedicated to the students and community at large, who will have the opportunity to celebrate each other and the similarities they share, as well as observing and accepting differences."

The entertainment, which includes dance, song and poetry from numerous countries, will start at 7:30 p.m. in Brown Hall, Room 100.

For more information and to reserve a ticket to the cultural performances, e-mail first-year social work student Shikha Manandhar at intfestival@gwbmail.wustl.edu.

Acclaimed poet C.K. Williams will read from his work at 4 p.m. today as part of the Writing Program Spring Reading Series.

The reading is free and open to the public and will take place in Hurst Lounge, Duncker Hall, Room 201. A reception and book-signing will follow, and copies of Williams' books will be available for purchase.

Williams is the author of numerous books of poetry, including *The Singing* (2003), winner of the National Book Award; *Repair* (1999), winner of the 2000 Pulitzer Prize; *The Vigil*

(1997); *A Dream of Mind* (1992); and *Flesh and Blood* (1987), winner of the National Book Critics Circle Award.

Williams also has published five works of translation, including *Selected Poems of Francis Ponge* (1994); *Canvas*, by Adam Zagajewski (with Renata Gorczynski and Benjamin Ivry, 1991); *The Bacchae of Euripides* (1990); and *The Lark. The Thrush. The*

Starling. (Poems from Issa) (1983).

Williams' many honors include an American Academy of Arts and Letters Award, a Guggenheim Fellowship, the Lila Wallace-Reader's Digest Award, the PEN/Voelcker Award for Poetry and a Pushcart Prize. He teaches creative writing at Princeton University.

For more information, call 935-7130.



Williams

March of Dimes WalkAmerica slated for April 30

BY NEIL SCHOENHERR

More than 8,000 people are expected at the March of Dimes WalkAmerica fund-raiser April 30.

The event, co-sponsored by the University, will begin and end at Brookings Hall and will wind through Forest Park.

Celebrating its 35th year, WalkAmerica is the March of Dimes' biggest fund-raiser and brings people from all neighborhoods and all walks of life together to help fund the founda-

tion's mission. The March of Dimes has targeted raising \$1 million from the St. Louis event.

Faculty and staff are encouraged to participate or volunteer.

Registration begins at 9 a.m., and the walk begins at 9:45 a.m. Both short and long routes are available to accommodate all walkers.

After-walk activities include a stroller parade, diaper derby, baby photo contest, sack race, tug-of-war, three-legged race, horseshoes and washers competitions, and an over-under ball race.

The March of Dimes is a national voluntary health agency whose mission is to improve the health of babies by preventing birth defects and infant mortality.

Founded in 1938, the March of Dimes funds programs of research, community services, education and advocacy to save babies. In 2003, it launched a multi-year campaign to address the increasing rate of premature birth.

For more information or to register for the event, go online to walkamerica.org or call Kristin Emahiser at 646-0049.

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 Washington University in St. Louis

School of Medicine Update

Nerve-cell development explained by two theories

By MICHAEL C. PURDY

For many years, two schools of thought have dominated neurobiologists' theories about how early nerve cells develop specialties that allow the assembly of a mature brain.

One theory suggests that master regulators trigger the development of the same specialized traits in cells found across wide regions of the brain.

The other theory attributes the development of specialized traits to interactions between many local factors.

In a new study of developing fruit fly brain cells, scientists at Washington and Harvard universities showed that both models are valid and active. Surprisingly, they both



Taghert

appear to operate within single developing nerve cells.

By learning more about the most basic mechanisms that regulate the creation of the brain, scientists hope to gain new insights into developmental disorders that damage it.

"We really have to consider individual cell properties and the complexity of the mechanisms that underlie these properties," said Paul H. Taghert, Ph.D., professor of anatomy and of neurobiology.

"Our system in the fruit fly lets us look at these factors at the level of individual cells, but even at that level the harder you push, the more you uncover the complexity that underlies these developmental systems."

Specialization of nerve cells is essential to normal brain function. All neurons have certain properties in common. But as scientists have focused more closely on individual nerve cells, many variations have emerged.

"Some cell types have arms that are just a simple extension with a few branches, but some of them have quite an elaborate

"Our system in the fruit fly lets us look at these factors at the level of individual cells, but even at that level the harder you push, the more you uncover the complexity that underlies these developmental systems."

PAUL H. TAGHERT

branching pattern," Taghert said. "The individual chemistries of these different types of nerve cells — the substances known as neurotransmitters that they emit, for example — also vary tremendously."

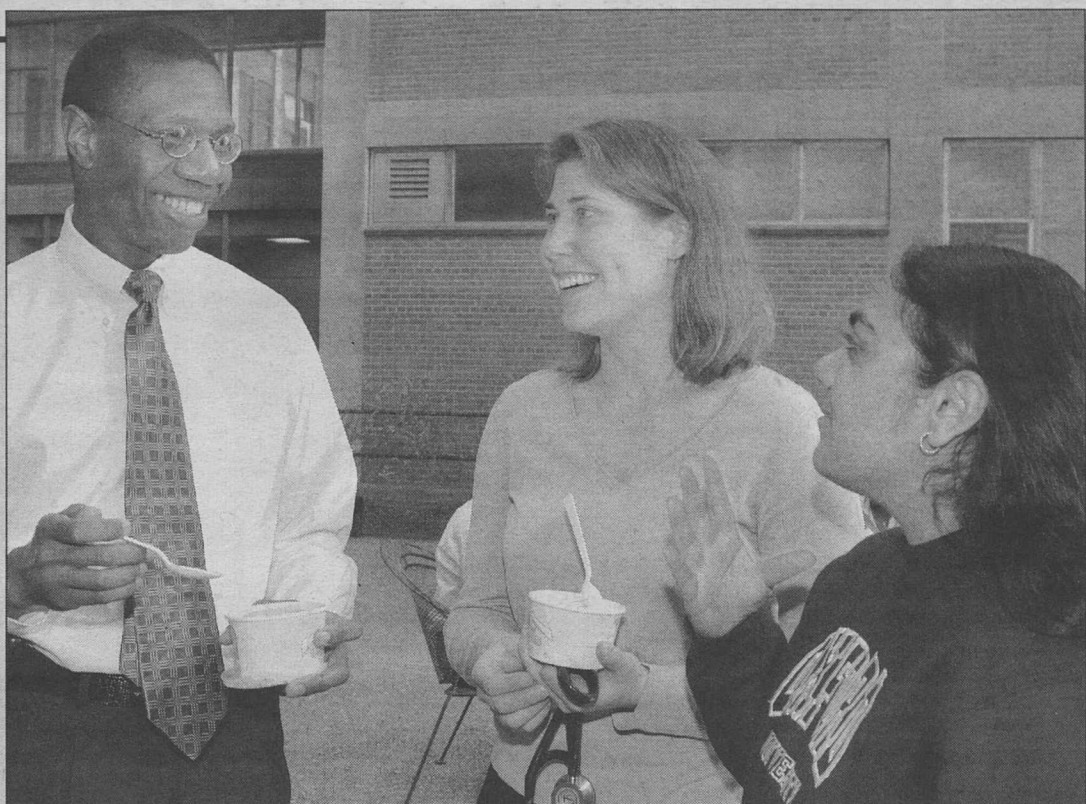
Other variations include changes in the cell membrane's responsiveness to stimulation and in the time period when brain cells are quiet and active. Taghert estimates that the fly brain contains several hundred different subtypes of nerve cells and guesses that the human brain may contain thousands.

Through studies of a fruit fly brain area containing five specialized cell types, Taghert and his colleagues showed that developmental factors could participate in the more interactive model of neurodevelopment.

In this model, many different sets of regulatory compounds interact in a nerve cell's nucleus to switch specialized traits on and off.

The traits that are turned on and off are determined by which combinations of development factors are present in the cell.

But scientists also found evidence that some of the same developmental factors they studied were producing a different model of neurodevelopment, uniformly dictating the creation of the same specialized traits in many different cells across a wide region of the brain regardless of their interaction with other developmental factors.



A diverse appeal will Ross, M.D., associate dean and director of the Office of Diversity at the School of Medicine, enjoys Ted Drewes ice cream with first-year medical students Karl Wanat (center) and Noopur Gangorpaday at the Office of Diversity's annual ice cream social for prospective medical students. The office is dedicated to enhancing and expanding the diversity of the University's student population while serving as an advocate for a diverse faculty. The office also aims to encourage underrepresented and economically disadvantaged high school and college students to pursue careers in medical science. By developing a robust clinical outreach program for underserved groups in the surrounding community, Ross explains that the University helps create "a medical center without walls."

Model offers insight into diabetic heart disease

By GWEN ERICSON

In mice whose heart muscles take up high amounts of fat, the heart fills abnormally after each contraction, according to University researchers. This condition is consistent with the first stage of heart dysfunction in human diabetics.

Heart disease is the leading cause of death among the more than 13 million diabetics in the United States. Clinical studies suggest impairment of the diastolic, or filling phase, of the cardiac cycle is the first stage of a progression that leads to more widespread heart malfunction in patients with diabetes.

"For the first time, we've been able to reproduce many aspects of what you see very early on in the hearts of individuals with diabetes by altering fat metabolism in the heart," said Jean E. Schaffer, M.D., associate professor of medicine

and of molecular biology and pharmacology. "If these mice can lead us to ways to intervene at this stage, we might be able to help prevent diabetic cardiomyopathy."

The researchers' study was reported in a recent issue of *Circulation Research*.

The mice used in the study were engineered so that their cardiac muscles produced eight times the normal amount of a protein that pulls fat into cells. The heart muscle responded by increasing its rate of fat burning. But the uptake of fat exceeded the ability of the cells to adjust their metabolism, and the cells accumulated two times more fat than normal.

Many diabetics have high levels of fat in their blood, which can contribute to abnormal fat metabolism and the accumulation of fat in heart tissue. Precisely how this leads to the symptoms of heart disease seen among diabetics has

not yet been clarified.

"These mice allow us to isolate and study the effect of fat on heart muscle cells, independent of any types of global metabolic effects caused by abnormal blood levels of fats," Schaffer said.

The researchers performed echocardiograms, or sound wave imaging of the heart, and performed cardiac catheterizations to measure the pressures within the mouse hearts during the cardiac cycle.

The results of these studies indicated that the ability of the heart to relax after contracting was impaired. In other words, the hearts were stiff or nonpliant.

When the mice's heart tissue was examined microscopically, there was evidence of fibrosis, an increased deposition of fibers surrounding the heart cells.

"Additional fibrous material can change the elasticity of cardiac tissue," she said. "So that may contribute to impaired relaxation."

The hearts also showed significant prolongation between electrical activation and inactivation of the ventricles. This particular change in the electrical properties of the heart appears frequently among diabetics and is a predictor of cardiac mortality.

Previously, the research team had developed other transgenic mice with increased amounts of other proteins that bring fats into cells. These earlier mouse models demonstrated different heart problems, including defects in pumping action, rather than in the filling phase.

Those mice often died young, while the mice used in the present studies had a normal life span.

"The difference between the mouse models we've developed tells us that how fats enter heart muscle cells may determine how the cells cope with it," Schaffer said.

"We will continue investigating the mice to clarify the link between excess fat, fat metabolism and filling problems in the heart."

The team will also test which therapeutic interventions decrease the apparent toxicity of fat on the heart and help remedy the defects shown in the mice.

University medical students named to national positions

By ERIC PATTON

Three students from the School of Medicine have been chosen for prominent offices in the American Medical Student Association (AMSA).

Leana S. Wen was elected

national president, Andrew R. Reinink was named an associate regional trustee and Kao-Ping Chua was hired as the Jack Rutledge Fellow at the AMSA annual convention last month in Washington, D.C.

"The School of Medicine is

privileged to educate the most academically gifted and broadly talented medical students in America," said Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the medical school.

"Our mission is to graduate future leaders in biological sciences and medicine. It is therefore quite gratifying to see so many of our students playing a leadership role on a national scene with this important medical organization."

The office of president and the Jack Rutledge Fellow are full-time, salaried positions. Both Wen and Chua will take a one-year hiatus from medical school and relocate to the Washington, D.C., area to serve their terms.

"It's an enormous honor for these students and a testament to their longstanding dedication to this organization," said Leslie Kahl, M.D., associate dean for student affairs and professor of medicine. "They have both been actively involved with AMSA since coming to the medical school."

Wen has been an AMSA member for more than seven years. As president, she will oversee the board of trustees, guide all initia-

tives of the organization, represent AMSA in all external affairs and serve as an ex officio member on all its committees.

"It was the community service and advocacy work I've done for AMSA that convinced me medicine was the right career for me," Wen said. "AMSA continues to give me and countless other students hope for the future."

The Jack Rutledge Fellow focuses on issues pertaining to universal health care, which is exactly what drew Chua to the medical field.

"When my brother got appendicitis and had to pay a lot of money for a medical procedure, it really drove home to me the problem of being underinsured or uninsured," Chua said.

Founded in 1950, AMSA is the oldest and largest association of physicians-in-training in the United States. The student-governed, nonprofit organization of nearly 50,000 members is dedicated to the concerns of medical students and advancement of medical practice.

The association has given more than \$100 million in grants for initiatives that improve health or health care.

Symphony members to play at lecture

By MICHAEL C. PURDY

A former professor of pediatrics and deputy vice chancellor for medical affairs is bringing company to her presentation at the seventh William M. Landau lectureship at 4 p.m. April 28 in Clopton Auditorium.

Virginia V. Weldon, M.D., an honorary trustee of the Saint Louis Symphony Orchestra, will be accompanied by three of the symphony's musicians for a presentation titled "How We Make Music Together: Saving the Saint Louis Symphony."

Weldon, who plays piano and loves classical music, recently stepped down from a five-year term as chair of the Saint Louis Symphony.

Joining her for the presentation, with instruments in tow, will be David Halen, symphony concertmaster and principal violinist; principal horn Jennifer Montone; and principal flute Mark Sparks.

William M. Landau, M.D., professor and former chairman of neurology, wanted the lectureship to be dedicated to highlighting the contributions and services of physicians in nonmedical fields such as the arts and politics.

At the time of the lectureship's creation, Landau wrote that it might be interesting "for all of us to consider role-model performances by physicians who contribute beyond their parochial precincts."

University Events

Tibetan monks to bring music, dance to Edison

By LIAM OTTEN

Monks from Tibet's legendary Drepung Loseling Monastery will present *The Mystical Arts of Tibet: Sacred Music, Sacred Dance* at 8 p.m. April 29-30 at Edison Theatre.

The concert — presented by the Edison Theatre OVATIONS! Series — will offer a rare opportunity to experience temple music and dance from one of the world's most ancient sacred traditions, as performed by monks for whom these traditions remain a way of life.

In addition, the monks will present an all-ages matinee as part of the ovations! for young people series at 11 a.m. April 30.

First launched in 1988, *Sacred Music, Sacred Dance* is co-sponsored by Richard Gere Productions Inc. with the blessings of the Dalai Lama. It features a dozen monks performing nine pieces believed to generate energies conducive to inner peace and world healing.

The performance highlights multiphonic singing, in which the monks simultaneously intone three notes of a chord, as well as traditional Tibetan instruments such as 10-foot-long dungchen trumpets, drums, bells, cymbals and gyalgling horns. Rich brocade costumes and masked dances, such as the "Dance of the Sacred Snow Lion," add to the splendor.

The Drepung Loseling monks have performed at festivals, universities and auditoriums around the country, including such prestigious venues as Carnegie Hall, the National Mall in Washington, D.C., and the 1996 Olympics in Atlanta.

The have performed with

Mandala Sand Painting exhibit

In conjunction with their Edison Theatre performances, the Drepung Loseling monks will be in residence at the Saint Louis Art Museum (SLAM) April 26-May 1 for an exhibition/demonstration of traditional Tantric dul-tson-kyil-khor, or painting with colored sand. (The term literally translates as "mandala of colored powder.")

Mandala Sand Painting: The Architecture of Enlightenment will open with a ceremony at noon April 26 and will continue daily through April 30. A closing ceremony will be held at 2 p.m. May 1.

For more information, call SLAM at 721-0072.

artists such as Paul Simon, Sheryl Crow, Michael Stipe, Patti Smith, Natalie Merchant and the Beastie Boys, as well as in the premiere live presentation of Philip Glass' Academy Award-nominated score for Martin Scorsese's film *Kundun* (1997).

The Drepung Loseling monks are also featured on the Golden Globe-nominated soundtrack for *Seven Years in Tibet* (1997) starring Brad Pitt, as well as in their own recordings, the best-selling *Sacred Tibetan Temple Music* (1988) and *Sacred Music, Sacred Dance* (1993).

The Drepung Loseling Monastery was established near Lhasa, Tibet, in 1416 and was especially close to the Dalai Lama incarnations: the Second Dalai Lama



Monks from Tibet's legendary Drepung Loseling Monastery will present *The Mystical Arts of Tibet: Sacred Music, Sacred Dance* at 8 p.m. April 29-30 at Edison Theatre. The monks will also present an all-ages matinee as part of the ovations! for young people series at 11 a.m. April 30.

made his residence there in 1494, and subsequent incarnations maintained the link.

In 1959, after China's invasion of Tibet, the monks re-established the monastery in Karnataka State, South India. In 1991, they also established a North American seat, the Drepung Loseling Insti-

tute, now affiliated with Emory University.

Edison Theatre programs are supported by the Missouri Arts Council, a state agency, and the Regional Arts Commission, St. Louis.

Tickets are available at the Edison Theatre Box Office and

through all MetroTix outlets.

Costs are \$28; \$24 for seniors and WUSTL faculty and staff; and \$18 for students and children.

Tickets for the April 30 matinee are \$7.

For more information, call 935-6543.

Children's Film Symposium • Evolving the Skeleton • Mind-Body Problem

"University Events" lists a portion of the activities taking place April 22-May 5 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).

Exhibits

Inside Out Loud: Visualizing Women's Health in Contemporary Art. Through April 24. Kemper Art Museum. 935-4523.

Film

Saturday, April 30

Noon. Film & Media Studies Children's Film Symposium Presentation. *Piglet's Big Movie* and *The Powerpuff Girls' Mo Linguish*. (2:15-4 p.m., panel discussion.) Co-sponsored by the Center for the Humanities and the program in children's studies. Brown Hall, Rm. 100. 935-5576.

Lectures

Friday, April 22

9:15 a.m. Pediatric Grand Rounds. "Looking at the Heart: Yesterday, Today and Tomorrow." Gautam K. Singh, assoc. prof. of pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell Biology & Physiology Seminar. "Taking Out the Trash: Cellular Mechanism to Eliminate Unwanted or Toxic Proteins." Ron R. Kopito, prof. of biological sciences, Stanford U. McDonnell Medical Sciences Bldg., Rm. 426. 362-3934.

12:30-4 p.m. St. Louis STD/HIV Prevention Training Center CME Course. "STD Update." (Continues April 29 & May 6.) Cost: \$75. U. of Mo.-St. Louis, South Computer Bldg., Rm. 200A. To register: 747-1522.

2-4 p.m. Academic Publishing Services Workshop. "Strategies for Manuscript Publishing: Understanding the Big Picture and Initial Approaches to Writing." Cost: \$50 for faculty & staff, \$35 for fellows, residents, postdocs & students. Cori Aud., 4565 McKinley Ave. To register: 747-4656.

2 p.m. University Mentoring Seminar. "Strategic Mentoring: A Catalyst for Professional Development in Higher Education." Stacy Blake-Beard, assoc. prof. of management, Simmons College. Co-sponsored by the office of faculty affairs, the office of post graduate affairs, and the office of the vice chancellor for research. Eric P. Newman Education Center. 362-2591.

2:30-5 p.m. Art History & Archaeology Symposium. In honor of Mark S. Weil. "Exploring the History of Art." (5 p.m. reception.) Women's Bldg. Formal Lounge. To register: 935-5270.

4 p.m. Immunology Research Seminar Series. "Mammalian SIRT5: A Conserved Deacetylase Family With Roles in Development, Genomic Stability, and Aging." Frederick W. Alt, investigator, Howard Hughes Medical Inst., and Harvard U. Eric P. Newman Center. 362-2763.

7 p.m. Kemper Art Museum Friday Forum. "The Mind-Body Problem." Susan Felleman and Vagner Whitehead, both asst. prof. of cinema studies, Southern Ill. U. Carbondale. (6:30 p.m. reception.) Cost: \$10, \$5 for students. Kemper Art Museum. Reservations: 935-5490.

7:30 p.m. University Libraries Talk. "Among the Gently Mad." Nicholas Banes, author. Olin Library, Whispers Café. RSVP: 935-8003.

Saturday, April 23

7:30 a.m.-12:30 p.m. Cardiovascular Division CME Course. "Practical Management of Arrhythmias." Cost: \$55. Eric P. Newman Education Center. To register: 362-6891.

7:30 a.m.-4 p.m. Gastroenterology CME Course. "Liver Disease: Therapeutic Challenges." Cost: \$125. The Ritz-Carlton St. Louis, 100 Carondelet Plaza. To register: 362-6891.

10 a.m. Physics of the Environment Saturday Series. "Solar Energy — Where

How to submit 'University Events'

Submit "University Events" items to Genevieve Podleski of the Record staff via:

- (1) **e-mail** — recordcalendar@wustl.edu;
- (2) **campus mail** — Campus Box 1070; or
- (3) **fax** — 935-4259.

Deadline for submissions is noon on the Thursday eight days prior to the publication date.

Do We Stand?" Anders Carlsson, prof. of physics. Sponsored by the Dept. of Physics and University College. Crow Hall, Rm. 201. 935-6276.

Monday, April 25

Noon. Molecular Biology & Pharmacology Seminar. "Molecular Mechanisms of the Dorsal Spinal Cord Development." Zhou-Feng Chen, asst. prof. of anesthesiology, of psychiatry and of molecular biology & pharmacology. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

Noon. Neurology Monday Noon Seminar Series. Randy L. Buckner, assoc. prof. of psychology, of anatomy & neurobiology, and of radiology. Maternity Bldg., Schwarz Aud. 747-3243.

Noon. Work, Families, and Public Policy Brown Bag Seminar Series. "Pre-primary School Attendance and Maternal Labor Supply: Evidence From a School Construction Program." Sebastián Galani, U. de San Andrés. Eliot Hall, Rm. 300. 935-4918.

4 p.m. Immunology Research Seminar Series. "Epigenetic Regulation in Lineage Specification During Lymphocyte Development." Dan Littman, Helen L. and Martin S. Kimmel Professor of Molecular Immunology and prof. of pathology and microbiology, New York U., and immunology program distinguished visiting professor. Eric P. Newman Education Center. 362-2763.

5:30 p.m. Cardiac Bioelectricity & Ar-

rhythmia Center Seminar. "Optical Mapping of Intramural Virtual Electrodes in Porcine Left Ventricular Wall." Oleg F. Sharifov, research asst. prof. of biomedical engineering, U. of Ala., Birmingham. Whitaker Hall, Rm. 218. 935-7887.

Tuesday, April 26

12:30 p.m. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Analysis of Stress Resistance in the Fungal Pathogen *Cryptococcus neoformans*." Jennifer Lodge, assoc. prof. of biochemistry & molecular biology, St. Louis U. McDonnell Medical Sciences Bldg., Erlanger Aud. 747-5597.

Wednesday, April 27

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Insights Into STAT Tetramerization Derived From the Solution Structure of STAT4-NT." R. Andrew Byrd, chief, structural biophysics lab., center for cancer research, National Cancer Inst., Frederick, Md. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. Religious Studies Lecture. E.G. Welton Lecture in Early Christianity. "What Parting of the Ways? Jews and Christians in the Ancient Mediterranean City." Paula Fredriksen, William Goodwin Aurelio Professor of the Appreciation of Scripture, Boston U. Lab. Sciences Bldg., Jerzewiak Family Aud. 935-7752.

Thursday, April 28

4 p.m. Anesthesiology Lecture. Annual C.R. Stephen Lecture. "From Peppers to Peppermints: Molecular Insights Into Thermosensation and Pain." David Julius, prof. and vice chair of cellular & molecular pharmacology, U. of Calif., San Francisco. Eric P. Newman Education Center. 454-8701.

4 p.m. Chemistry Seminar. "Reactions of Enolate Aggregates: Experiment and Theory." Andrew Streitwieser, prof. emeritus of chemistry, U. of Calif., Berkeley. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Department of Neurology Lecture. William M. Landau Lecture. "The Saint Louis Symphony Orchestra: How We Make Music Together." Virginia V. Weldon, honorary trustee of the symphony. Clopton Aud., 4950 Children's Place. 362-7177.

4 p.m. Molecular Biology & Pharmacology Seminar. Annual David M. Kipnis Lecture. "Building and Evolving the Skeleton." David Kingsley, prof. of developmental biology, Stanford U. McDonnell Medical Science Bldg., Erlanger Aud. 362-0183.

Friday, April 29

9:15 a.m. Pediatric Grand Rounds. Annual J. Neal & Lois Middlekamp Lecture. "Trying to Understand Persistent Bacterial Infection." Stanley Falkow, Robert W. & Vivian K. Cahill Professor of Microbiology & Immunology and of medicine, Stanford U. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cardiothoracic Surgery Lecture. Annual Ferguson Lecture. "New Developments in the Surgical Management of Mitral Valve Regurgitation." Hartzell Schaff, chairman, div. of cardiovascular surgery, Mayo Clinic, Rochester, Minn. Barnes-Jewish Hosp. Bldg., East Pavilion Aud. 362-7327.

Noon. Cell Biology & Physiology Seminar. "Argonaught: The Secret Life of Slicer." Gregory Hannon, Watson School of Biological Sciences, Cold Spring Harbor Lab. McDonnell Medical Sciences Bldg., Rm. 426. 362-4690.

2-4 p.m. Academic Publishing Services Workshop. "Strategies for Manuscript Publishing: Going Beyond the Abstract — How to Write a Winning Paper." Cost: \$50 for faculty & staff, \$35 for fellows, residents, postdocs & students. Cori Aud., 4565 McKinley Ave. To register: 747-4656.

3 p.m. Film & Media Studies Children's Film Symposium Keynote Address. Betsy Hearne, prof. of library & information science, U. of Ill. Co-sponsored by the Center for the Humanities and the program in children's studies. Women's Bldg. Formal Lounge. 935-5576.

Monday, May 2

Noon. Molecular Biology & Pharmacology Seminar. "The Language of Diplomacy: The Establishment of the Squid-Vibrio Symbiosis." Margaret McFall-Ngai, prof. of medical microbiology and immunology, U. of Wisc. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

Hotchner winner *Six Seconds in Charlack* to debut April 28

BY LIAM OTTEN

For St. Louis commuters, the small, inner-ring suburb of Charlack, Mo., passes in the blink of an eye, its borders marked by a pair of signs set only a few hundred yards apart along Interstate 170.

Yet as Brian Golden's *Six Seconds in Charlack* reminds us, sometimes an instant is enough to change a life.

The drama — winner of the University's 2004 A.E. Hotchner Playwriting Competition — will be presented by the Performing Arts Department in Arts & Sciences April 28-May 1 in the A.E. Hotchner Studio Theatre.

Performances will begin at 8 p.m. April 28-30 and at 2 p.m. April 30-May 1.

Six Seconds in Charlack focuses on Bard (junior Chauncy Thomas), a lapsed writer who has quit the local newspaper, and his girlfriend Penny (sophomore Lauren Dusek), a nurse who has encouraged Bard to join her father's law firm.

Yet Bard remains haunted by the ghost of Candy (senior Christena Doggrell), whose tragic story gradually unfolds in a series of short, dreamlike scenes that jump backward and forward in time.

"It's a play about someone trying to remember who they are," said Golden, a 2004 WUSTL graduate. "Bard is running from something, but his memories — represented by this wonderful, untouchable woman — won't let him sleep at night."

The biennial Hotchner competition — endowed by alumnus, novelist, poet and playwright A.E. Hotchner — is open to all WUSTL undergraduate and graduate students. Winning plays are selected by blind jury and undergo a year-long development process before debuting the following spring in full theatrical production.

Director Jeffery S. Matthews, senior artist-in-residence, explained that the development process "really gives playwrights time to polish and refine their works. It's exciting to watch, exciting to get the new pages."

"Brian is very talented and a great listener," Matthews added. "When you give him a note, you know that he really hears it. He's also a merciless editor of his own work, which brings real depth to the writing."



Christena Doggrell plays Candy in Brian Golden's *Six Seconds in Charlack*, winner of the 2004 A.E. Hotchner Playwriting Competition. It will be staged April 28-May 1 in the Hotchner Studio Theatre.

The four-person cast is rounded out by Dan Hirsh, who performs a variety of roles.

Set design is by Pushkar Sharma. Costumes are by Salina Greene. Sound and lighting are by Derek Dohler and Matt Kites, respectively.

It's been a busy month for Golden. In addition to debuting *Charlack*, he recently appeared at the Kennedy Center in Washington, D.C., as acting partner to Daniel Sheridan, a longtime friend who won an Irene Ryan Acting Scholarship at this year's American College Theatre Festival.

Hotchner, a 1940 WUSTL graduate, is perhaps best known for *Papa Hemingway* (1966), which recounts his long friendship with the famous writer. His memoir, *King of the Hill*, which recounts growing up in St. Louis, was made into a feature film in 1993.

Tickets are \$12 — \$8 for students, senior citizens and WUSTL faculty and staff — and are available through the Edison Theatre Box Office, 935-6543, and all MetroTix outlets.

For more information, call 935-6543.

Music department concert to dedicate new grand piano

Pianist Seth Carlin, professor of music in Arts & Sciences, will dedicate the Department of Music's new grand piano in Graham Chapel with a concert of works by Robert Schumann (1810-1856) and Clara Schumann (1819-1896).

The concert, which is free and open to the public, will begin at 7:30 p.m. April 24.

The 9-foot grand piano — made by Steinway & Sons of Long Island City, N.Y. — is the company's largest and the standard-size for concert performances. In addition to solo recitals, the piano will be used for chamber music performances; to accompany singers and instrumentalists in recital; and for concertos with campus ensembles, such as the Washington University Symphony Orchestra.

Carlin; Robert Snarrenberg, Ph.D., chair of the music de-

partment; and Sona Haydon, senior lecturer in piano, selected Steinway as the piano's maker. Earlier this year, they traveled to the company's factory with Priscilla McDonnell, whose gift to the Department of Music assisted in its purchase, to select the instrument.

The April 24 concert will feature several works by the Schumanns, whose compositions were largely written at a time when the piano was evolving from what we now call the "fortepiano" into the modern instrument. The program will include Robert Schumann's *Symphonic Etudes* (1934-37) and Clara's *Variations on a Theme of Robert Schumann* (1853), as well as her *Mazurka*, op. 6, no. 5 (1836), on which Robert based his noted *Dauids-bündlertänze* (1837).

For more information, call 935-4841.

Noted author, bibliophile Basbanes to lecture today

BY ANDY CLENDENNEN

Acclaimed author and bibliophile Nicholas Basbanes will give a talk titled "Among the Gently Mad" at 7:30 p.m. today in Whispers Café in Olin Library.

Basbanes' passion for books, his engaging investigations into the history of book-collecting, and his insight on the challenges facing the book in the 21st century have made him one of the most respected and popular chroniclers of the history of the printed word.

His first book, *A Gentle Madness: Bibliophiles, Bibliomanes, and the Eternal Passion for Books*, was a finalist for the 1995 National Book Critics Circle Award in nonfiction and a New York Times Notable Book of the Year.

His newest book, *A Splendor of Letters*, prompted André Bernard of *The New York Observer* to write that "no other writer has traced the history of the book so thoroughly or so engagingly, with such a warm human touch."

Basbanes' other books include *Patience and Fortitude: A Roving Chronicle of Book People, Book Places, and Book Culture*; *Among the Gently Mad: Strategies and Perspectives for the Book Hunter of the 21st Century*; and *A Splendor of Letters: The Permanence of*

Books in an Impermanent World.

His next book, *Every Book Its Reader*, is about great readers and will be in bookstores in the fall.

Basbanes was born in Lowell, Mass., in 1943 and graduated from Bates College in 1965. In 1968, he earned a master's degree from Pennsylvania State University before serving as a Naval officer on the aircraft carrier *Oriskany* in the Tonkin Gulf from 1969-1970.

An award-winning investigative reporter in the 1970s, Basbanes went on to serve as the literary editor for the *Worcester Sunday Telegram* from 1978-1991.

Afterward, he wrote a nationally syndicated column on books for eight years.

In addition to publishing books about books, Basbanes writes a bimonthly column in *Fine Books & Collections Magazine* called "Gently Mad" and a monthly review of children's books for Literary Features Syndicate.

Basbanes' talk is free and open to the public, but a reservation is needed (935-8003; events@wulib.wustl.edu). Those making a reservation should provide a name and the number of people in their party.

For more information, call 935-5418.

Noon. Neurology Monday Noon Seminar Series. "Anti-AB Antibody Attenuates Cognitive Impairment in a Model of Experimental Traumatic Brain Injury." David L. Brody, instructor in neurology. Maternity Bldg., Schwarz Aud. 747-3243.

2 p.m. April 30 & May 1.) Cost: \$12, \$8 for seniors and WUSTL faculty, staff and students. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

Music

Sunday, April 24

3 p.m. Graduate Voice Recital. Debra Hillbrand, soprano, and Henry Palkes, piano. Whitaker Hall Aud. 935-4841.

7:30 p.m. Dedication Recital. Seth Carlin, professor of music, piano. Graham Chapel. 935-4841.

On Stage

Friday, April 22

8 p.m. OVATIONS! Series. *Hiroshima Maiden*. Dan Hurlin, performance artist and puppeteer. (Also 8 p.m. April 23.) Cost: \$28, \$24 for seniors, WUSTL faculty and staff, \$18 for students and children. Edison Theatre. 935-6543.

Thursday, April 28

8 p.m. Performing Arts Department Presentation. *Six Seconds in Charlack* by Brian Golden, winner of the A.E. Hotchner Student Playwriting Competition. Jeffrey Matthews, dir. (Also 8 p.m. April 29 & 30,

Sports

Saturday, April 23

All day. Track & Field. University Athletic Association Championships. Francis Field. 935-4705.

Sunday, April 24

All day. Track & Field. University Athletic Association Championships. Francis Field. 935-4705.

Wednesday, April 27

4:30 p.m. Softball vs. Webster U. WUSTL Field. 935-4705.

Worship

Saturday, April 23

8:15 p.m. Passover Seder. Sponsored by Chabad on Campus. 7240 Forsyth Blvd. 721-2884.

Sunday, April 24

8:15 p.m. Passover Seder. Sponsored by Chabad on Campus. 7240 Forsyth Blvd. 721-2884.

And more...

Friday, April 22

4 p.m. Writing Program Reading Series. C.K. Williams, poet. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

Monday, April 25

3 p.m. Visiting East Asian Professionals Program Event. Wakasanojo demonstrates and discusses the art of shinnai. Women's Bldg. Formal Lounge. 935-8772.

Tuesday, April 26

8 p.m. Writing Program Reading Series. Master of Fine Arts readings. (Also 8 p.m. April 27 & 28.) Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

Friday, April 29

3 p.m. Film & Media Studies Children's Film Symposium. Storytelling with Betsy Hearne, prof. of library & information science, U. of Ill. Co-sponsored by the Center for the Humanities and the program in children's studies. Women's Bldg. Formal Lounge. 935-5576.

Sunday, May 1

8 p.m. Sam Fox School of Design & Visual Arts Fashion Design Show. (7:30 p.m. reception.) Cost: \$50, \$25 for students. St. Louis Galleria Garden Court. 935-9090.

Campus Watch

The following incidents were reported to University Police **April 13-20**. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

April 13

10:01 a.m. — A lecturer in the School of Art reported his Canon digital camera taken from an unlocked cabinet in Bixby Hall. The camera was a silver Canon S30 Powershot. The theft occurred between 9 a.m. Feb. 17 and 9 a.m. March 28.

Crime alert

On April 18, University Police issued the following alert: There have been several recent vehicle break-ins to vehicles in the area of Rosedale Avenue and Waterman Boulevard. In several of these cases, force has been used to gain entry to the vehicle, and stereos or other items of value have been stolen.

Precautions: Report suspicious persons or activity immediately to the police at 911 or go to the nearest emergency telephone. If you hear a vehicle alarm, contact police immediately. Do not leave expensive property in plain view in your vehicle.

Response: Report suspicious activities or persons immediately to the police at 911 or via Blue Light Emergency Telephone. Contact St. Louis Police if you have any information that might assist in this investigation.

Additionally, University Police responded to two parking violations, three larcenies, two reports of damaged property, and one report each of judicial violation, auto accident and disturbance.

Award

Fox received honorary law doctorate in 2002
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commissioners.

Fox, a 1951 WUSTL business school graduate, is chairman and chief executive officer of Harbour Group Ltd., the privately held operating company he founded in 1976. Harbour has enjoyed tremendous success and now has more than 10,000 employees worldwide.

A native Missourian, Fox came to St. Louis in 1947 to attend the University, and he stayed. Like his fellow honoree, Fox has helped guide the University as a member of the Board of Trustees for many years.

Formerly a vice chair and currently a Life Trustee, he has been actively involved in his alma mater in many leadership roles, among them: serving on the University's Development Committee to recommend a capital campaign; heading the Eliot Society; and serving as a member of the Olin School of Business National Council.

Fox and his wife, Marilyn, are Life Danforth Circle members.

He also gives generously of his time and talents to the St. Louis region. He has been president of the Board of Commissioners of the Saint Louis Art Museum and

president of the Greater St. Louis Council of Boy Scouts of America, and has served key leadership roles in many other St. Louis organizations.

In 2003, he served as chair of the St. Louis United Way campaign and was named St. Louis' Citizen of the Year by a committee made up of prior award recipients.

In 2002, the University awarded him an honorary doctor of laws degree.

Ground was broken last year on two buildings that will be part of a new school being named in honor of Fox's many contributions to the University.

The Sam Fox School of Design and Visual Arts will include the School of Art, the School of Architecture and the Mildred Lane Kemper Art Museum, all of which will work closely with the Kenneth and Nancy Kranzberg Art & Architecture Library and the Department of Art History and Archaeology in Arts & Sciences.

"Matching the University's lofty ambitions with these two leaders was the secret to our campaign's success. (McDonnell and Fox) have served as an inspiration to thousands of dedicated volunteers, staff and donors. We could not have accomplished the meeting of our goals without John and Sam at the helm."

MARK S. WRIGHTON

The school will strengthen the University's focus on design and arts.

It is scheduled for completion next year.

"Matching the University's lofty ambitions with these two leaders was the secret to our campaign's success," Wrighton said.

"They have served as an inspiration to thousands of dedicated volunteers, staff and donors. We could not have accomplished the meeting of our goals without John and Sam at the helm."

"Both men epitomize the drive to serve society and work for the greater good," Wrighton said.

"Their collective contributions are incalculable to Washington University, and we will be mindful of them for generations to come."

The Eliot Society was founded in 1959. Its 4,500 members are alumni, parents and friends who provide unrestricted support to the University.

Sports

Softball team wins 22nd-straight game

The top-ranked softball team tied a school record by winning its 22nd-straight game with six wins last week.

The Bears swept a double-header, 8-0 and 10-2, at Greenville College on April 15, then posted four wins at the Illinois Wesleyan University Invitational.

On April 16, WUSTL posted a school-record 22nd shutout of the season in defeating No. 14 Coe College, 1-0, then posted a 3-2 comeback win against Illinois Wesleyan.

The Bears notched a 12-4 victory over Benedictine University in Game 1 April 17.

In the finale, sophomore Jamie Kressel hit two home runs, including a walk-off homer in the seventh, to lead the Bears to a 2-1 victory over No. 12 University of Chicago.

Women's tennis takes second place at UAAs

The women's tennis team took second place at the UAA Championship April 15-17 in Waltham, Mass.

The Bears fell to Emory University, 8-1, in the UAA final. Senior Kacie Cook notched the lone point for WUSTL against Emory, winning her No. 2 singles match 6-2, 7-5.

Cook went 3-0 at second singles on the weekend, the best mark at that position in the conference; she is 12-11 overall in singles play this season.

The Bears opened the Championship with a 9-0 win against Case Western Reserve University. The next day, WUSTL upended

Carnegie Mellon University, 6-3, in the semifinals.

Baseball loses two at DePauw University

The baseball team dropped a pair of games at DePauw University on April 16.

The Bears fell, 3-0, in Game 1 and 8-2 in Game 2, dropping to 27-6.

Men's, women's track teams finish third

The men's and women's track and field teams placed third at the North Central Quad on April 16 in Naperville, Ill.

Junior David Skiba paced the men, putting together another strong performance in the hurdles events. Skiba won the 400-meter hurdles in 56.52 and placed second in the 110 hurdles in 15.05.

On the women's side, juniors Laura Ehret and Natalie Karas each won an event.

Ehret clocked a 2:18.99 in the 800, improving her team season-best time by two seconds. Karas took first place in the 5,000 in 18:56.72.

Men's tennis team finishes fourth at UAAs

The No. 17 men's tennis team took fourth place at the UAA Championship April 15-17 in Waltham, Mass.

The Bears defeated New York University, 5-2, in the opening round and then dropped a 4-3 decision to the University of Rochester in the semifinals.

WUSTL then fell to the University of Chicago, 4-3, on April 17 in the third-place match.

Impulses

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ogy and pharmacology and director of the Division of Bioorganic Chemistry and Molecular Pharmacology.

Potassium channels are among the most important cell channels used for propagating electrical signals in nerve and heart muscle. Their protein units form pores that permeate the outer membrane of the cell and selectively allow the passage of potassium ions, which are essential components of cell signaling systems.

Like a meter that measures charge in a battery, a Kv1.1 channel senses the amount of voltage between the interior and exterior of cells and can open and close in response to voltage changes.

Because they are embedded in the cell membrane, Kv1.1 channels are tightly surrounded by the fatty molecules of the membrane, which line up next to each other to create a stable structure.

"We think the attached palmitate molecule causes a defect in the close, regular packing of the membrane's fatty molecules around the Kv1.1 channel because the palmitate has a different shape," Gross said. "This shape loosens the membrane packing, changes the movement of the channel protein and alters the voltage needed for it to open or close."

The researchers identified the specific site or amino acid in the Kv1.1 protein units that palmitate most often links to. They discovered that a short sequence of amino acids on either side of the attachment site is found in several other proteins as well, arguing for an evolutionarily conserved function for this amino acid sequence.

Most strikingly, five of six amino acids adjacent to the attachment site matched a site where palmitate is known to attach to CD36, an abundant protein vital for moving fatty molecules through the membrane into cells.

"When we see that molecules as widespread, as important and as different from each other as CD36 and Kv1.1 are linked to

palmitate at the same sequence — that's nature sending us a message," Gross said. "It's possible that this palmitate attachment site has been used throughout evolution to fulfill functions involving fatty molecules."

Future investigations will seek to further characterize the electrical properties conferred by the addition of palmitate to Kv1.1. The research team will also begin studies with mice to determine the effects of dietary fats on palmitate attachment and the electrical characteristics of cells.

"We want to find out if a connection exists between dietary fats, the attachment of palmitate to proteins and health," Gross said. "In obesity or in cellular lipotoxicity, you exceed cells' capacity to handle fatty acids."

"Accumulation of fatty acids can lead to an increase in alterations like palmitate attachment, not only in Kv1.1, but also in dozens or even hundreds of other proteins. That possibly explains some of the many types of damage that result from having too high of a fatty acid burden."

range, to get exactly the same type of absorption feature in these dust particles.

"The interesting thing is that Bradley and his colleagues found the absorption feature in exactly those places in the IDPs that we have identified as presolar in origin," Stadermann said. "That is a good indication that what the astronomers have been seeing for the last 40 years is the same thing we now observe in these IDPs."

Floss said that Bradley's discovery is significant because organic carbon and amorphous silicates are abundant in interstellar dust clouds, and abundant carriers are needed to account for the fact that the 2175 Å feature is so commonly observed by astronomers.

The WUSTL contribution is important because the NanoSIMS measurements prove that these grains in the IDPs are presolar. This shows that this material has a direct connection to interstellar dust clouds and is not just something from the solar system that coincidentally shows the same extinction feature.

"We originally sent the IDPs to Bradley so that he could identify the presolar phases that we had found," Floss said. "With this

"Interstellar dust, for some reason, absorbs light at this frequency, and it has been difficult to pinpoint what the source of the absorption is. ... Now, for the first time, it can be said we have it."

FRANK STADERMANN

new technique, he then made more measurements and made this discovery."

In 2000, with help from NASA and the National Science Foundation, WUSTL bought the first commercially available NanoSIMS. Made by Cameca in Paris, the NanoSIMS ion microprobe can resolve particles as small as 100 nanometers in diameter.

A million such particles side-by-side would make a centimeter. The presolar grains in IDPs range from 100 nanometers to 500 nanometers.

Sit-in

— from Page 1

als put forward by the University.

The Student Worker Alliance's last-minute alterations and additions were unacceptable in substance and because they represented a retraction of their earlier agreement.

Wrighton then removed the University's new proposals from consideration and said that the University would proceed with the plan announced April 14.

Consequently, none of what happened in the meeting on April 16 is currently under consideration, due to the failure of the sit-in participants to proceed with their commitment to end the sit-in. Wrighton delivered this message to the sit-in participants late (on April 16) and again gave them the opportunity to reaffirm their commitment to cease their sit-in.

They declined to do so and

decided to continue the sit-in, although they did end their hunger strike.

The University has talked frequently with the students from the very outset, and has earnestly and patiently sought a resolution of the issues they have raised.

"As chancellor, I have a responsibility to all of our students and the entire University community, not just to the students occupying South Brookings," Wrighton said in an e-mail to the University community April 18.

"In good faith, we have provided a plan and a process that begins to address the wage and benefit concerns for lower-paid contract workers. I hope all in our University community will join us in working toward its implementation."

At *Record* presstime (5 p.m. April 20), the sit-in students were still occupying South Brookings Hall and Brookings Quadrangle.

Updates and Wrighton's e-mails to the University community on this issue are available online at news-info.wustl.edu/news/page/normal/5068.html.

Employment

Go online to hr.wustl.edu (Hilltop Campus) or medicine.wustl.edu/wumshr (Medical Campus) to obtain complete job descriptions.

Hilltop Campus

For the most current listing of Hilltop Campus position openings and the Hilltop Campus application process, go online to hr.wustl.edu. For more information, call 935-5906 to reach the Human Resources Employment Office at West Campus.

Asst. Dean 050181

Asst. Dir. for Disability Resources 050099
Assoc. Dir., Chief Physician 050176
Coord., Student Involvement/Multicultural Spec. 050178
Asst. Dean Undergrad Prog. & Advising 050184
Coord. Of Experimental Computing 050186
Admin. Asst. 050187

Medical Campus

This is a partial list of positions in the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit résumés to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Medical Asst. II 051050
RN Staff Nurse 051095
Research Dietetic Technician 051105
Patient Billing Service Rep. I 051128
Patient Billing Service Rep. I 051129
Secretary III 051135
Research Patient Asst. 051140

Notables

School of Law to present alumni awards

By JESSICA MARTIN

The School of Law will celebrate the outstanding achievements of six individuals today at its annual Distinguished Alumni Awards Dinner at The Ritz-Carlton.

Presenting the awards will be Dean Joel Seligman, J.D., the Ethan A.H. Shepley University Professor.

Distinguished Law Alumni Award recipients are Steven N. Rappaport, Barry S. Schermer, John C. Shapleigh and Raymond P. Wexler.

Alan B. Bornstein and Linda M. Martinez will receive Distinguished Young Law Alumni Awards.

Rappaport is being recognized for his wide-ranging career accomplishments and contributions to the University community.

He is a member of the law school's national council and past chair of the Strategic Planning Advisory Committee. Rappaport also serves on the executive committee of the University's New York Regional Cabinet and on the Parents Council.

A partner in RZ Capital LLC, a New York firm specializing in private equity investments, Rappaport serves as lead director and chair of the Audit Committee of the Credit Suisse Mutual Fund Complex; director of Presstek Inc.; and director in a number of other private entities.

Schermer is being honored for his outstanding career achievements and contributions to the law school.

He is serving his second 14-year term as a judge on the U.S. Bankruptcy Court, Eastern District of Missouri. He is nationally known and respected in the field of bankruptcy law and speaks at national conferences each year.

He has ruled on many high-profile cases, including the reorganizations of Apex Oil and Trans World Airlines.

Schermer remains heavily involved in the law school. For 15 years, he has co-taught a Chapter 11 seminar. For the past nine years, he has taught "Fundamentals of Bankruptcy."

He has also supervised dozens of law students in judicial externships and has hired a number of graduates as his full-time judicial clerks.

Shapleigh, being recognized for his success as a lawyer and entrepreneur, helped start two St. Louis-based fiber-optic telecommunications network companies: Brooks Fiber Properties Inc. and LDX Net Inc.

He also was counsel to former Missouri Gov. Christopher S. Bond; an associate with Lewis, Rice & Fingersh LC; and chair of the Missouri Public Service Commission. He directed the National Telecommunications and Information Administration Telecom 2000 project for the U.S. Assistant Secretary of Commerce for Telecommunications, led the Association for Local Telecom Services and chaired the Competitive Telecom Association's board.

Shapleigh chairs the Hospice Foundation of Greater St. Louis, which was established by his father, John B. Shapleigh II, to educate consumers, doctors and other professionals about the benefits of hospice care for a more natural end of life.

Shapleigh is a member of the law school's national council.

Wexler is being honored for his career achievements.

He is a partner in the Chicago-based firm of Kirkland & Ellis, where he specializes in corporate tax law. Wexler is internationally recognized for his expertise in cross-border transfer pricing, foreign tax-credit utilization, and the double-tax provisions of international tax treaties.

A founding director of the International Tax Forum, he has tried numerous cases in the U.S. Tax Court, as well as argued cases before various federal courts of appeals and the U.S. Supreme Court. He was the lead trial counsel in the landmark cases General Motors Corp. v. Commissioner and Keystone Consolidated Industries Inc. v. Commissioner.

Wexler is a member of the law school's national council.

Bornstein is being honored for his professional achievements in law and real estate.

A partner in the St. Louis office of Sonnenschein Nath & Rosenthal, his practice includes acquisitions, joint ventures and syndications. Since 2000, Bornstein has spent the majority of his time developing real estate projects.

In addition to his practice, Bornstein served as an adjunct professor in the School of Law's Graduate Tax Program from 1985-1995, teaching selected topics in real estate taxation. He is past president of Aim High, a children's summer education program, and is responsible for the formation of the Sonnenschein Scholars Foundation.

Bornstein chairs the Eliot Society committee at the law school, serves as a member of the national council and sits on the advisory board for the Center for Interdisciplinary Studies.

Martinez is being recognized for her extensive professional and civic endeavors.

As a partner with Bryan Cave LLP in St. Louis, she focuses on development and related federal, state and local incentives. These include major public, private and public/private partnerships for public facilities, museums and sports and entertainment complexes, as well as for industrial, health care, manufacturing and multifamily housing facilities.

She has been recognized as the 2004 Woman of the Year by the *St. Louis Daily Record*, as a YWCA Special Leader, and as one of the *St. Louis Business Journal* 100 Leaders for the Millennium. Martinez has also been included in the *Business Journal's* annual list of community and influential leaders since 2001.



American Indian Awareness Week

ABOVE: Winnebago Tribe member John Snowball performs during the 15th annual powwow April 9 in the Field House. The powwow, which featured an arts and crafts show, an expanded drum circle and a special stomp dance exhibit, was the final event of American Indian Awareness Week. This year's festival celebrated the 15th anniversary of the Kathryn M. Buder Center for American Indian Studies at the George Warren Brown School of Social Work, one of the most respected institutes in the nation for the academic advancement and study of American Indian issues related to social work.

BELOW: *Nations on Trail*, a series of painted panels inspired by American Indian art and everyday life, was on display in the School of Social Work library during the week. Nardi Hobler created the panels as a gesture to show respect for the native people of North America.



Association of Women Faculty bestows awards

By ANDY CLENDENNEN

The Association of Women Faculty presented its annual Graduate Student Awards to Michele Johnson and Tara Sinclair on April 14 in the Mildred Lane Kemper Art Museum.

The award was designed to recognize women students in their second year of graduate study or beyond who demonstrate scholarly excellence and leadership potential.

Johnson is a fourth-year graduate student in the Evolution, Biology and Population Program of the Division of Biology and Biomedical Sciences.

Jonathan B. Losos, Ph.D., pro-

fessor of biology in Arts & Sciences, nominated Johnson, writing that her research is "at the forefront of evolutionary biology."

Johnson's work addresses the role that habitat structure plays in determining the social organization of a species. In addition to her qualifications as a researcher, the selection committee for the award was impressed by her active efforts to recruit more women to the graduate program in biology and to involve the faculty in such efforts.

Sinclair is in her final year of study in the doctoral program of the Department of Economics in Arts & Sciences.

Her work centers on macro-economic fluctuations in the labor market, such as unemployment and pension contracts. She has been an active participant in top academic conferences and is a member of the American Economic Association Committee on the Status of Women in the Economics Profession.

Steven Fazzari, Ph.D., professor and chair of economics, and James Morley, Ph.D., assistant professor of economics, nominated Sinclair, noting in their letter that she is an outstanding teacher and a leader among her fellow graduate students.

For more information, go online to artsci.wustl.edu/~awf.

Roediger honored by Purdue with 'Roddyfest'

It might sound like a wrestling match, but when Purdue University recently hosted a conference called "Roddyfest," some of the nation's top minds were in attendance.

"Roddyfest: Directions in Memory Research," honored Henry L. "Roddy" Roediger III, Ph.D., an internationally recognized scholar of human memory function and the James S. McDonnell Distinguished University Professor.

Roediger served as chair of the Department of Psychology in Arts & Sciences from 1996-2004, when he was named dean of academic planning in Arts & Sciences.

After earning a doctorate from Yale University, he became an assistant professor at Purdue in 1973.

"Roddy helped establish Purdue's reputation in memory research by expanding the cognitive area of study," said James Nairne, conference coordinator and the Distinguished Professor of Psychological Sciences at Purdue. "Thanks to his work in the 1970s, Purdue has continued to attract and support great researchers in the memory field."

Roediger's research interests include such topics as how people can suffer memory illusions and false memories (remembering events differently from the way they happened or remembering events that never happened at all), implicit memory (when past events affect ongoing behavior without one's awareness) and, most recently, applying cognitive psychology to improving learning in educational situations.

Roddyfest featured presentations by some of the nation's leading memory experts, including and array of colleagues from the WUSTL psychology faculty: Endel Tulving, Ph.D., the Clark Way Harrison Distinguished Visiting Professor of Psychology; professors David A. Balota, Ph.D., Larry L. Jacoby, Ph.D., and Mark A. McDaniel, Ph.D.; and Assistant Professor Kathleen B. McDermott, Ph.D.

"I was very flattered for my friends at Purdue to hold a conference in my honor, although it did lead people to wonder if I were retiring prematurely, at 57," Roediger said. "I had to assure everyone that I am going strong and plan to continue my research and writing for many more years."

Obituary

Popkin, professor emeritus of philosophy

By NEIL SCHOENHERR

Richard H. Popkin, Ph.D., professor emeritus of philosophy in Arts & Sciences, died Thursday, April 14, 2005 in Santa Monica, Calif., of emphysema complications. He was 81.

Popkin was appointed as a visiting professor at the University in 1972 and became a regular member of the Department of Philosophy in 1973. He earned a doctorate from Columbia University in 1950 with a dissertation titled "The Neo-Intuitivist Theory of Mathematical Logic."

Among his many honors, Popkin was the Clark Professor at the University of California, Los Angeles, the Woodruff Professor at Emory University, was awarded the Nicholas Murray Butler Medal by Columbia University and was a fellow of the American Academy of Arts and Sciences.

Popkin was internationally known for his work in the history of skepticism that revolutionized scholarship on the origins of

modern philosophy and science.

Popkin was author of *Philosophy and the Human Spirit* with Avrum Stroll, *The History of Skepticism From Erasmus to Spinoza*, *The High Road to Pyrrhonism* and *Isaac La Peyrère (1596-1676): His Life, Work, and Influence*.

He attracted mainstream readers with such books as his 1966 *The Second Oswald: The Case for a Conspiracy Theory*, about the John F. Kennedy assassination.

Popkin also garnered much attention for the 1998 book he co-wrote with David S. Katz, *Messianic Revolution*, about radical religious politics at the millennium.

After retiring as professor emeritus in 1986, Popkin published *The Third Force in Seventeenth-Century Thought* and was editor of *Skepticism in the History of Philosophy* and co-editor of *Skepticism and Irreligion in the Seventeenth and Eighteenth Centuries*.

Survivors include his wife, Juliet; a son, Jeremy; two daughters, Margaret and Susan; and five grandchildren.

Washington People

Although he was born in the Far East, Dan Riew grew up in the Midwest. He lived in Korea until he was 7, when his parents brought their family to the United States because they felt it would be a better place to get an education.

"When we first came, it was difficult because we couldn't communicate with anybody," he says. "Fortunately, it doesn't take long to learn the language when you're a kid, but when we got off the plane, none of us knew any English."

Riew's parents put a great value on education, actually moving the family thousands of miles in pursuit of educational opportunities. He believes American parents and educators place a greater emphasis on creating a well-rounded person, whereas the focus in Korea back then was on getting the best grades and making it into the best colleges.

Riew did well in that department. He got into Harvard University.

The lifestyle at Harvard in Cambridge, Mass., was much different than life in the town of Akron, Ohio, where Riew lived.

"There were lots of people



Dan Riew, M.D., associate professor of orthopaedic surgery and chief of cervical spine surgery, discusses a case with an orthopaedic surgery resident outside the OR. "Dan is perhaps the finest physician I have ever met," says Ken Yamaguchi, M.D., associate professor of orthopaedic surgery. "He has a unique combination of book smarts, inherent clinical judgment, surgical ability and compassion that allow him to excel in caring for patients."

An amazing medical ability

Inherent clinical judgment and compassionate patient care define Dan Riew as an orthopaedic surgeon

By JIM DRYDEN

from big cities like Chicago, Los Angeles and New York, and I probably learned as much from other students as I did from my coursework," he says.

At first, Riew wasn't sure what he wanted to be. He thought about becoming a trial lawyer and took pre-law courses, but thought the grading was somewhat subjective.

Science, he reasoned, would offer a more objective approach, so he also took pre-med courses. Now as an associate professor of orthopaedic surgery, he says he's learned that science and medicine aren't necessarily clear-cut, either. But he's never regretted his decision to pursue medicine.

And that may have something to do with his family. Although he didn't decide to study medicine until he was in college, Riew had a positive image of what it meant to be a physician. His maternal grandfather had been a pediatrician and general practitioner in Korea.

"In the late 1950s and early '60s, there were a lot of very poor people in Korea," he recalls. "As a kid I can remember people bringing him gifts because they didn't have money. He was a very kind man, and he taught me that medicine was a great profession."

From heart to spine

Riew knew he wanted to work in academic medicine, but he didn't go into orthopaedic surgery right away. Although he liked orthopaedics during medical school at

Case Western Reserve University, Riew also enjoyed an elective course that he took with a semi-retired cardiologist, and he spent his days looking at electrocardiograms and learning about the heart. The course convinced him to pursue the field.

"Dan was described by his mentor as the most effective fellow he had ever trained. He is an amazing technical surgeon, easily in the top 1 percent of surgeons I've ever been associated with."

RICHARD H. GELBERMAN

After medical school, he did an internship in internal medicine and completed an internal medicine residency and cardiology research fellowship at Cornell Medical Center. He was planning to continue that research at Harvard when he realized he really didn't want to be a cardiologist.

"I had this epiphany," Riew recalls. "I suddenly knew I should have gone into orthopaedics and done what I loved first. At first I thought it was too late to change, but then I started thinking that I had another five years of research and training ahead in cardiology, which was about the same length of time as an orthopaedic surgery residency."

In retrospect, he says his training in both specialties has made him a better doctor. One of his friends, Ken Yamaguchi, M.D., a shoulder and elbow specialist and associate professor of orthopaedic surgery at Washington University, agrees.

"Dan is perhaps the finest physician I have ever met," says Yamaguchi, who was an orthopaedic surgery resident with Riew at George Washington University. "He has a unique combination of book smarts, inherent clinical judgment, surgical ability and compassion that allow him to excel in caring for patients."

To complete his training, Riew did a fellowship in spine surgery with renowned spine specialist Henry Bohlman, M.D., at the University Hospitals of Cleveland.

About the same time, Richard H. Gelberman, M.D., the Fred C. Reynolds Professor and head of orthopaedic surgery at Washington University, was trying to re-

cruit a spine surgeon. Because of the reputation of Bohlman-trained spine surgeons, Gelberman was hoping to convince one of those trainees to become part of the new Department of Orthopaedic Surgery at the University.

"Dan was described by his mentor as the most effective fellow he had ever trained," Gelberman recalls. "He is an amazing technical surgeon, easily in the top

States and Europe.

Riew says he expects the cervical artificial discs to be approved by the Food and Drug Administration by 2007.

Family values

Riew met his wife, Mary, on a blind date. After a friend met her at an engagement party, he told Riew he'd just met the woman Riew was going to marry.

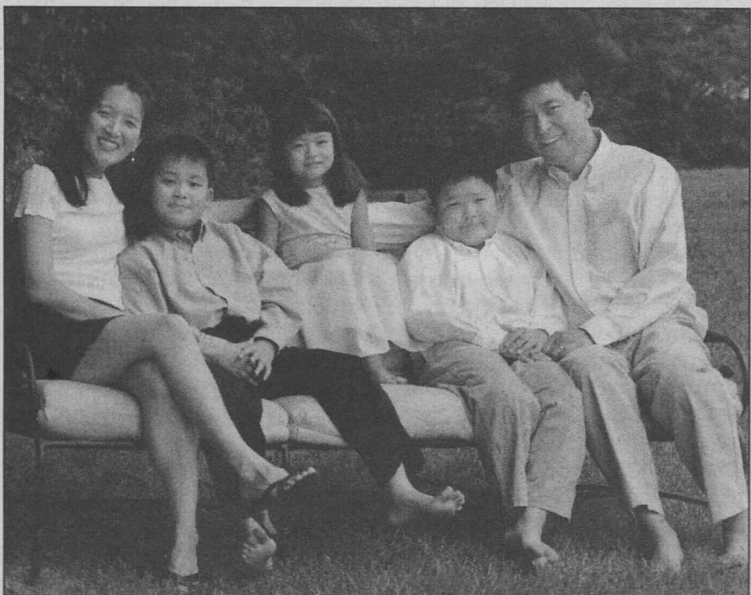
"He told me I had to call her, but I didn't," he says. "In fact, I lost the phone number, so my friend went back and begged to get her number again. When he came back to my apartment, he wouldn't leave until I called to get a date with her."

They've been married since 1992 and have three children: Bradley, 10; Grant, 8; and Julia, 6. When he's not in the clinic or the operating room working with the more than 2,200 patients he sees each year, Riew cherishes the time he can spend with his wife and kids. As much as possible, weekends are preserved for family time, whether it's taking walks, riding bikes, enjoying music or just relaxing.

Because Riew frequently travels for work, he tries to take his family along whenever possible for brief vacations. Whether it's skiing, hiking or sightseeing, they make an effort to do things together. Often, they also get together with Riew's extended family.

His parents and sisters also live in the Midwest. In fact, that was one of the reasons Riew wanted to work at the University.

"I wanted to settle in Akron or Cleveland or somewhere in the Midwest because I like this part of the country," he says. "St. Louis actually is a little further west than I would have chosen, but it's been wonderful. It's a great place to raise a family."



When he's not caring for patients, Riew loves to spend time with his family; wife, Mary, and kids, (from left) Bradley, Julia and Grant.

1 percent of surgeons I've ever been associated with."

Riew is slightly more modest about his skills.

"If a person does the same operations over and over again, hundreds of times a year, he or she is likely to develop some level of proficiency," he says. "I've tried to sub-specialize in as small an area of the body as I can. Rather than being pretty good at 50 different operations, I wanted to be very good at about 10. So I only work with patients who have cervical spine problems."

A pain in the neck

There's a reason the phrase "a pain in the neck" is so frequently used. Neck and back problems are among the most common reasons for doctor visits. As chief of cervical spine surgery at the University and Barnes-Jewish Hospital, Riew spends many of those visits talking his patients out of surgery.

"Surgery is the option of last resort," he says. "I'll tell people to try physical therapy or medication or cortisone shots. Only in about 5 percent of cases will I tell a person to have surgery on the first office visit. Those are the patients who are at risk for paralysis or already are partially paralyzed by a neck injury."

Riew's research involves finding ways to preserve motion in neck surgery patients. In recent years, that pursuit has involved investigating artificial disc replacement rather than fusion surgery. It's been two years since he implanted an artificial disc into his first patient. That patient is doing very well, as are many who have received artificial discs in the United

Dan Riew

Born: July 28, 1958, in Seoul, South Korea

Education: A.B., General Studies, Harvard University; M.D., Case Western Reserve University School of Medicine

University positions: Associate professor of orthopaedic surgery and chief of cervical spine surgery

Family: Wife, Mary, and children, Bradley, Grant and Julia

Hobbies: Bike rides, enjoying music and traveling with his family