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Record

April 8, 2005

Volume 29 No. 28



Washington University in St. Louis

5 to receive honorary degrees at Commencement

One holds an Albert Lasker Award for Basic Medical Research; another a record three National Book Critics Circle Awards. One built a state-of-the-art biomedical research facility; another helped build one of the nation's finest collections of modern and contemporary art.

From a 28-year member of Congress to a member of the American Academy of Arts and Sciences, the five notable people selected to receive honorary degrees during the University's 144th Commencement May 20 all stand out in their respective fields.

During the ceremony, which will begin at 8:30 a.m. in Brookings Quadrangle, the University

will also bestow academic degrees on more than 2,300 students.

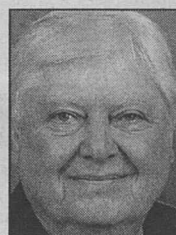
Richard A. Gephardt, former U.S. House minority and majority leader, will deliver the Commencement address and receive an honorary doctor of humane letters degree.

The other honorary degree recipients and their degrees are:

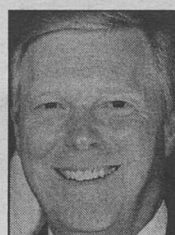
- William H. Gass, Ph.D., the David May Distinguished University Professor Emeritus in the Humanities in Arts & Sciences, doctor of humanities;
- Emily R. Pulitzer, founder and chairman of the Pulitzer Foundation for the Arts in St. Louis, doctor of humanities;
- Robert G. Roeder, Ph.D., the

Arnold O. and Mabel S. Beckman Professor of Biochemistry and head of the Laboratory of Biochemistry and Molecular Biology at Rockefeller University, doctor of science; and

• James E. Stowers Jr., co-chairman of the Stowers Institute for Medical Research in Kansas City and founder and current board member of American Century Companies Inc., a leading investment manager, doctor of science.



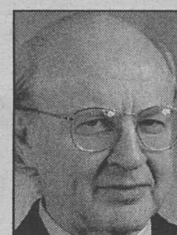
Gass



Gephardt



Pulitzer



Roeder



Stowers

Gass is a world-renowned author and literary critic. He was the founder (in 1990) and first director of the University's International Writers Center in Arts & Sciences — now known as The Center for the Humanities.

He is the author of *Omensetter's Luck* (1966), *In the Heart of*

the Heart of the Country and Other Stories (1968), *Willie Master's Lonesome Wife* (1968), *Fiction and the Figures of Life* (1971), *On Being Blue* (1976), *The World Within the Word* (1978), *Habitations of the Word: Essays* (1985), *The Tunnel* (1995).

See Degrees, Page 6

Tennessee Williams 'blue book' & poem are discovered

BY LIAM OTTEN

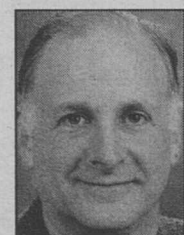
A piece of literary history has returned to the University, thanks to a fortuitous find in a New Orleans bookstore.

The story begins in February 2004, when Henry I. Schvey, Ph.D., professor and chair of the Performing Arts Department in Arts & Sciences, directed (with Shelley Orr) the world premiere of *Me, Vashya*, a one-act play written in 1937 by then-WUSTL student Tennessee Williams, as part of an international symposium on Williams' early career.

Me, Vashya, which remains unpublished, famously placed fourth in a campus playwriting contest — a bitter disappointment to the young Williams, who stormed into his professor's office before storming out of St. Louis altogether, expunging the play from his list of works and the University from his 1975 *Memoirs*.

Yet the reception of *Me, Vashya* was not the only factor in Williams' decision to leave school. As biographer Lyle Leverich reports in *Tom: The Unknown Tennessee Williams* (1995), the playwright was deeply concerned about an upcoming final examination in Greek. In a May 30, 1937, journal entry, Williams complains of "Blue devils all this morning" and concludes, "Tomorrow Greek final

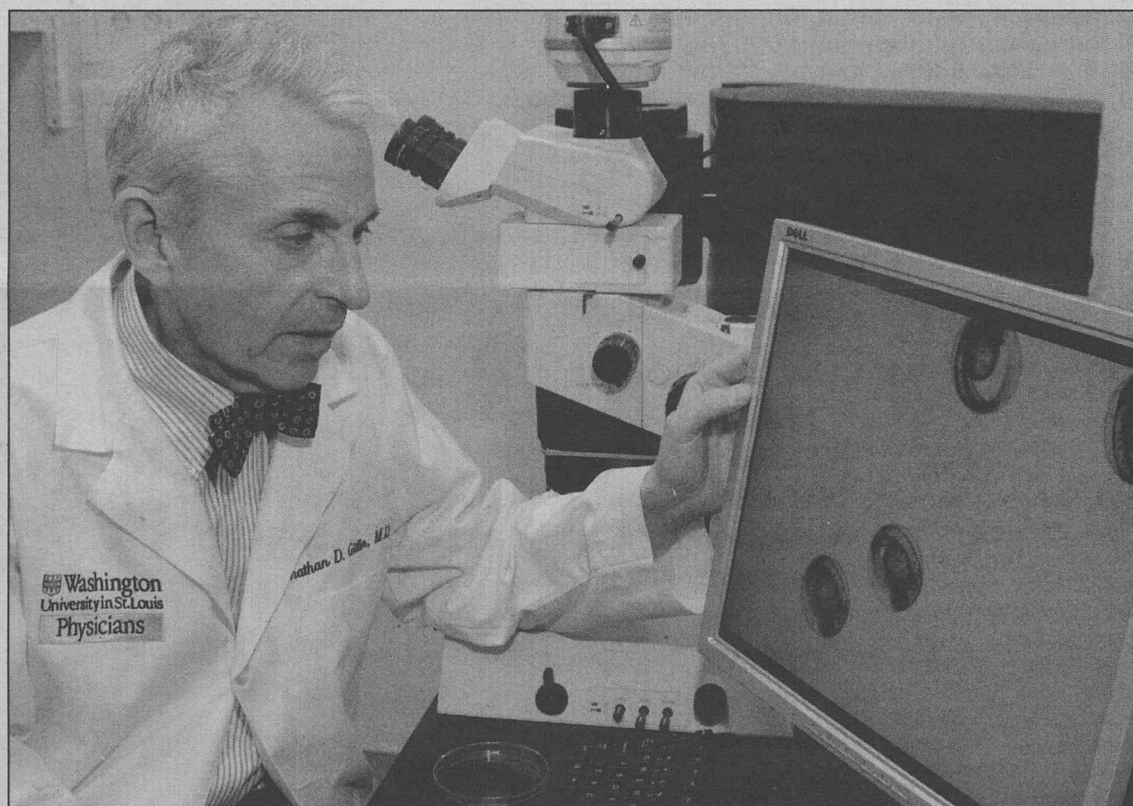
which I will undoubtedly flunk."



Schvey

Schvey — visiting New Orleans to present a paper at the 2004 Tennessee Williams Scholars' Conference only weeks after *Me, Vashya's* debut — was of course familiar with this background. He was thus perhaps uniquely qualified to recognize the significance of a small blue test booklet he found while perusing a collection

See Williams, Page 6



Jonathan D. Gitlin, M.D., director of the new Division of Genetics and Genomic Medicine in the Department of Pediatrics, analyzes zebrafish embryos, which offer a great model for investigating human development and genetics because of their transparent state. The results of genetic mutations can be readily seen and tracked at the level of the individual cell.

New genetics division seeks to transform pediatric patient care

BY GWEN ERICSON AND KIM LEYDIG

The separate worlds of patient care and genomic science will be brought together in the new Division of Genetics and Genomic Medicine in the Department of Pediatrics at the School of Medicine.

Plans for the division map out a model of individualized medical care in which physicians look to a patient's genetic makeup to determine the most effective treatment.

"We've unraveled the human genome, and in that genetic blueprint are answers to medical problems," said Jonathan D. Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics, professor of genetics and director of the new division. "Right now it isn't possible to get all the answers we need and apply them to patients, but this division will establish a structure with which to begin that effort."

The division will receive research grants and support from the School of Medicine and St. Louis Children's Hospital.

"St. Louis Children's Hospital has made a unique commitment by pledging financial support to the University for the new division at the School of Medicine as part of a new research collaboration to be announced later this year," said Alan L. Schwartz, Ph.D., M.D., the Harriet B. Spoeher Professor, head

of the Department of Pediatrics and pediatrician in chief at Children's Hospital.

"Hospital President Lee Fetter recognizes that an investment in the research programs stimulated by the Division of Genetics and Genomic Medicine will bring a strong return in the form of innovative care and new therapies."

The new division's goals mesh perfectly with Bio-Med 21, the University's strategic research initiative that aims to translate basic genetic data into new therapies and includes faculty from the schools of Medicine, Engineering & Applied Science and Arts & Sciences.

Gitlin foresees the change to genetically based medicine as the inevitable next step in medical care. This shift is as ambitious as the U.S. decision to enter the space race in the 1960s, Gitlin asserted, and will produce a new approach to patient care that brings information from disparate fields together.

In effect, it will bring to the bedside of each patient dozens of research specialists — from genomic scientists to developmental biologists, as well as medical specialists from a wide variety of fields, such as oncology, cardiovascular disease and psychiatry.

As a result, patients will receive more effective care. Instead of hit-or-miss treatments that work for

See Pediatrics, Page 6

Neandertal protein is sequenced

BY NEIL SCHOENHERR

An international team led by researchers at WUSTL and at the Department of Human Evolution of the Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany, have extracted and sequenced a 75,000-year-old protein from a Neandertal found in Shanidar Cave in Iraq.

This is the oldest human protein ever sequenced.

"This research opens up the possibility of getting detailed protein information from past human populations, to make inferences about the evolution of human diet and physiology," said Erik Trinkaus, Ph.D., the Mary Tileston Hemenway Professor of Physical Anthropology in Arts & Sciences.

Trinkaus is considered by many to be the world's most influential scholar of Neandertal biology and evolution. He conducted extensive fieldwork at Shanidar Cave and is one of the authors of a paper published in the *Proceedings of the National Academy of Sciences*.

It is rare to recover a protein of this age and remarkable to be able to determine its amino acid sequence.

Protein sequences may be used in a similar way to DNA — to provide information on the genetic relationships between extinct and living species. As ancient DNA rarely survives, this new method opens the possibility of determining these relationships in much older fossils that no longer contain DNA.

The research



Trinkaus

presents the sequence for the bone protein osteocalcin from the Neandertal as well as osteocalcin sequences from living primates (humans, chimpanzees, gorillas and orangutans).

The team found that the

See Neandertal, Page 7



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School of Medicine ranked 3rd in nation by *U.S. News*

Top-20 status held by 16 University graduate-level, professional programs

Washington University's School of Medicine is rated the third-best medical school in the nation, according to this year's *U.S. News & World Report* rankings of graduate and professional programs released April 1.

The School of Medicine ranked third after Harvard University and Johns Hopkins University, which moved into the second spot in this year's ranking. The No. 4 slot went to the University of Pennsylvania.

The report also revealed the WUSTL School of Medicine's students had the highest undergraduate grade-point averages and the highest scores on medical school entrance exams.

Additionally, the medical school ranked second in grant dollars from the National Institutes of Health per faculty member.

"This is the eighth consecutive year the School of Medicine's students have had the highest undergraduate grade-point averages and highest scores on medical school entrance exams," said Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "The medical school has remained in the top 10 since *U.S. News* began the annual rankings in 1987."

Numerous specialty areas at the medical school also were listed among the nation's best. Internal medicine and pediatrics ranked sixth in the nation, the drug and alcohol abuse program tied for 12th, and the AIDS program tied for 19th.

In this year's overall medical school standings, the rest of the top 10 are, in descending order: University of California, San Francisco; Duke University; University of Washington; Stanford University; University of Michigan; and Columbia University.

The WUSTL School of Law was tied with the University of Notre Dame for 24th after being tied for 20th in 2004.

"The School of Law continues to be bunched with a very tightly contested group of schools in the rankings process," said Dean Joel Seligman, J.D., the Ethan A.H. Shepley University Professor.

"While we are disappointed to have dropped somewhat in our overall ranking, we are proud that our Clinical Education Program is now ranked third in the nation and our Intellectual Property and Technology Law Program is tied for 19th, our highest historical rankings in these areas. We also are pleased that our International Law Program was recognized with a 16-place ranking."

Also rising were the Olin School of Business and the School of Engineering & Applied Science.

The School of Business was ranked 32nd, up from a 39th-place tie last year.

Stuart I. Greenbaum, Ph.D.,

dean of the Olin School and the Bank of America Professor of Managerial Leadership, said:

"I'm pleased at the positive momentum suggested by the seven-place jump in the Olin School's *U.S. News* ranking."

"However, the school's position remains inconsistent with the ranking of our part-time M.B.A. (11th) and executive M.B.A. (16th) programs as well as the No. 11 placement for Olin's B.S.B.A. program. Forbes most recently ranked the Olin School's full-time M.B.A. 12th."

"The variability among rankings reflects both compression and measurement idiosyncrasies that ultimately cloud as much as they clarify."

The engineering school was ranked 34th — compared with 36th in 2004 — in a tie with North Carolina State University, Rensselaer Polytechnic Institute and the University of Virginia.

"The School of Engineering & Applied Science strives every day of the year to improve the educational experience we offer our students," said Dean Christopher I. Byrnes, Ph.D., the Edward H. and Florence G. Skinner Professor of Systems Science and Mathematics. "It's always good to see that our efforts are being recognized."

The Department of Education in Arts & Sciences, competing in a field of schools rather than departments, rose from a tie at 55 last year to 40th in 2005, in a tie with the University of Delaware.

William F. Tate, Ph.D., professor of education and chair of the department, said: "We are pleased with this recognition of improvement by *U.S. News* and attribute our rise in the rankings to several factors, including increased productivity of faculty and the addition of outstanding new hires, an increase in funded research, improvement in the quality of graduate students, and our commitment to maintain one of the lowest student-teacher ratios among graduate education schools and programs."

"In addition, we are very proud to note that our Department of Education in Arts & Sciences is the only department ranked in the top 40 in graduate education by *U.S. News*. All others in the top 40 are separate schools of education."

Altogether, WUSTL has 16 schools, departments or programs listed in the top 20 rankings, including women's health, 11th; biomedical engineering, 14th; cognitive psychology, 11th; political science, 16th; and political methodology, ninth.

The newsstand book, *America's Best Graduate Schools*, hit newsstands April 4. Many of the 2005 rankings are in the April 11 *U.S. News* magazine, already available at newsstands.

The most current rankings for all WUSTL schools, departments and programs is online at news-info.wustl.edu/rankings.

"We are very proud to note that our Department of Education in Arts & Sciences is the only department ranked in the top 40 in graduate education by *U.S. News*. All others in the top 40 are separate schools of education."

WILLIAM F. TATE

'Dream Big' at annual Thurtene Carnival

By NEIL SCHOENHERR

More than 120,000 people from the St. Louis area are expected to attend the annual Thurtene Carnival from 11 a.m.-8 p.m. April 16-17.

This year's theme is "Dream Big: Live the Magic!"

Proceeds from the event, the oldest and largest student-run carnival in the nation, will benefit Lift for Life, a nonprofit organization that provides St. Louis City at-risk children with the tools to develop their character, intellect and ambition through innovative, individualized educational and recreational programs.

"This year's carnival has the participation of more student groups than ever before," said Katie Greenbaum, public relations chair of this year's Thurtene Junior Honorary.

"With seven student productions, 18 rides and multiple food and games booths, the carnival will be sure to provide something for everyone."

"In addition, we have many more performances on the main stage, including one from the children from Lift for Life."

More than 50 student organizations will take over the Athletic Complex Parking Lot for the event, presented by members of Thurtene Junior Honorary, 13 juniors who bear responsibility for the continuation of the tradition.

The first carnival was held May 9, 1907. It evolved from a circus to a vaudeville show in its

Carnival causes parking-lot closures

Thurtene Carnival has caused several parking-lot closures on the Hilltop Campus.

Lot 28, the surface lot north of the Athletic Complex, is completely closed and will reopen April 11.

Lots 30, 31 and 32, and a portion of lot 33, the Tao Tennis Center lots, will completely close at midnight

tonight and will reopen April 19.

In Lot 4, the surface lot east of Whitaker Hall, at the corner of Skinker and Forest Park Parkway, 14 spaces are unavailable and will reopen April 11.

For more information, go online to transportation.wustl.edu.

— Neil Schoenherr

early years. Rides appeared in 1914, when a "freshman-powered Merry-Go-Round" was featured.

In 1935 — after a few years off and some festivals in other forms — a revival of the carnival by the Thurtene Honorary saw the inception of what we recognize as Thurtene Carnival today.

Admission to the event is free, though tickets must be purchased for rides and some plays.

The week preceding the carnival, dubbed "Lot Week," receives recognition from the state of Missouri through an official declaration from the governor as "Thurtene Carnival Week." The week features students working around the clock to raise facades and practice plays.

As always, the Thurtene Honorary will present awards at the conclusion of the carnival for best production, the Buckley award for best construction of a facade, best food and best game

booth.

Also to be awarded are the prestigious Chancellor's Charity Cup for the highest donation to charity, and the most-coveted Burmeister Cup, for best overall participation in the carnival.

Corporate sponsors of this year's Thurtene Carnival include Scion, Kaplan Test Preparation and Ackerman Toyota.

Other members of Thurtene Junior Honorary 2005 are Sarah Beth Berry, Colin Carroll, F. Morgan Davis, David Garland, Jonathan Garr, Marshall Harris, Michael Hektner, Jonathan Kramer, Brittany Packnett, Karl Riley, Brittney Roetzel and Margaret Threadgill.

Jim Burmeister, executive director of University relations and Commencement, is continuing his longstanding role as Thurtene's adviser.

For more information, go online to thurtene.org.

Construction Update



Construction continues on the Phase IVA Housing project just east of Liggett Residence Hall on the South 40. Completion and occupancy is scheduled for August.

Construction Update is published periodically and provides information about the progress of major building and renovation projects. Information is provided to the *Record* by facilities management.

Phase IVA Housing

Construction is progressing well on the Phase IVA Housing project just east of Liggett Residence Hall on the South 40, although inclement weather has affected some of the progress.

Time is being recovered on the roof work and interior-finish scheduled activities; and the mechanical and electrical rough-in is continuing.

Masonry has started on the west side of the building and utility work continues.

Completion and occupancy are scheduled for August.

Sam Fox Arts Center

At the southeast corner of the Hilltop Campus, the site work continues on the east-side

sewer. The west foundation walls, interior footings and column work are continuing.

The north foundation walls have begun. The north annex footings are complete.

Completion and occupancy are expected in late spring 2006.

Social Sciences/School of Law Building

The programming and planning for the new building at the east end of parking lot No. 31, between Anheuser-Busch Hall and Simon Hall, is under way.

University Center

The programming and planning for the new building in the vicinity of parking lot No. 34, just west of Mallinckrodt

Student Center, is under way.

MetroLink

The Metro board of commissioners recently approved a revised schedule, budget and project-management plan for the Cross County MetroLink Extension Project.

Larry Salci, Metro president and chief executive officer, reported that Metro now estimates the final cost of the project to be between \$646 million and \$676 million.

He also said the extension is expected to be completed between Sept. 1-Oct. 31, 2006.

Editor's note: Information on Medical Campus projects was not made available to the Record by prestime.

School of Medicine Update

Prostate cancer screening methods may reduce deaths

By GWEN ERICSON

Initial results from an ongoing study evaluating prostate cancer screening practices demonstrate that the combined use of both standard tests — the prostate-specific antigen (PSA) blood test and the digital rectal exam (DRE) — is optimal for detecting cancer.

The results also confirm that the massive, nationwide study is well-designed to show whether current screening practices reduce death from prostate cancer.

The researchers presented their analyses of the study in two papers, one in the March 16 issue of the *Journal of the National Cancer Institute* and the other in the March issue of the *Journal of Urology*.

Begun in 1993 and continuing until 2019, the study is part of the Prostate, Lung, Colorectal and Ovarian (PLCO) Cancer Screening trial being conducted by researchers at the School of Medicine and several other insti-

tutions to assess the effectiveness of cancer screens.

"We don't know for certain whether prostate cancer screening saves lives," said Gerald L. Andriole Jr., M.D., head of the Division of Urologic Surgery. "The PLCO study follows about 75,000 men — half screened by PLCO and half getting conventional care."

"By comparing the groups over the long term, we'll be able to determine what difference screening makes in survival rates."

Uncertainty about the need for prostate cancer screens stems from several factors. PSA and DRE tests can be inaccurate, giving both false negatives and false positives.

In addition, neither test indicates how aggressive the cancer is. Furthermore, because prostate cancers grow slowly in many cases and treatments can have unpleasant side effects, treating the disease may be less desirable than leaving it alone, especially in



"We don't know for certain whether prostate cancer screening saves lives. ... By comparing the groups over the long term, we'll be able to determine what difference screening makes in survival rates."

GERALD L. ANDRIOLE JR.

older men.

The PLCO study has screened 34,244 men, ages 55-74, for prostate cancer and followed their subsequent medical history.

About 14 percent of the men had positive screening results, indicative of possible cancer.

Approximately 8 percent screened positive by PSA test, and about 7 percent screened positive by DRE test.

Only about 1 percent of these results overlapped, demonstrating the importance of using both screening methods.

"We were hopeful some years ago that men could just have the PSA blood test because men hate the rectal exam," Andriole said. "We've found that if you omit the DRE, you'll miss a certain percentage of cancers."

Men were advised to consult their own physicians for treatment if either of the tests performed by PLCO was suggestive of cancerous growth.

Three-fourths of the men with positive PLCO screens followed up with their personal physicians. These physicians decided

whether to perform a biopsy, which is needed to confirm the presence of cancer.

The initial data indicate that younger men, men with a family history of prostate cancer and African-American men are more likely to have a biopsy after an abnormal screening result.

"The biopsy statistics parallel many medical recommendations and reassure us that good judgment is being applied to the evaluation of the initial screen by physicians," Andriole said. "So we are confident that when the study is ultimately completed, it will truly measure the effect of current medical practices."

Overall, 1.4 percent of the men screened were subsequently diagnosed with prostate cancer by tissue biopsy.

The majority of men with prostate cancer had localized cancers. About 10 percent had more serious advanced forms. These advanced cancers were linked to higher PSA numbers and suspicious DRE results.

Old drug shows promise against common childhood brain tumors

By MICHAEL C. PURDY

Scientists studying a common childhood brain tumor have uncovered a pleasant surprise: evidence that the tumors may be vulnerable to a class of drugs that have been used for years.

"We identified a new target for chemotherapy in these tumors, and we don't have to start from scratch because these drugs are already approved chemotherapy agents," said senior investigator David H. Gutmann, M.D., Ph.D., the Donald O. Schnuck Family Professor of Neurology, professor of genetics and of pediatrics and co-director of the neurooncology program at the Siteman Cancer Center.

Gutmann and his colleagues conducted the study using a mouse brain tumor model of a human condition known as neurofibromatosis 1, a common genetic disorder that makes children prone to brain and other cancers.

In a study published in the April 1 issue of *Cancer Research*, the team reported evidence that the drug rapamycin normalizes growth rates of brain cells of mice with a mutation in Nf1, the gene linked to human neurofibromatosis 1.

"The same pathway that rapamycin acted on in the mouse cells also is abnormally activated in neurofibromatosis-associated brain tumors from human patients, so we're very excited about the possibility that this may be an effective treatment in children with neurofibromatosis 1," said Gutmann, who also is the director of the neurofibromatosis clinical program at St. Louis Children's Hospital.

Previously, researchers had been trying to treat tumors associated with neurofibromatosis 1 by shutting down the activity of a family of molecules known as RAS. One of the normal roles of the Nf1 gene is to deactivate RAS; however, studies have shown that anti-RAS therapies have not been very effective treatments in people with neurofibromatosis 1.

"RAS was the most logical place to start, but it was becoming obvious that additional therapeutic targets must be sought," Gutmann said.

So he teamed up with Jason

Weber, Ph.D., assistant professor of medicine and of cell biology and physiology, to take an unbiased look at how dysfunction in the Nf1 gene changes protein expression in astrocytes, the cells from which brain tumors associated with neurofibromatosis 1 develop.

"We went looking for other cellular pathways that Nf1 might regulate in addition to RAS," Weber said. "We compared normal astrocytes and astrocytes that lack Nf1 expression to learn which proteins are abnormally expressed or activated as a consequence of Nf1 loss."

Weber worked with Biplab Dasgupta, Ph.D., and Yijun Yi, Ph.D., both postdoctoral fellows in Gutmann's laboratory.

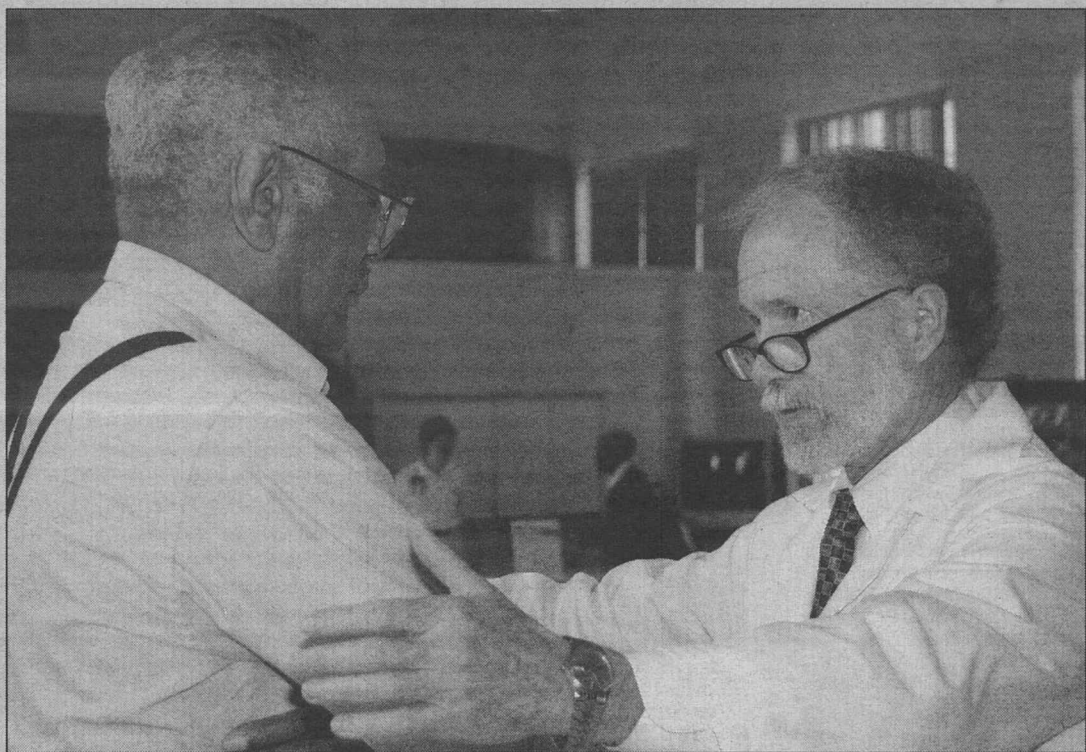
They found unusually high levels of expression of several key proteins in the Nf1-deficient astrocytes. The proteins they identified were involved in a process called translation control, which directs the production of protein from messenger RNA.

Collectively, the proteins that control this function are regulated by the mammalian target of rapamycin (mTOR) pathway. The drug rapamycin inhibits the pathway.

Although mTOR had been linked to other tumor types, scientists had not previously identified its connection to neurofibromatosis 1. Doctors have used rapamycin and its analogues for years to treat other tumor types, in which the mTOR pathway is overactivated.

"The next logical step is to begin treating the Nf1 brain tumor-prone mice with rapamycin," Gutmann said. "If we are effective at treating the mouse tumors, we have every reason to believe this may be equally effective for treating patients with brain tumors associated with neurofibromatosis 1."

Gutmann noted that the identification of mTOR pathway and the discovery of the effect of rapamycin on Nf1-deficient astrocyte growth highlight the impact of the newly established Washington University Neurofibromatosis Center, which is dedicated to developing better treatments to improve the lives of patients affected with neurofibromatosis.



Reaching out

Above: Stanley J. Birge Jr., M.D. (right), professor of medicine, measures strength and balance for Walter Rice during a free medical screening for older adults at the Tower Village Apartments in North St. Louis.

Right: Monique M. Williams, M.D. (right), instructor of medicine and of psychiatry, counsels George Perry about high blood pressure and diabetes. The screening was the first in a series of community-outreach events planned by the Department of Medicine's Division of Geriatrics and Nutritional Science.



Botox injections may help treat diabetic foot ulcers

By DIANE DUKE WILLIAMS

School of Medicine researchers are seeking volunteers to participate in a study to determine if botulinum toxin (Botox) injections can help heal diabetic foot ulcers.

Seventeen million Americans live with diabetes, and one of the major complications from the disease is foot wounds. Untreated ulcers can lead to infection, and in severe cases, amputation of the feet and legs.

In past studies, patients who underwent surgery to lengthen the Achilles tendon reduced the risk of ulcer recurrence. Lengthening the Achilles tendon, or heel cord, weakened the calf muscle and diminished the pressure on the ball of the foot where ulcers occur.

University researchers decided to see if Botox injections — which have been shown to weaken calf

muscles in other studies — could have the same effect on pressure on the ball of the foot. They postulate that gradual return of pressure and muscle strength will be similar to that experienced by the Achilles lengthening surgery without the complications and costs of surgery.

To qualify for the study, volunteers must have diabetes, be able to walk and have a recurrent foot ulcer.

During five study visits over a two-year period, volunteers will undergo wound-care assessment and evaluation of balance, muscle strength, sensory skills and heel bone density. They will receive Botox injections in the calf muscle during one study visit.

Study participants will be compensated for their time and effort.

The study is being led by Mary Hastings, D.P.T., instructor in physical therapy.

For more information, call Kay Bohnert at 362-2407.

University Events

Lightman to address 'The Physicist as Novelist' April 13

BY CAROLINE BROOME

Alan Lightman, Ph.D., a physicist at Massachusetts Institute of Technology and a popular novelist, will deliver the ArtSci Council, Phi Beta Kappa and Sigma Xi Lecture April 13 for the Assembly Series.

His talk, "The Physicist as Novelist," will begin at 11 a.m. in Graham Chapel.

Throughout his life, Lightman has pursued two intellectual passions, writing and science. In his first novel, *Einstein's Dreams*, published in 1993, Lightman attempts to convey the mind-set of a scientific genius.

The work is set in Bern, Switzerland, in 1905. Einstein, then an unknown patent clerk, is working on the theory of relativity in his spare time. The book describes young Einstein's dreams: visions in which time functions in bizarre ways with startling consequences.

"I feel that to most people, the scientific culture is like a foreign country," Lightman said. "I always enjoy writers who live in a foreign culture and try to convey that to a wider audience. . . . That's something I would like to do with the scientific culture."

Einstein's Dreams became an international best-seller. It has been translated into 30 languages and was a finalist for a National Book Award in fiction.

The book also received wide critical acclaim. The *Sunday London Times* called it "dazzling," and added that "Lightman is exploring fiction's deep space." The *New York Times* said that it "pulls the reader into a dream world like a powerful magnet."

Lightman has written several other novels, including *The Reunion* and *Good Benito*,



Assembly Series

Who: Alan Lightman

What: ArtSci Council, Phi Beta Kappa and Sigma Xi Lecture

Where: Graham Chapel

When: 11 a.m. April 13

as well as science texts and numerous scholarly articles in physics.

Most recently, he published a collection of essays, *A Sense of the Mysterious: Science and the Human Spirit*, which capture his musings on the nature of scientific creativity.

Lightman is known to be especially adept at exploring the relationship among science, art and literature. National publica-

tions such as *The New Yorker* and *Smithsonian* have published his essays.

Since 1989, he has taught physics and has directed the Program for Writing and Humanistic Studies at MIT. He previously taught physics and astronomy at Harvard University.

He graduated from Princeton University in 1970 with a degree in physics. He then earned a doctorate in physics from California Institute of Technology in 1974 and conducted postdoctoral work at Cornell University.

He is a member of the American Physical Society, the American Association for the Advancement of Science and the American Academy of Arts and Sciences.

Assembly Series lectures are free and open to the public.

For more information, go online to assemblyseries.wustl.edu or call 935-4620.

Childhood Obesity • The Fountain of Youth • Powwow

"University Events" lists a portion of the activities taking place April 8-21 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.

Lectures

Friday, April 8

8 a.m. Neurology Grand Rounds. Irwin Levy Lecture. "Progress in the World of Epilepsy: Where's the Excitement?" Daniel H. Lowenstein, prof. and vice-chairman of neurology, U. of Calif., San Francisco. Barnes-Jewish Hosp. Bldg., West Pavilion Aud. 362-7177.

9:15 a.m. Pediatric Grand Rounds. "Diarrheal Disorders in Children — Physiological and Molecular Studies." Faye K. Ghishan, Horace W. Steele Endowed Chair in Pediatric Research and head of pediatrics, U. of Ariz. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Physics Seminar. "Chemical Reactivity of Iron Oxide Nanoparticles." R. Lee Penn, asst. prof. of environmental chemistry, U. of Minn. (10:45 a.m. coffee.) Lopata Hall, Rm. 101. 935-6276.

Noon. Cell Biology & Physiology Seminar. "Signaling Pathways From Cell Surface Proteoglycans to Rho Kinases and the Actin Cytoskeleton." John R. Couchman, prof. of biomedical sciences, Imperial College, London. McDonnell Medical Sciences Bldg., Rm. 426. 362-2254.

12:30-4:30 p.m. St. Louis STD/HIV Prevention Training Center CME Course. "STD Clinician." Cost: \$125. U. of Mo.-St. Louis, South Computer Bldg., Rm. 200A. To register: 747-1522.

2 p.m. American Indian Awareness Week Lecture. "The Campaign for Democracy Around the World: Lessons from Indian Country." Carole Goldberg, prof. of law, U. of Calif., Los Angeles. Anheuser-Busch Hall, Bryan Cave Moot Courtroom. 935-4510.

Saturday, April 9

10 a.m. Physics of the Environment Saturday Series. "Black Gold: America and Oil." Michael Ogilvie, prof. of physics. Sponsored by the Dept. of Physics and University College. Crow Hall, Rm. 201. 935-6276.

Monday, April 11

Noon. Work, Families, and Public Policy Brown Bag Seminar Series. "Toward an Economic Theory of Dysfunctional Identity." Glenn Loury, University Professor of economics, Boston U. Eliot Hall, Rm. 300. 935-4918.

3 p.m. Neuro-Oncology Research Group Seminar Series. Joel Garbow, research scientist in chemistry. McDonnell Medical Sciences Bldg., Rm. 928. 362-7379.

4 p.m. Department of Music Lecture. "Who Owns Music? Laws, Local Perspectives, and Professional Ethics." Anthony Seeger, prof. of ethnomusicology, U. of Calif., Los Angeles. Music Classroom Bldg., Rm. 102. 935-4841.

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.

Upon request, forms for submitting events may be e-mailed, mailed or faxed to departments to be filled out and returned.

University Events lists happenings sponsored by the University or its departments, schools, centers, organizations and recognized student organizations. It usually covers a 13-day time period from the Friday publication date to a week from the next Wednesday.

4 p.m. Immunology Research Seminar Series. Paul E. Lacy Lecture. "How Viruses Get Into Cells: Structures, Mechanisms, Inhibitors." Stephen Harrison, prof. of biological chemistry and molecular pharmacology and of pediatrics, Harvard U. Eric P. Newman Education Center. 362-2763.

Wednesday, April 13

11 a.m. Assembly Series. ArtSci Council, Phi Beta Kappa, Sigma Xi Lecture. "The Physicist as Novelist." Alan Lightman, scientist and author. Graham Chapel. 935-4620.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Using Fe-S Proteins to Program Bacterial Metabolism Under Anaerobic Conditions." Patricia J. Kiley, prof. of biomolecular chemistry, U. of Wisc. Cori Aud., 4565 McKinley Ave. 362-0261.

Thursday, April 14

4 p.m. Chemistry Seminar. "Investigation of Several Routes to CP-724, 714 Utilizing Palladium-catalyzed Cross-coupling Reactions and Their Applications on Kilogram Scale." David Ripin, Pfizer. McMillen Lab., Rm. 311. 935-6530.

Friday, April 15

9:15 a.m. Pediatric Grand Rounds. "The Poetry of Healing." Rafael Campo, asst. prof. of medicine, Harvard U. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell Biology & Physiology Lecture. "Can We Find the Fountain of Youth? Sir2, Glucose Metabolism and Aging in Mammals." Shin-ichiro Imai, asst. prof. of molecular biology & pharmacology. McDonnell Medical Sciences Bldg., Rm. 426. 362-7437.

4 p.m. Music Lecture. "Lewis Spratlan: Work and Works." Lewis Spratlan, prof. of music, Amherst College. Music Classroom Bldg., Rm. 102. 935-4841.

5 p.m. Gastroenterology Lecture. Annual Burton A. Shatz Visiting Professor Lecture. "Innovative Approaches to Colorectal Cancer Screening: Royal Flush or Drop in the Bucket?" David A. Ahlquist, prof. of medicine, Mayo Clinic College of Medicine, Rochester, Minn. Center for

Advanced Medicine, Lvl. 3, Farrell Conf. Rm. 1. 362-2027.

Saturday, April 16

10 a.m. Physics of the Environment Saturday Series. "Nuclear Energy, Waste, Weapons, and Terrorism." Wim Dickhoff, prof. of physics. Sponsored by the Dept. of Physics and University College. Crow Hall, Rm. 201. 935-6276.

Monday, April 18

Noon. Molecular Biology & Pharmacology Seminar. "Maps and Processing Streams in Mouse Visual Cortex." Andreas Burkhalter, prof. of anatomy & neurobiology, of neurologic surgery, and of biomedical engineering. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

Noon. Neurology Monday Noon Seminar Series. Jeffrey Millbrandt, prof. of pathology, immunology, and internal medicine. Maternity Bldg., Schwarz Aud. 747-3243.

4 p.m. Immunology Research Seminar Series. "In Search of Stem Cells in the Normal Stomach and Diabetic Pancreas." Jason Mills, asst. prof. of pathology & immunology. Eric P. Newman Education Center. 362-2763.

4 p.m. Physics Seminar. "Temperature Dependence of Nuclear Quadrupole Coupling Constants in Hydrogen-bonded Systems from Electronic Structure Simulations." Daniel Sbastiani, Max-Planck-Institute for Polymer Research, Mainz, Germany. (3:45 p.m. coffee.) Compton Hall, Rm. 241. 935-6276.

6:30 p.m. Foreign Language Learning Colloquium Series. "Post 9/11: Foreign Languages Between Knowledge and Power." Claire Kramsch, prof. of German and foreign language acquisition, dir. of the Berkeley Language Center, U. of Calif., Berkeley. Women's Bldg. Formal Lounge. 935-5175.

Tuesday, April 19

Noon. Program in Physical Therapy Research Seminar. "Childhood Obesity: Research and Treatment Updates." Tiffany Tibbs, research instructor in psychiatry. 4444 Forest Park Blvd., Lower Lvl., Rm. B108/B109. 286-1404.

12:30 p.m. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Regulation of Expression of Vancomycin Resistance Genes in Enterococcus." Patricia Courvalin, prof. and head of antibacterial agents unit & dir. of the National Reference Center for Antibiotics, Institut Pasteur, Paris. McDonnell Medical Sciences Bldg., Erlanger Aud. 362-3692.

4 p.m. Chemistry Seminar. Annual Leopold Marcus Lecture. "Electronically Coupled MM Quadruple Bonds." Malcolm Chisholm, distinguished professor of mathematical and physical sciences, Ohio State U. Louderman Hall, Rm. 458. 935-6530.

Wednesday, April 20

9 a.m. Annual Shepard Memorial Dental/Otolaryngology Lecture Series. "Orthodontics: The Good, The Bad, and The Ugly." James Vaden, chairman of orthodontics, U. of Tenn., Memphis. Eric P. Newman Education Center. 935-5419.

11 a.m. Assembly Series. Women's Society Adele Starbird Lecture. Sissela Bok, author and Harvard senior visiting fellow. Graham Chapel. 935-4620.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Intracellular Bacterial

Communities in Pathogenesis: A Tactic for Subverting Innate Defenses." Scott Hultgren, prof. of cell biology. Cori Aud., 4565 McKinley Ave. 362-0261.

Thursday, April 21

4 p.m. Chemistry Seminar. "Dioxygen Activation at Monocopper Enzyme Site Models." Christopher J. Cramer, prof. of chemistry, U. of Minn. McMillen Lab., Rm. 311. 935-6530.

Music

Tuesday, April 12

8 p.m. Kemper Art Museum Concert. A Concert on Women's Mental Health Featuring Texts by Sylvia Plath and Emily Dickinson. Presented in conjunction with *Inside Out Loud: Visualizing Women's Health in Contemporary Art*. Steinberg Hall Aud. 935-4841.

Saturday, April 16

8 p.m. Concert. Concert Choir of Washington University. John Stewart, dir. Graham Chapel. 935-4841.

On Stage

Friday, April 8

8 p.m. Performing Arts Department Presentation. *Into the Woods* by Stephen Sondheim and James Lapine. William Whitaker, dir. (Also 8 p.m. 9; 2 p.m. April 10.) Cost: \$12, \$8 for seniors, students, WUSTL faculty & staff. Mallinckrodt Student Center, Edison Theatre. 935-6543.

Sports

Saturday, April 9

All Day. Track & Field. Washington Univer-

sity Select. Francis Field. 935-4705.

1 p.m. Softball vs. Fontbonne U. WUSTL Field. 935-4705.

Monday, April 11

2 p.m. Baseball vs. MacMurray College. Kelly Field. 935-4705.

Wednesday, April 13

4 p.m. Men's Tennis vs. U. of Mo.-St. Louis. Tao Tennis Center. 935-4705.

Tuesday, April 19

4 p.m. Women's Tennis vs. Principia College. Tao Tennis Center. 935-4705.

6 p.m. Men's Tennis vs. Maryville U. Tao Tennis Center. 935-4705.

Wednesday, April 20

4 p.m. Men's Tennis vs. Principia College. Tao Tennis Center. 935-4705.

Thursday, April 21

4 p.m. Men's Tennis vs. McKendree College. Tao Tennis Center. 935-4705.

And more...

Saturday, April 9

Noon-10 p.m. American Indian Awareness Week Powwow. (10 a.m., arts & crafts booths open; 1 & 7 p.m., Intertribal and Contest Dancing.) Athletic Complex. 935-4510.

Friday, April 15

7 p.m. Kemper Art Museum Reading. "An Evening with Poet and Physician Rafael Campo." Rafael Campo, author and physician. 935-4523.

Retirement investment seminars offered by human resources office

BY ANDY CLENDENNEN

The seminars are scheduled as follows:

• **April 19:** Medical Campus, McDonnell Science Building, Cori Auditorium, noon-1:30 p.m.; and Hilltop Campus, Simon Hall, Room 120, 3-4:30 p.m.

• **April 20:** Hilltop Campus, Simon Hall, Room 120, 9-10:30 a.m.; and Medical Campus, McDonnell Science Building, Cori Auditorium, 1-2:30 p.m.

• **April 21:** West Campus, Library Conference Center, Room A/B, 9-10:30 a.m. and noon-1:30 p.m.

Reservations are not required to attend.

For more information, contact your benefits department.

The Office of Human Resources is offering a retirement investment education seminar conducted by consultants from TIAA-CREF and Vanguard.

At each session, there will be a discussion of basic investment choices and a review of simple strategies and concepts needed to make sound investment decisions.

Topics will include:

- Assessing your current financial situation
- Forming a financial plan
- Understanding basic types of investments
- Asset allocation — maintaining diversification



Future Bear? Junior men's basketball player Ian Ashcraft-Williams coaches a young athlete participating in the April 2 "YES Clinic" at the Athletic Complex. The event was an opportunity for approximately 250 area youngsters to learn from college coaches and players — including many from WUSTL — how to excel as student-athletes. The University also hosted the 17th Annual Mountain Dew College Slam Dunk and 3-Point Championships March 31; both events were held in conjunction with the NCAA Final Four at the Edward Jones Dome April 2-4.

Sports

Baseball team ties best-ever start

The baseball team went 8-0 last week to improve to 24-4 overall, tying the best 28-game start in school history.

The Red and Green opened the week March 28 with a 6-1 win against Division II foe University of Missouri-Rolla. WUSTL then swept Maryville University, 4-3 and 14-0, on March 29 at Kelly Field. Junior Kent Wallace pitched a complete game in the first game, and senior Jason Ortwerth followed suit in the second contest.

WUSTL defeated MacMurray College, 14-3, on March 31 in Jacksonville, Ill. Junior Ryan Corning and senior Dan Rieck highlighted the offensive outburst, going 3 for 4 with three RBIs and one home run apiece.

On April 2, WUSTL defeated Knox College, 12-4 and 15-2, at home, and on April 3 it knocked off Knox, 8-7 and 4-0, to run its winning streak to eight games.

Corning batted .600 (15 for 25) for the week with nine RBIs, while Ortwerth pitched two shutouts to improve to 4-0.

Softball team rolls, posts 6-0 week

The No. 2 softball team went 6-0 last week to improve to 27-1 overall.

The Bears opened the week by sweeping Maryville University, 7-0 and 5-2, on March 31 at WUSTL Field. In Game 1, sophomore Laurel Sagartz struck out nine and allowed just one hit to pick up her ninth victory of the season.

The Bears followed that up with two 8-0 victories over MacMurray College on April 2. Sagartz struck out 14 of 15 batters in Game 1 and allowed just one Highlander hit. Sophomore Abby Morgan and freshman Kaylyn Eash held MacMurray to just three hits in Game 2.

Junior Monica Hanono went 3 for 5 with a home run and seven RBIs to lead the Bears to a sweep of Millikin University on April 3. The Bears won Game 1, 8-0, in six innings and then posted a 6-0 win in Game 2. The shutout for the Bears was the fourth straight, and fifth in the last six games. Sagartz improved to 12-1, going six innings and allowing three hits and striking out 10.

Women's track & field takes 1st in invitational

The men's and women's outdoor track and field teams starred at the WUSTL Invitational.

The women won the 20-team event with 141 points, far ahead of the University of Wisconsin-Whitewater's 83 points.

The Bears men took eighth place out of 24 teams.

On the women's side WUSTL won four individual events.

Freshman Tiffany Barbour took first place in the javelin, recording a throw of 34.48 meters (113-1); junior Michelle McCully won the 400-meter run (58.77).

However, senior Maggie Grabow provided the highlight of the day for the women, winning the 10,000. She clocked a 36:03.21, which provisionally qualified her for the NCAA Championships and came just three seconds shy of automatically qualifying.

Additionally, the 1,600-relay squad of McCully, freshman Danielle Wadlington, junior Laura Ehret and sophomore Natalie Badowski recorded a time of 3:56.51 to win the event.

On the men's side, senior Lance Moen placed second in the 400 (49.12) with a team season-best time. Sophomore Kevin Gale took second in the 3,000 steeplechase in 9:26.05, while junior Brennan Bonner took third in 9:28.12.

Women's tennis team splits two matches

The women's tennis team split its two matches last week at home.

The Bears swept McKendree College, 9-0, on March 31, winning all six singles matches in straight sets. Senior Kacie Cook (No. 2), senior Sara Kabakoff (No. 3) and freshman Amy Hsieh (No. 5) each won by the same 6-0, 6-0 score.

On April 2, WUSTL lost, 5-4, to No. 12 Rhodes College. Cook and Kabakoff each picked up wins in singles again, but it was not enough. Sophomore Erin Fleming picked up the only other singles win as the teams split the six matches. Rhodes took two of three in doubles to secure the win.

Kabakoff is a team-best 14-4 this season in singles play.

Men's tennis wins all four matches

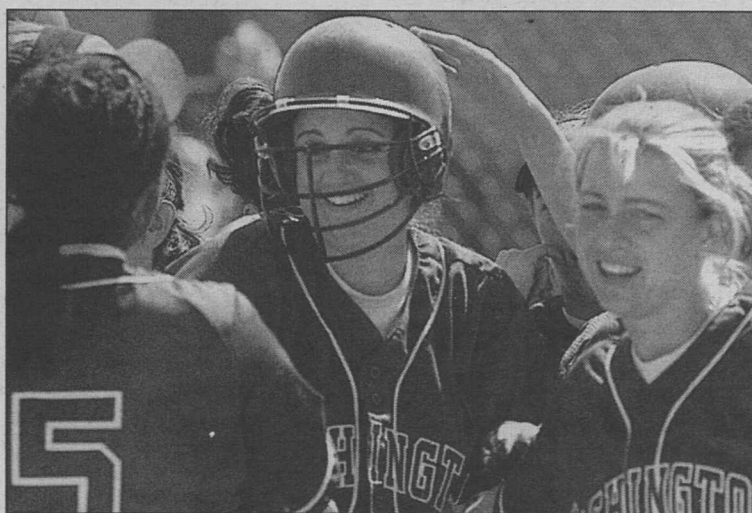
The No. 13 men's tennis team improved to 8-2 overall by winning four matches last week.

The Bears posted a 3-0 record at the Jack Schwartz Invitational April 1-2 at Wheaton College.

The Bears upset No. 11 Carthage College, 4-3, in the opening match of the tournament on April 1. The Bears split the six singles matches, but won all three doubles matches against the Redmen.

WUSTL followed that with a 7-0 win against Illinois Wesleyan on April 1 and then capped off a perfect tournament by defeating Wheaton, 5-2, on April 2.

The Bears, who had just played one home match all season, began a string of four straight home tilts with a 5-2 win over University Athletic Association rival University of Chicago on April 3.



Bears junior Monica Hanono is congratulated by her teammates after hitting a home run against Millikin April 2. WUSTL is now 27-1 and ranked No. 2 in Division III.

Writer, physician Rafael Campo to read April 15

BY LIAM OTTEN

Aclaimed writer and physician Rafael Campo will read from his work at 7 p.m. April 15 at the Mildred Lane Kemper Art Museum.

Born in 1964 in Dover, N.J., Campo is a graduate of Amherst College and Harvard Medical School.

He teaches and practices general internal medicine at Harvard Medical School and Beth Israel Deaconess Medical Center in Boston, where his medical practice serves mostly Latinos; gay, lesbian, bisexual or transgendered people; and people with HIV infection.

Campo is the author of *The Other Man Was Me* (1994), which won the 1993 National Poetry Series Award; *What the Body Told* (1996), which won a Lambda Literary Award for poetry; and *The Poetry of Healing: A Doctor's Education in Empathy, Identity, and Desire* (1997), a collection of essays (available in paperback as *The Desire to Heal*), which also won a Lambda Literary Award for memoir.

Other books include *Diva* (1999), a finalist for the National Book Critics Circle Award, the Paterson Poetry Prize and Lambda Literary Awards for poetry;

Landscape With Human Figure (2002), which won the Gold Medal in poetry from *ForeWord* magazine; and, most recently, *The Healing Art: A Doctor's Black Bag of Poetry* (2003).

Campo's poetry and prose have appeared in many major anthologies, including *Best American Poetry 1995*, as well as in prominent periodicals, including *The Lancet*, *The Nation*, *The New England Journal of Medicine*, *The New York Times Magazine*, *Out*, *The Paris Review*, *The Progressive* and the *Washington Post Book World*.

His numerous honors include a Pushcart Prize; a John Simon Guggenheim Foundation fellowship; the annual Achievement Award from the National Hispanic Academy of Arts and Sciences; and an honorary Doctor of Literature degree from Amherst College.

His talk is free and open to the public and is sponsored by The Center for the Humanities and The Writing Program, both in Arts & Sciences, in conjunction with the Kemper Art Museum exhibition *Inside Out Loud: Women's Health in Contemporary Art*, on display through April 24. The museum is part of the Sam Fox School of Design and Visual Arts.

For more information, call 935-5576.

Music department performance to feature works by Emily Dickinson, Sylvia Plath

BY LIAM OTTEN

The Department of Music in Arts & Sciences will present "A Concert on Women's Mental Health" at 8 p.m. April 12 at the Mildred Lane Kemper Art Museum.

The concert, which will feature compositions based on texts by Sylvia Plath and Emily Dickinson, is free and open to the public and will be held in conjunction with the exhibition *Inside Out Loud: Visualizing Women's Health in Contemporary Art*, on display through April 24.

Mezzo-soprano Deborah Stinson, a master's graduate in vocal performance who has also taught in the music department, will perform three selections by Aaron Copland — "Heart, We Will Forget Him," "The World Feels Dusty" and "I've Heard an Organ Talk Sometimes" — drawn from a set of 12 songs Copland based on works by Dickinson. The pianist will be Scott Schoonover, musical director and conductor of Union Avenue Opera Theatre.

Soprano Tamara Miller-Campbell and clarinetist Paul Garrison, both instructors in applied music, will perform *Ariel*, a suite of five songs — "Words," "Poppies in July," "The Hanging Man," "Poppies in October" and "Lady Lazarus" — by Ned Rorem,

based on poems from Plath's posthumous 1965 collection of the same title. The pianist will be Henry Palkes, staff accompanist in the Department of Music.

Palkes will also join mezzo-soprano Noël Prince, instructor in applied music, and Tod Bowermaster, a hornist with the Saint Louis Symphony Orchestra, for a setting of Plath's *Lorelei* by Juliana Hall.

Finally, the Saint Louis Women's Chorale, directed by Schoonover, will present a set of five songs: Pablo Casals' "Nigra Sum," based on texts from the Bible's "The Song of Solomon"; Daniel Gauthrop's "Mary Speaks"; Morten Lauridsen's "Dirait-on"; Joan Szymko's "Variations on a Theme by Rilke"; and the Polish folk song "Dwa Serduszkas."

Inside Out Loud is the first major survey of contemporary American art to explore critical issues relating to women's health. More than 30 campus and community partners have joined with the Kemper Art Museum to present close to 70 events relating to women's health throughout the spring.

For a complete schedule, contact Stephanie Parrish at 935-7918 or stephanie_parrish@wustl.edu.

The Kemper Art Museum is part of the Sam Fox School of Design and Visual Arts. For more information, call 935-4841.

Campus Watch

The following incidents were reported to University Police **March 30-April 5**. 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 4

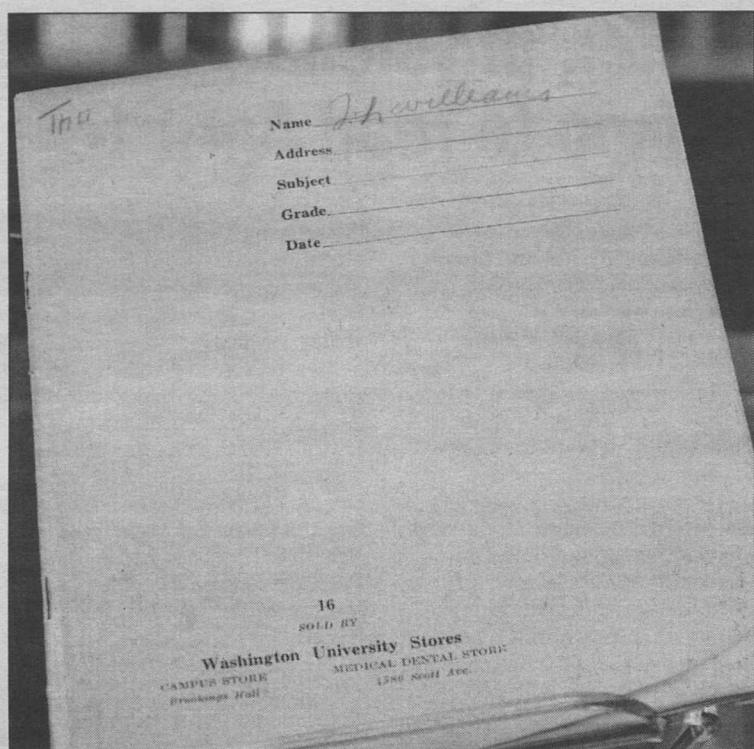
4:49 p.m. — A person reported his parking permit was stolen from his convertible while parked inside of Millbrook Parking Garage sometime between noon-6 p.m. March 31.

April 5

2:49 a.m. — A student stated that between 1:10-2:15 a.m., an unknown person took an un-

cured bike, which the student had borrowed from a friend, from the bike rack located on the east side of the Women's Building. The bike is described as an orange beach cruiser.

Additionally, University Police responded to two parking violations and one report each of a drug offense, fire alarm, damaged property and an administrative call.



This examination "blue book" was used by the legendary Tennessee Williams during a Greek final at WUSTL in 1937. The blue book was discovered by Henry I. Schvey, Ph.D., professor and director of the Performing Arts Department in Arts & Sciences, in a New Orleans French Quarter bookstore. In addition to translations for his final exam, in the book Williams wrote a 17-line poem titled "Blue Song," believed to never have been published.

Williams

Poem inside blue book titled 'Blue Song'

— from Page 1

of rare Williams-related materials at Faulkner House Books, a prominent French Quarter bookshop.

"I knew instantly what it was," Schvey said of the booklet. "It was his Greek exam."

Schvey explains that the booklet, which closely resembles those still used by students today, is plainly labeled as being sold by the "Washington University Stores" and bears the name "Th. Williams" — significant in that Williams did not adopt the nickname "Tennessee" until several years after leaving St. Louis. (Williams' real first name was Thomas.)

Inside, Schvey found a series of Greek-to-English and English-to-Greek translations, with individual grades ranging from A- to C+, C-, D+ and D.

More startlingly, he also found a 17-line, pencil-written poem.

Still visible is an initial title, "Sad Song," which Williams lightly erased and replaced with the more contextually appropriate "Blue Song" — a witty double-reference to the author's mood and medium.

"The poem was presumably written at the time of the examination," Schvey noted, adding that, as far as he has been able to

determine, "Blue Song" has never been published and, indeed, was entirely unknown to Williams' scholars.

"It is clearly the work of a young man who doesn't know his next move in life," Schvey said.

"Williams always felt uprooted in St. Louis, a feeling he describes here in very lyrical terms, in lines like, 'If you should meet me upon a street do not question me for/ I can tell you only my name/ and the name of the town I was/ born in ...'"

"I found it very moving."

Schvey quickly alerted Anne Posega, head of Special Collections at the University, to his discovery. Posega in turn arranged for Special Collections, which also houses the *Me, Vashya* manuscript, to purchase the booklet.

(In an interesting coincidence, Special Collections also recently received a substantial gift of Williams-related publications — including signed first editions, foreign-language editions, critical monographs, biographies, interviews and other materials — from Fred W. Todd, a Williams scholar based in San Antonio.)

Schvey, meanwhile, is thrilled that the blue booklet has returned to campus.

"The booklet is a significant artifact of Williams' life in St. Louis, while the poem reflects a period of great anxiety and tribulation," Schvey said.

"Bringing it back to St. Louis and to Washington University — in a way, things have come full circle."

Degrees

Gass, Gephardt, Pulitzer, Roeder & Stowers honored

— from Page 1

Finding a Form (1996), *Cartesian Sonata* (1998), *Reading Rilke* (1999) and *Tests of Time* (2003).

He has won several major literary awards during his career, including the National Book Critics Circle Award an unprecedented three times: in 1985 for *Habitations of the Word: Essays*; in 1996 for *Finding a Form*; and in 2003 for *Tests of Time*.

He also won the 1997 Lannan Lifetime Achievement Award, the 2000 PEN/Nabokov Award and the PEN/Nabokov Lifetime Achievement Award, which he has called his "most prized prize."

Gass, who retired from teaching in 1999, was elected to the American Academy of Arts and Sciences in 1982 and to the American Academy and Institute of Arts and Letters in 1983.

He received an American Academy and Institute of Arts and Letters Award for Fiction in 1975 and Medal of Merit for Fiction in 1979.

Gephardt grew up in the same working-class neighborhood on the south side of St. Louis that he represented in Congress for 28 years.

A two-time presidential candidate, Gephardt has served as both majority and minority leader for Democrats in the U.S. House of Representatives.

Ranked as one of the nation's leading Democrats for much of the last two decades, he is known for his expertise on economic issues and foreign affairs, and as a tireless advocate of fairness, justice and opportunity for every American.

In Congress, Gephardt worked to promote economic and personal security by strengthening bedrock commitments to the American people, especially Medicare and Social Security.

He also led efforts to raise the minimum wage; curtail rollbacks of affirmative action; pass the McCain-Feingold campaign-finance reform legislation; include labor and environmental standards in U.S. trade agreements; block White House efforts to roll back arsenic standards in drinking water; win passage of environmental legislation to clean up brownfields; and secure protections for family farms.

Gephardt stepped down from public office in 2004.

In February, the University announced the establishment of the Richard A. Gephardt Institute for Public Service in his honor.

Its goal is to encourage people,

especially students and older citizens, to become involved in public service.

The University is in the process of forming an advisory board for the institute, and Gephardt will serve as its chair.

Pulitzer is an internationally respected curator, collector and patron of the visual arts.

Over the past four decades, she has helped shape the cultural landscape of St. Louis and the nation through a series of important exhibitions, programs and organizations.

She arrived in St. Louis in 1964 as curator of the Saint Louis Art Museum, where her almost decade-long tenure was marked by a succession of prescient acquisitions and exhibitions.

In 1982, she co-curated the Whitney Museum of American Art's *Ellsworth Kelly: Sculpture* and co-organized Richard Serra's sculpture commission *Twain* (1982) for downtown St. Louis. In 1986, she co-founded "Arts in Transit," a program in which artists worked with architects and engineers to design a new light rail system.

Origins of the Pulitzer Foundation for the Arts date back to 1988, when the Fogg Art Museum exhibited selections from the renowned collection of modern and contemporary art that Pulitzer had built with her husband, Joseph Pulitzer Jr., then the editor and publisher of the *St. Louis Post-Dispatch*.

Shortly thereafter, the couple selected future Pritzker Prize winner Tadao Ando to design permanent exhibition facilities.

Unfortunately, Joseph Pulitzer died in 1993; however, construction began in 1996, and the facility opened in 2001 to international acclaim.

Paul Goldberger, architecture critic for *The New Yorker*, called it "the greatest work of architecture to go up in St. Louis" since Louis Sullivan's Wainwright Building in 1891.

If DNA is the library of life, and the genes contained within DNA are books, Roeder's scientific accomplishments have played pivotal roles in unveiling the library staff — the hundreds of molecules that determine when the books are read.

These molecules are the primary mechanisms that turn genes on and off, controlling when and where information is read from DNA and put to use in the body. Selectively activating genes is essential to many important biological processes.

The senior member of this metaphorical library staff is an enzyme known as RNA polymerase. In 1969, Roeder discovered and described the structures of three versions of this molecule.

Largely through a new tech-

nique for studying gene activation that he developed, Roeder has also revealed multiple intricate networks of many different molecules that can bind to or otherwise interact with DNA, RNA polymerase, and each other to control the activities of families of genes.

The basic knowledge Roeder has gathered has enormous potential for clinical benefit in fields ranging from cancer to genetic disorders to infectious diseases.

Roeder was a member of the biochemistry faculty at the WUSTL School of Medicine from 1971-1982, for a time serving as the James S. McDonnell Professor of Biochemistry. He joined the Rockefeller University faculty in 1982.

Roeder's many honors include the 2003 Lasker Award for Basic Medical Research, a prize informally known to many as the "American Nobel."

Stowers' father and grandfather were Kansas City physicians. Stowers, who earned a bachelor's degree from the University of Missouri, had planned to become a doctor, even completing a two-year degree in medicine.

However, he was drawn to business.

After working as a mutual-fund salesman, Stowers launched his own company in 1958 with four employees, a base of 12 investors, two mutual funds and initial assets of only \$107,000.

Today, with a staff of 1,800, American Century manages \$96 billion in assets for more than 1.6 million shareholders.

Having achieved success in the financial world, Stowers decided he wanted to give back something more valuable than money to the millions of people who helped make him successful.

He and his wife, Virginia, who are both cancer survivors, wanted to help people enjoy a healthier life, so in 1994 they created the Stowers Institute for Medical Research.

The institute aspires to be one of the most innovative biomedical research organizations in the world. Scientists at the state-of-the-art facility conduct basic research on genes and proteins that control fundamental processes in living cells to unlock the mysteries of disease and find the keys to their causes, treatment and prevention.

Since his initial donation in 1994 of \$50 million in American Century stock to start the institute, the Stowers have contributed several more gifts and have taken an active role in designing and managing the center. The institute's endowment is currently worth more than \$2 billion.

Pediatrics

Six faculty members to be hired for division

— from Page 1

some patients but not others, genomic medicine will one day offer precise treatments that work with the unique physiology of individual patients.

"For example, the most important advance in asthma care in the next decade will come out of understanding the genetics of asthma," Gitlin said. "Why are certain children susceptible to asthma? Why do certain children respond to asthma medications and others don't? At the core, those answers come from each child's genetics."

To understand the genetic basis for diseases requires researchers to compare genes from thousands of people. The sheer amount of information is massive, and translat-

ing that data to medical treatments will necessitate cooperation and collaboration.

"We're starting this at Washington University because of the breadth of talent here," Schwartz said, "including of course, the Genome Sequencing Center and the Center for Genome Sciences, and the strong support of the medical school leadership, especially Dean Larry Shapiro, who believes it is important for us to take medicine in this direction."

Because many of the antecedents to adult diseases such as type 2 diabetes and cardiovascular disease begin early in childhood, Gitlin and Schwartz say they believe the Department of Pediatrics — which ranks fourth nationally in research funding by the National Institutes of Health — provides an ideal foundation from which to launch the new division and to emphasize prevention as a cornerstone of medicine.

Understanding the interaction of genetics and environment that

leads to disease gives pediatricians the opportunity to prevent the onset of diseases in children for which there is currently little hope for treatment.

The new division is gearing up to double its number of faculty by hiring six members who will occupy offices and labs in the McDonnell Pediatric Research Building.

Some faculty members will have interdisciplinary appointments, in genetics and genome sciences, for example, as well as in pediatrics. Gitlin believes the goals of the division will quickly attract seasoned collaborators as well as young physicians and researchers who want to be part of this new direction for medicine and who will be attracted to Children's Hospital's close affiliation with the School of Medicine.

"With this new division, we want to be able to bring everyone together — it's a division without walls — and see if we can develop very far-reaching programs," Gitlin said.

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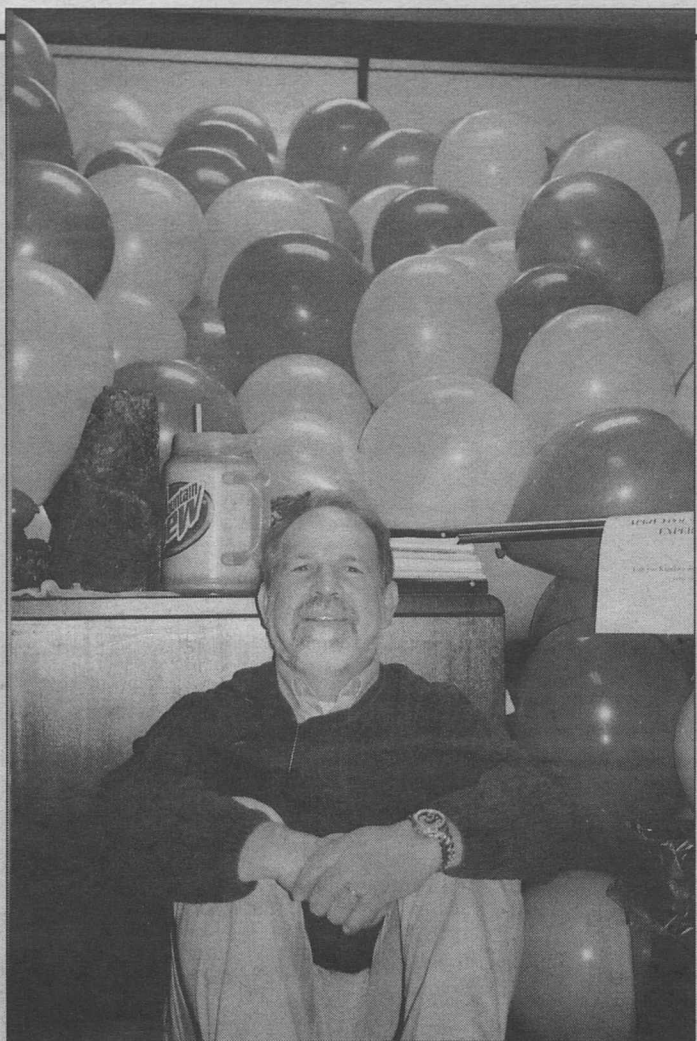
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Washington University in St. Louis

Notables



April Fool's! John Gleaves, Ph.D., associate professor of chemical engineering, sits at a makeshift desk in his Urbauer Hall office, victim of a wicked April Fool's joke perpetrated by his graduate students. Gleaves walked into his office the morning of April 1 to find it filled with balloons. The sign over his left shoulder asks: "Can you Knudsen diffuse your way to your desk?" Knudsen diffusion is the process that governs the movement of molecules in catalysis experiments that Gleaves and his students perform. In a Knudsen pulse response experiment, molecules move randomly and independent of one another through a packed bed of solid particles. The hundreds of balloons his students filled represent a packed bed. Eventually Gleaves played the role of a molecule and made his way to his computer. By the way, his office is now back to normal, he reports.

For the Record

Michael Sherraden, Ph.D., the Benjamin E. Youngdahl Professor of Social Development, has received a one-year, \$50,000 grant from the F.B. Heron Foundation for research titled "Wealth Building in Rural America," and a one-year, \$140,000 grant from the MetLife Foundation for research titled "Productive Engagement of Older Adults Through Volunteering." ...

Shirley J. Dyke, Ph.D., professor of civil engineering, has received a two-year, \$373,599 grant from the U.S. Department of Education for research titled "GAAN Application in Civil Engineering Infrastructure." ...

Joseph Pickard, graduate teaching assistant in social work, has received a two-year, \$40,000 grant from the Gerontological Society of America for being a "Hartford Geriatric Social Work Doctoral Fellow." ...

Richard J. Smith, Ph.D., the Ralph E. Morrow Distinguished University Professor of Physical Anthropology in Arts & Sciences, has received a one-year, \$9,081 National Science Foundation grant for a "Doctoral Dissertation Improvement: Application of the Facial Action Coding System to Nonhuman Anthropoids." ...

Lester K. Spence, Ph.D., assistant professor of political science in Arts & Sciences, has received a one-year, \$25,000 grant from the Center for Information & Research on Civic Learning & Engagement for the "The St. Louis Young Citizenship Study." ...

Jay Turner, Ph.D., associate professor of chemical engineering, has received a two-year, \$225,000 grant from the Lake Michigan Air Directors Consortium for a "Midwest RPO Grant for Regional Haze

Program." ...

Michelle Putnam, Ph.D., assistant professor of social work, has received a one-year, \$25,380 grant from the National Institute on Aging for research titled "Crossing Network Lines: Advancing Coalition Building." ...

David E. Pollio, Ph.D., associate professor of social work, has received a three-year, \$419,780 grant from the National Institute on Drug Abuse for research titled "Family Services for Runaway Homeless Youth." ...

Frank A. Podosek, Ph.D., professor of earth and planetary sciences in Arts & Sciences, has received a one-year, \$115,000 grant from NASA for research titled "Isotopic Structures and Fine-Scale Chronology in Planetary Materials." ...

D. Tab Rasmussen, Ph.D., professor of anthropology in Arts & Sciences, has received a one-year, \$6,000 grant from the National Science Foundation for "Doctoral Dissertation Research: Paleoecology of Ankilite-lo, Southwestern Madagascar: Implications for Late Quaternary Megafaunal Extinctions." ...

Barbara A. Schaal, the Spencer T. Olin Professor of Biology in Arts & Sciences, has received a two-year, \$11,910 grant from the National Science Foundation for "Dissertation Research: Global Alpine Biogeography: Insights from Phylogenetics, Phylogeography and Population Genetics of the Trans-Pacific Alpine Plant Genus *Oreomyrrhis* (Apiaceae)," and a two-year, \$14,000 grant from the National Science Foundation for "Dissertation Research: Population Genetics and Historical Biogeography of *Arabidopsis thaliana* (L.) Heynh."

Campus Authors

Geoff Childs, Ph.D., assistant professor of sociocultural anthropology in Arts & Sciences

Tibetan Diary: From Birth to Death and Beyond in a Himalayan Valley of Nepal

(University of California Press, 2004)

Tibetan Diary evolved from assorted notes that began to coalesce while Childs was doing fieldwork in Nubri, an ethnically Tibetan enclave in the remote highlands of Nepal. The catalyst for the book was one particular event.

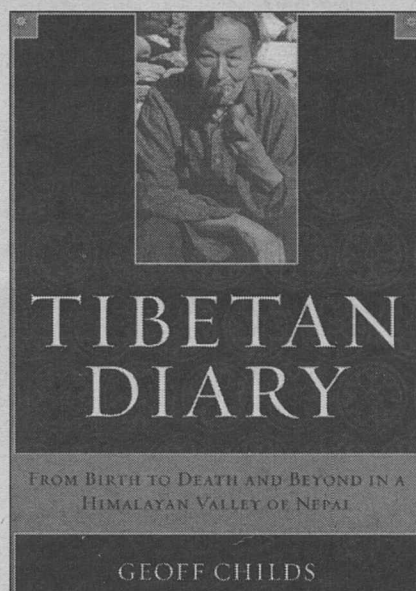
"While confined to my host's humble abode during a three-day blizzard, our neighbors — encouraged by our supply of local distillates — would drop by to relieve their boredom," Childs said. "They exchanged stories of other difficult situations, times when they knew that their lives could be easily snuffed out by the forces of nature."

"During one of these conversations, I remembered an event from the life story of Pema Döndrup, a lama who had lived in Nubri three centuries ago. I always kept a copy of his biography handy, so I extracted it from my trove of documents and began to read aloud Pema Döndrup's recollections of a blizzard that trapped him for weeks inside a mountain hermitage."

"As Pema Döndrup watched his food supply dwindle, he ruminated on the impermanence of life."

"When I finished reading the passage, my elderly host was visibly shaken. He then retold the story of how his only sister, a nun, had been killed by an avalanche at her winter hermitage during a blizzard in the 1950s."

When later recalling such stories, Childs thought about the connections between the past and present, between the lives of lamas preserved in sacred biographies and the lives of the people who live today.



"In rereading my field notes, I discovered other continuities, some relating to childhood and others to the experiences of old age," Childs said. "I therefore decided to write the book and structure it around the concept of the life course, hence, the subtitle."

"Furthermore, I decided that this could be a good introduction to Tibetan society, and so provided a scholarly perspective through the lens of ethnographic analysis."

Whereas other books tend to treat Tibetans as timeless folk whose every thought and action is dictated by Buddhist principles, Childs prefers to treat culture as an environment that informs but does not predetermine human behaviors.

"With this in mind, I took the opportunity to explore many of the issues that arise when individual aspirations conflict with social expectations," Childs said. "My intent was to move beyond normative descriptions of Tibetan society by exploring the decisions

that people make to resolve such conflicts, and the consequences of their decisions."

"As a result, the book is more hard-hitting — and less flattering — than many accounts of Tibetan societies."

Instead of focusing exclusively on Pema Döndrup's religious accomplishments, Childs also includes translations from Döndrup's biography that show how he essentially abandoned his elderly parents — leaving them to fend for themselves without a caretaker — in order to pursue his desire to be a hermit and concentrate on spiritual endeavors.

In response to his parents' heart-rending pleas that he remain at home, marry his deceased brother's wife and help support them in old age, Döndrup composed a verse in which he encouraged them to say their prayers and meditate on the emptiness of human existence.

They were not consoled.

"I contrast this with caretakers of the elderly in contemporary Nubri society," Childs said. "Parents often designate a daughter to be a nun who is then permanently beholden to her natal household (she cannot marry out, and there are no convents). As her parents age, she becomes their primary caretaker."

"But who takes care of the aging nun? These, and other questions, are explored in relation to decisions that are made during various stages in the life course."

— Neil Schoenherr

Obituary

H. Richard Duhme, professor emeritus of art

H. Richard Duhme Jr., professor emeritus of art and former head of the sculpture major area, died Thursday, March 24, 2005, at St. Luke's Hospital in Chesterfield, Mo., after a long illness. He was 90.

Born in St. Louis, Duhme attended John Burroughs School and the Pennsylvania Academy of the Fine Arts before coming to Washington University in 1947 as an instructor in sculpture.

In 1953, he earned a bachelor of fine arts (a relatively new degree at the time) from Washington University and in 1964 was named assistant professor of

sculpture. The following year, he was promoted to associate professor and became full professor in 1971. He was named emeritus in 1982.

On campus, Duhme is perhaps best known for his large bronze sculpture *Fighting Bears*, located near the east entrance to the Athletic Complex.

Other St. Louis-area works include sculptures for the Missouri Botanical Garden; Saint Louis Priory School in Creve Coeur, Mo.; and the Carondelet Building in Clayton.

Other major commissions include *Lion Cubs*, a fountain in

Mycenae, Greece; and *St. Martin and the Beggar* at the Episcopal Cathedral of St. John in Erie, Pa., as well as portrait busts of Chancellor Emeritus William H. Danforth and George Kassabaum, among many others.

A memorial service will be at 2 p.m. April 9 at the First Congregational Church of St. Louis, 6501 Wydown Blvd.

Memorial contributions may be made to the charity of the donor's choice.

Duhme is survived by his wife, Carol; a son, David; a daughter, Ann Nelson; four grandchildren; and two great-grandchildren.

Neandertal

Research opens possibility of further fossil sequencing
— from Page 1

Neandertal sequence was the same as modern humans.

The team also found a marked difference in the sequences of Neandertals, humans, chimpanzees and orangutans from the

sequences of gorillas and most other mammals.

This sequence difference is located where the amino acid hydroxyproline is replaced by proline.

The authors suggest that this is a dietary response, as the formation of hydroxyproline requires vitamin C, which is ample in the diets of herbivores like gorillas, but may be absent from the diets of omnivorous primates such as humans and Neandertals, orangutans and chimpanzees.

Therefore, the ability to form proteins without the presence of vitamin C may have been an advantage to these primates if this nutrient was missing from their diets regularly.

This research opens the exciting possibility of extracting and sequencing protein from other fossils, including earlier humans, as a means of determining the relationships between extinct and living species, and to better understand phylogenetic relationships.

Washington People

Ben Sandler's nearly 37-year relationship with the University started innocently enough, in 1966, when he arrived from his role as an English teacher in Maine to do graduate work in English literature.

The choice of WUSTL was an easy one for him.

"The English department had a great reputation," he says, before adding, "and Washington U. was the only school that gave me enough money to live on."

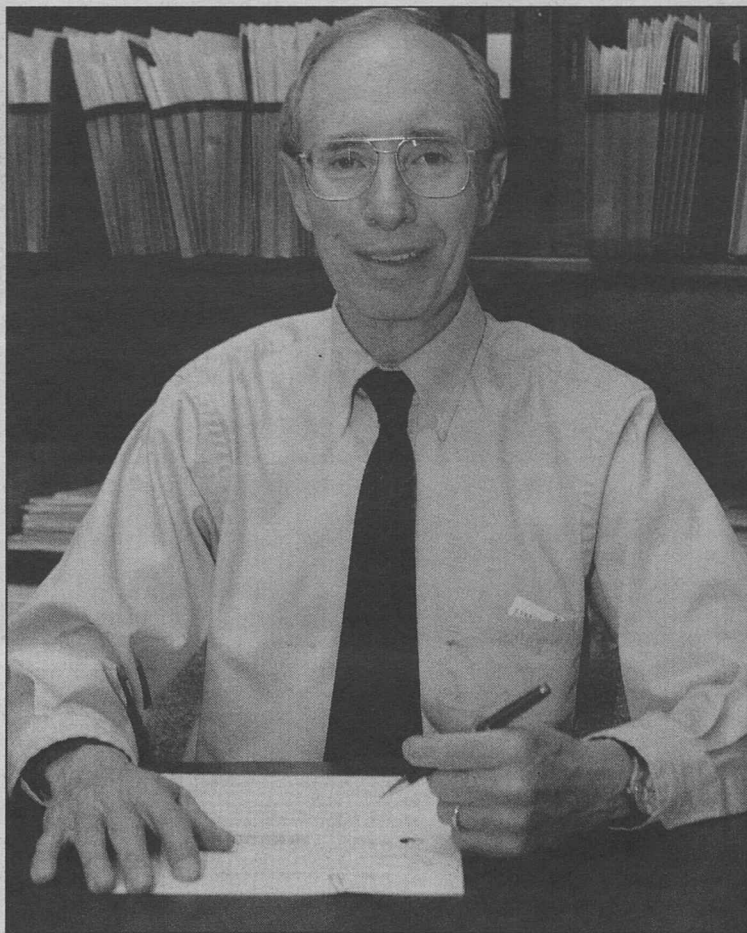
The plan all along was to get a graduate degree and then return to teaching high-school English.

Ah, but the best-laid plans...

Along came Director of Admissions Oliver Wagner, who was looking for an assistant director of admissions and asked Sandler if he'd be interested.

"I thought, 'Well, I'm single and I like to travel,' and flying around the country visiting high schools seemed like a pretty interesting way to spend a year or two," said Sandler, a Hyannis, Mass., native. "So I decided to do it."

"That's not a very noble mo-



Benjamin S. Sandler has served the University in a variety of administrative roles in his nearly 37-year career. "He is a person of the highest integrity who has a deep understanding of, commitment to, and passion for whatever he has taken on," says John Berg, associate vice chancellor for undergraduate admissions.

person of the highest integrity who has a deep understanding of, commitment to, and passion for whatever he has taken on. He has a vast understanding of Washington University, both the big picture and the details, with knowledge of virtually every part of the University. He has made important contributions everywhere he's worked.

"Ben is also a wonderful and patient teacher, and I count myself among the many fortunate people who have learned a lot from him over the years."

In turn, Sandler reciprocates those comments when talking about why he has managed to stay here for so long.

"One reason I've stuck around all these years is that it's never felt as though I worked in just one place," Sandler says. "I've been lucky enough to do a lot of different jobs in the University, and each of those jobs has put me in contact with a different set of personalities and required different skills."

"I've enjoyed most of the work I've done. It's just been fun. I've appreciated the people I've worked with and worked for."

"I have a lot of respect for the leaders of the University — not only the chancellors, but also senior management, board members, deans, department heads, business managers. Many of them are people of extraordinary skill and vision."

"I've also been lucky to work closely with students in the early

administration's budget and overseeing its allocation to the schools, presenting administration and Hilltop Campus school budgets to appropriate committees of the Board of Trustees, developing expense guidelines for federal research projects, negotiating indirect cost rates with the federal government, borrowing for capital projects and helping build a

A man for all seasons

Benjamin S. Sandler has just about done it all in his WUSTL career

BY ANDY CLENDENNEN

tive, but it's the way I got into this work. I was fortunate to get my first exposure to higher education administration in the admissions office. Working there — especially with Ollie Wagner, Maggie Dagen and Ted McDonald as mentors — gave me a perspective that has served me well in all the other jobs I've had here."

Aside from a two-year stint from 1969-1971 teaching English at Lafayette High School in Ballwin, Mo., Sandler has stayed at the University, first rejoining the admissions office — again as assistant director. Just two years later, he became director of financial aid and served in that capacity until April 1986.

"I noticed one day on the bulletin board that the director of financial aid had left," Sandler says. "I was interested in financial aid when I was in admissions, and it looked easy from the outside."

"They hired me, and I quickly learned there was a lot more to it than I realized. But I enjoyed it, and the fit with the requirements of the job turned out to be a pretty good one."

In the years since leaving financial aid, Sandler has served as assistant vice chancellor for budget and institutional studies (1986-1995), University treasurer (1995-

97) and vice chancellor for financial policy (1997-99).

Since 1999, as a part-time employee, Sandler has been special assistant to the chancellor for administration, and University compliance officer.

His run is coming to an end, though. Sandler was honored with a retirement celebration April 5 at the chancellor's residence.

"Ben Sandler has been an outstanding contributor to the advance of Washington University," Chancellor Mark S. Wrighton said. "He has been enormously helpful in strengthening our admissions and financial aid programs, building the financial operations, and most recently developing our compliance program. He has helped craft the Danforth Scholars Program and assisted in its successful launch."

"Ben is a person of uncommon ability, integrity, and support, and I have enjoyed our work together immensely. He will deeply missed, but we know that we can call on him for his wise advice and help — which we will likely need! All who have come to know Ben value his friendship and great support, and we wish him all the best in the next phase of his life."

Sandler's responsibilities have included managing the central

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MARK S. WRIGHTON

University-wide compliance structure.

The University context for Sandler's work has been very broad, ranging from the enrollment challenges of the 1970s and '80s to the management challenges that sometimes come with great success.

"In the '70s and '80s," Sandler observes, "we had to come up with new ways of dealing with financial aid. The schools introduced academic scholarships, and in the financial aid office we began using need-based financial aid in ways our competition didn't, to gain an advantage and find the best balance between meeting our enrollment goals without breaking the scholarship bank. We were forced to design new planning models, and develop automated systems to support them. It was never boring!"

"And one thing I have to say about the University's leadership — it always encouraged independent thinking, finding new ways to tackle old challenges. Not all top universities are like this. From my perspective, this willingness to nurture unconventional approaches is a major reason we've done so well."

"They don't make 'em like Ben Sandler anymore," said John Berg, associate vice chancellor for undergraduate admissions. "He is a

part of my WUSTL career. Later on, I had some opportunities to work with faculty. Even when they haven't wanted to hear what I had to say, their talents and achievements awed me."

"Both experiences are a healthy reminder that students and faculty drive the University's mission, and it's the job of everyone in administration to support them."



Ben Sandler (fourth from left) with family members (from left) son-in-law Tom Brown, granddaughter Megan Brown, daughter Jenny Brown, grandson Trey Brown (on Sandler's lap), grandson Zach Brown, son David Sandler, wife Louise Sandler, daughter-in-law Brittney Sandler, granddaughter Carrie Sandler and George the dog.

Benjamin S. Sandler

Arrived at the University: Sept. 1966

Positions held at WUSTL: Assistant director of admissions; director of financial aid; assistant vice chancellor for budget and institutional studies; treasurer; vice chancellor for financial policy; special assistant to the chancellor for administration, and University compliance officer (part-time)

On Washington University: "I've never been in an academic department, but in some ways the University has not changed. It had quite a strong student body in the late '60s and early '70s. Student bodies got significantly stronger, but it wasn't weak then. The faculty was strong, we had excellent senior leadership, excellent leadership in the medical school, so really there have been several constants."