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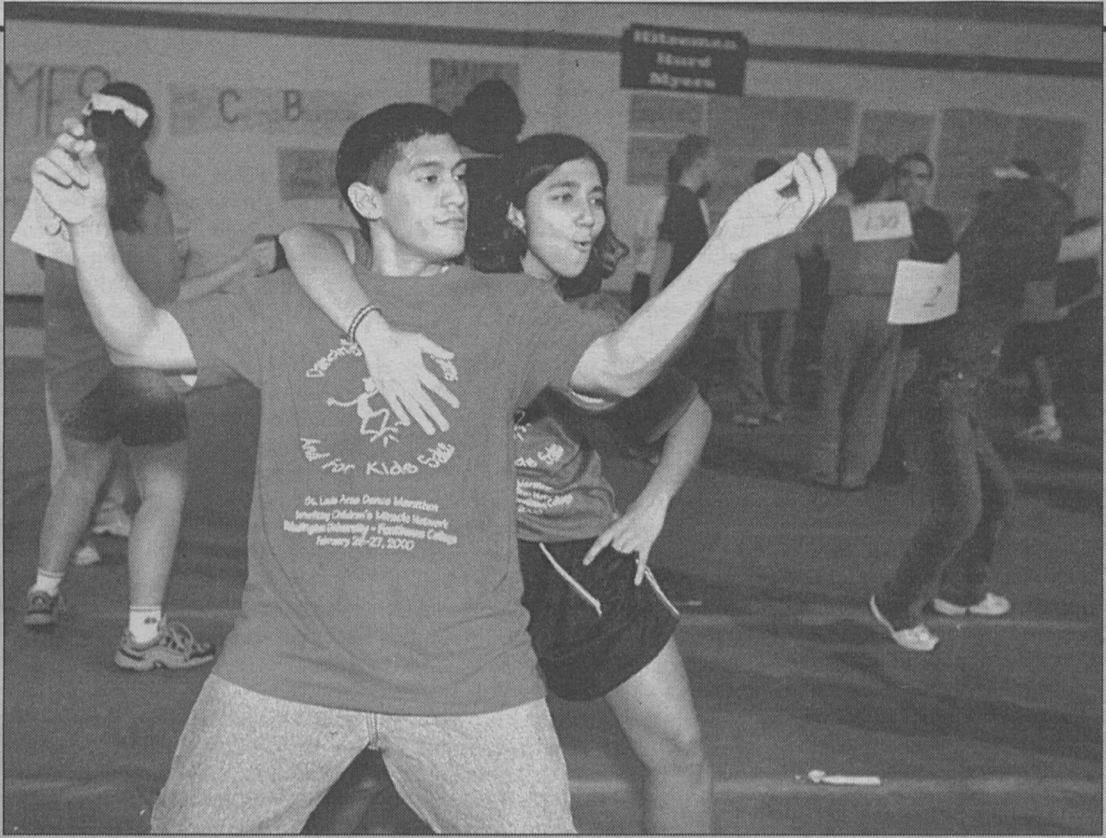
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Record

March 2, 2000

Volume 24 No. 22

Washington University in St. Louis



Only one rule: No sitting! Sophomores Rehan Hasan and Alvina Kittur "cut a rug" Saturday, Feb. 26, at the first annual Dance Marathon, held in the Athletic Complex Rec Gym. The 12-hour marathon, sponsored by the junior honorary Chimes, raised more than \$25,000 for the Children's Miracle Network of Greater St. Louis. Helping to eclipse the goal by more than \$10,000 were 113 dancers who registered for the entire marathon and another 200 who came in and paid hourly to dance. Students from Fontbonne College also joined in the cooperative effort.

'Textbook case'

Faculty and University score technology transfer triumph

By TONY FITZPATRICK

Cisco Systems Inc. has announced a definitive agreement to acquire a company formed two years ago by three Washington University computer scientists for Cisco common stock worth \$355 million.

Cisco announced its acquisition of Growth Networks Inc. Feb. 16. With an office in suburban Brentwood, Mo., and headquarters in Mountain View, Calif., Growth Networks is recognized as having the patented technology and capable design team to become a market leader in components for Internet routers and multiservice switching systems, enabling faster and more efficient data communication.

The company is the brainchild of Jonathan S. Turner, Ph.D., the Henry Edwin Sever Professor of Engineering; Jerome R. Cox, Sc.D., the Harold B. and Adelaide G. Welge Professor of Computer Science; and Guru M. Parulkar, Ph.D., professor of computer science.

Work that the three faculty

members performed at the School of Engineering and Applied Sciences Applied Research Laboratory (ARL) in Bryan Hall over the past decade served as the foundation and springboard for the company.

All three have directed the ARL at various times since its establishment in 1988. Turner currently directs ARL and is chief scientist for Growth Networks; Parulkar, chief technical officer and member of the Growth Networks board of directors, is on leave of absence from the University; and Cox, now a senior professor, continues to direct two networking grants here while devoting most of his time since his retirement from the regular faculty to Growth Networks as vice president of strategic planning and board member.

The company focuses on designing, developing and marketing a new class of network communication products for the wide area networking market. Because the Internet and corporate networks are experiencing exponential growth, there are many challenges facing service

See **Triumph**, Page 6

Exploring new links

Mellon grant will foster interdisciplinary work

By LIAM OTTEN

Washington University has received an \$810,000 grant from The Andrew W. Mellon Foundation — the largest in the University's history for combined studies in the humanities and social sciences in Arts & Sciences. The grant will establish a postdoctoral fellowship program, support a series of seminars and lectures and foster undergraduate education.

The new program, Modeling Interdisciplinary Inquiry, will be launched in fall 2001. During the five subsequent years, it will support a total of 14 two-year postgraduate fellowships for young scholars from universities in this country and abroad.

The program was conceived by Steven Zwicker, Ph.D., the Stanley Elkin Professor in the Humanities and professor of English in Arts &

Sciences. Zwicker previously directed a series of Mellon Dissertation Seminars that served as a model for the new program.

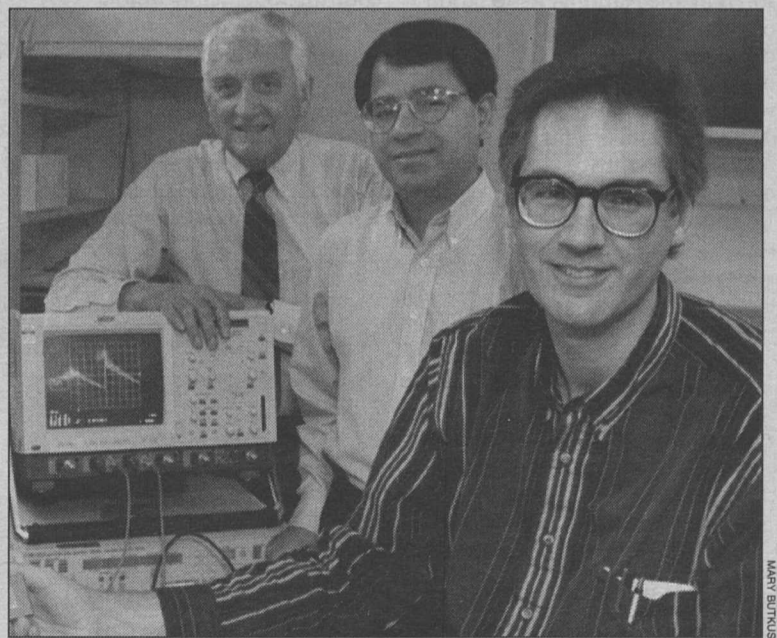
"This new postdoctoral program is organized around the principle of interdisciplinary scholarship and teaching," Zwicker explained. "It will offer training to scholars in the first stages of their teaching and research careers and will help them move beyond the questions and methods they were able to raise and deploy in their dissertations. This program also will offer an opportunity for our own faculty and graduate students to engage in a sustained critique of the variety of interdisciplinary models now used in the humanities and social sciences."

The fellowship program will consist of three initiatives: academic and intellectual mentoring, a seminar in theory

and methods, and undergraduate teaching. The mentoring program will place postdoctoral scholars in formal relationships with senior faculty working in fields related to — but distinct from — their own dissertation fields. The seminar, to be run by postdoctoral fellows and open to graduate students and faculty, will address issues related to interdisciplinary research and teaching. The undergraduate teaching program will give postdoctoral fellows the opportunity to develop new courses based on their own research and scholarship.

"The Mellon Program will offer the next generation of teachers and scholars an unusual opportunity to test their ideas about interdisciplinary education within a highly supportive environment," noted Edward S. Macias, Ph.D., executive vice

See **Links**, Page 2



Jerome R. Cox, Sc.D. (left), Guru M. Parulkar, Ph.D. (center) and Jonathan S. Turner, Ph.D., shown here in a Bryan Hall lab, have just scored a technology transfer coup in the sale of their computer switching and routing firm to Cisco Systems Inc.

Smile! Study reveals milestone in development of gender roles

By GERRY EVERDING

From kindergarten to college, from generation to generation, the annual yearbook photo session has become an icon of the American school experience, an awkward, stomach-churning rite of passage captured in a flash and preserved for the ages in wallet size.

Now, a researcher at Washington University has used thousands of yearbook photos to pinpoint a milestone in adolescent development — the age when girls begin smiling more often than boys.

"The greater tendency for girls and women to smile more than boys and men, at least in school yearbooks, begins between the ages of 9 and 12, is firmly rooted by age 14 and persists into adulthood," said David K. Dodd, Ph.D., the study's lead author and a senior lecturer in psychology in Arts & Sciences.

Most of us might prefer that our yearbook photos remain hidden away in some dusty archives. But from Dodd's perspective, the nation's easily accessible trove of vintage yearbooks represents a unique

and valuable data set.

For his study of adolescent smiling behaviors, which appears in the current quarterly issue of *The Psychological Record*, Dodd and colleagues examined 15,414 student photos in the yearbooks of nine elementary schools, three high schools and two colleges spanning the period 1968 to 1997. They benchmarked adult smiling habits by analyzing yearbook photos of nearly 1,000 school faculty and staff. In addition, the study checked for historical shifts in smiling habits by comparing a sampling of yearbook photos from one high

school over a 25-year period.

Although no one knows exactly why women smile more than men, their tendency to do so has been well documented in a flurry of research conducted over the last two decades. No matter the social setting, adult women have been shown to smile more often and more enthusiastically than male counterparts — a gender difference apparently nonexistent among newborns, toddlers and preschoolers.

Dodd's study is the first to pinpoint the transition period, the point in adolescent development

when young girls begin to diverge sharply from boys in their propensity to smile. "Our research suggests that girls begin smiling significantly more than boys as early as the fourth grade and that this gender difference widens considerably by the time students reach high school," Dodd said.

In kindergarten, when gender roles are still emerging, smiling for the yearbook appears to be a roughly 50-50 decision, although smiling girls (59 percent) slightly outnumber smiling boys (54 percent).

See **Smile!**, Page 6



Police on the move DMS movers help relocate the University Police from their old home on Millbrook Boulevard to an interim office on the South 40, at the west end of the former Apartment Referral Service office building. The Transportation Department also relocated to the east end of the same building. The vacant building at 6930 Millbrook Blvd. will be demolished this month to make way for a small group housing complex, set for completion in fall 2001.

Celebration School marks Social Work Month

The George Warren Brown School of Social Work, which celebrates its 75th anniversary this year, plans to promote the social work profession on campus this month with banners and information about its graduate program at a Mallinckrodt Student Center booth.

"Our master's program has been attracting more and more great students from the University's undergraduate programs, and that's a trend we'd like to encourage," said Brian Legate, director of social work admissions. "We thought getting the word out about social work careers would be a great way for the school to observe National Social Work Month" — an annual March event.

Ranked No. 1 in the nation in the most recent survey of social work graduate programs by U.S. News and World Report magazine, the school has been on a roll. It recently moved into its new \$13 million Alvin Goldfarb Hall and completed a major renovation of the historic Brown Hall, the nation's first building constructed specifically as a school of social work.

Social Work Month is sponsored by the National Association of Social Workers (NASW), the discipline's largest professional organization. The profession, which dates to the days of Chicago settlement house pioneer Jane Addams, recently celebrated its own 100th anniversary.

Today social workers are

employed in a wide variety of settings from mental health centers and hospitals to corporate employee services and as policy analysts.

As a leader in social work research, the George Warren Brown School of Social Work is at the forefront of efforts to introduce sophisticated science-based tools and techniques to social work education and practice. While the profession is still intimately concerned with the problems and dreams of individual persons and communities, it is increasingly using complex research methods to address social ills at the policy and planning levels.

The school will highlight its research efforts by hosting three major national social work conferences during its year-long anniversary celebration:

- May 3-5: "**Applying Research to Social Work Practice**" is a conference expected to attract some of nation's leading social work scholars to scrutinize ways to base social work practice on solid empirical evidence regarding effective treatments. Conference coordinators include Enola Proctor, Ph.D. the Frank J. Bruno Professor of Social Work Research, and Aaron Rosen, Ph.D., the Barbara A. Bailey Professor of Social Work.

- May 5-6: "**Empowering American Indian Families: New Perspective on Welfare Re-**

form" is the topic of a national symposium to be hosted by the Kathryn M. Buder Center for American Indian Studies. The gathering, which is expected to draw representatives from dozens of American Indian tribes, will explore the impact of welfare reform on tribal governments, local institutions and low-income residents of reservations. Co-sponsored by the U.S. Department of Health and Human Services' Administration for Children and Families and the Bureau of Indian Affairs, the conference is being coordinated by Eddie Frank Brown, DSW, associate dean for community affairs and director of the Buder Center; and Shanta Pandey, Ph.D., associate professor of social work.

- Sept. 21-22: "**Asset-based Strategies for Low-income Individuals and Families**" will examine the possibility of expanding asset-based and poverty strategies, including policies that encourage the accumulation of financial assets for investment in higher education, home ownership, small business development and retirement security. The conference is supported by a generous grant from the Ford Foundation and sponsored by the school's Center for Social Development. Coordinators are Michael W. Sherraden, Ph.D., center director and the Benjamin Youngdahl Professor of Social Development; and Lisa A. Morris, Ph.D., assistant professor of social work.

From history to number theory, Summer School offers variety

Choices are vast for faculty and staff who want to enroll in Summer School, with more than 200 courses available ranging from American politics to yoga.

Three of the creative additions to the summer session curriculum are the result of teaching grants from the Summer School, awarded to University faculty for the development of new classes.

"We think it is very important to encourage regular faculty members to teach our courses," said Mark Rollins, director of the Summer School.

The faculty and their new courses are:

- Derek M. Hirst, Ph.D., the William Eliot Smith Professor and chair of the Department of History in Arts & Sciences, teaching "Sex, Violence and Family Values in the Age of Shakespeare." This new course will examine social, gender and sexual attitudes in early modern England as represented in trial records, treatises, plays and literary texts and in relation to important historical events.

- Elzbieta Sklodowska, Ph.D., professor of Spanish in Arts & Sciences, has developed a course titled "The Many Faces of Latin America: The Crossroads of Film and Literature." The course, taught in English, will draw on film and literature to address selected themes — remembering and forgetting, the untold stories of women, dilemmas of revolution and the impact of U.S. policies.

- Vladimir Masek, Ph.D., assistant professor of mathematics in Arts & Sciences, has designed a course titled "Finite Mathematics: Number Theory, Combinatorics and Graphs." The five-week course requires knowledge of arithmetic and algebra and will consider methods of proof and practical applications of number theory, combinatorics and graph theory to probabilities, calendars, scheduling, communication and cryptography.

- A fourth course made possible by the grants will be taught in

summer 2001. Itai Sened, Ph.D., associate professor of political science in Arts & Sciences, will teach a course covering the basic concept of game theory as well as some of its more sophisticated tools, applied to topics such as collective choice and action.

"We are delighted to be able to offer these classes, all of which combine solid academic content with interesting approaches to their subjects," Rollins said.

Summer School courses are offered during three-, five- and eight week sessions with both day and evening hours. Registration begins April 1. The sessions are:

- Session 1 — May 22-June 9;
- Session 2 — June 12-July 14;
- Session 3 — June 12-Aug. 4;
- Session 4 — July 17-Aug. 18.

Full-time staff and their spouses or domestic partners receive 50 percent tuition remission for undergraduate evening courses offered at the University.

About 2,000 people enrolled in summer school last year for more than 8,000 credit hours. Of those students, 115 were members of the University's High School Summer Scholars Program. During two five-week sessions, high-school seniors take courses for credit and live in campus residence halls.

"We had more summer scholars in 1999 than ever before, and we expect even more this year," Rollins said.

In addition to offering a wide range of courses, the Summer School and the College of Arts & Sciences are continuing to find new ways to enrich summer social and cultural life on campus. A new variety series will feature comics, folk music and dance. The popular Holmes Jazz Series also will continue. A calendar of events is being published in May listing these and other events.

For more information about Summer School call 935-6720 or visit the Summer School Web site (<http://www.artsci.wustl.edu/~college/Programs/summer.html>).

Links

Mellon grant supports interdisciplinary work
— from page 1

chancellor and dean of Arts & Sciences. "The experience we've had with interdisciplinary training at the graduate level should provide a particularly fruitful context for this initiative."

The program will be directed by Zwicker and governed by a steering committee composed of 16 senior faculty who have demonstrated in their own work a commitment to interdisciplinary teaching and research. The committee will select fellows, discuss proposals for classes and

serve as a bridge linking academic departments.

"We anticipate that our steering committee will become a powerful institutional voice for interdisciplinary and transdisciplinary teaching and scholarship," Zwicker said. "We hope that this program proves instrumental to the continued reshaping of academic culture by fostering new ways of thinking about the relations among the various humanities disciplines as well as between the humanities and social sciences."



Zwicker: Conceived fellowship program

News Briefs

Seeking nominees

Faculty are encouraged to make nominations for a pair of awards recognizing outstanding seniors for exceptional achievement.

The Ethan A. H. Shepley Award is presented at the Eliot Honors ceremony to seniors who have excelled in the areas of leadership, scholarship and service to the campus community. The W. Alfred Hayes Award is presented at Eliot Honors to senior student-athletes who, by personal example, have provided constructive University leadership.

Shepley and Hayes Award nominations should be submitted to Justin X. Carroll, assistant vice chancellor for students and dean of students, Campus Box 1250, or by fax at 935-4001. Nominations are due by Friday, March 17.

Un-wired (briefly)

Electricity to part or all of 37 Hilltop Campus buildings will be cut off between 10 p.m. Sunday, March 5, and



Campus quiz: This figure is appropriate to St. Louis, home of the largest brewery in the world. Where on the Hilltop Campus is he? Answer below.

6 a.m. Monday, March 6, while crews install switch gear and reroute feeders for the construction of the new Arts & Sciences Laboratory Science Building, between the Ann W. Olin Women's Building and McMillan Hall.

Affected buildings are Bixby, Blewett, Brookings, Brown, Bryan, Busch, Duncker, Eads, Givens, Goldfarb, January, Lopata, Louderman, McDonnell, McMillan, Rebstock, Ridgley, Simon, Tietjens, Urbauer and Wilson halls; Alumni House; the Athletic Complex and Francis Field; Graham Chapel; Fraternity

Houses 1-5, 9 and 10; Gaylord Music Library and the Music Classrooms Building; the Life Sciences Building and the Jeanette Goldfarb Plant Growth Facility; Mallinckrodt Center; Busch and McMillan laboratories; the Millbrook Apartments; the Ann W. Olin Women's Building; and the Psychology Building.

A similar outage between 10 p.m. March 10 and 6 a.m. March 11 will affect Anheuser-Busch, Bryan, Compton, Crow, Cupples I and II, Eliot, Jolley, McDonnell, McMillan, Prince, Rebstock, Sever, Simon and Umrath halls; the Life Sciences, Psychology and Radiochemistry buildings; the Cyclotron; the Jeanette Goldfarb Plant Growth Facility; Mallinckrodt Center; McMillan Laboratory; Millbrook Garage; Olin Library; the Power Plant; and the Charles F. Knight Executive Education Center construction site.

For more information, call 935-5954 or 935-4351.

Answer: Our friend raises his mug in the archway between North Brookings and Cupples I halls.

Record

Washington University community news

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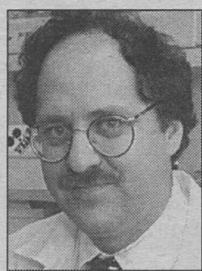
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Medical School Update

Serious complications of liver disease might be prevented

By DIANE DUKE WILLIAMS

Children with the most common genetic cause of liver disease are at increased risk of developing life-threatening liver disease and emphysema. Using mice, School of Medicine researchers now have identified a new treatment approach that could prevent the serious



Perlmutter: Studies genetic liver disease

complications of the disease, called alpha-1-antitrypsin deficiency.

"This approach eventually could prevent these patients from needing liver or lung transplants," said senior author David H. Perlmutter, M.D., the

Donald Strominger Professor of Pediatrics and professor of cell biology and physiology.

Perlmutter and colleagues reported their findings in the Feb. 15 issue of Proceedings of the National Academy of Sciences. The first author of the study is Jon A. J. Burrows, a postdoctoral fellow.

Alpha-1-antitrypsin ordinarily inhibits enzymes that can degrade connective tissue. People with alpha-1-antitrypsin deficiency make an abnormally folded version that gets retained inside liver cells instead of being secreted into body fluids. Emphysema is believed to result when the protein's absence from lung fluid allows degradative enzymes to wreak havoc. Liver injury is thought to be caused by the toxicity of the retained mutant protein.

In this study, Perlmutter and

colleagues demonstrated that a drug called 4-phenylbutyric acid (PBA) improved secretion of mutant alpha-1-antitrypsin in a model cell culture system. The drug also increased levels of alpha-1-antitrypsin 20 percent to 50 percent in a transgenic mouse model. PBA belongs to a class of compounds called chemical chaperones, which get into cells and reverse protein misfolding. It already is approved by the FDA for other therapeutic purposes.

"This drug helps the mutant protein get out of the liver and into the blood and body fluids," Perlmutter said. "The mutant then can partially perform the job of the normal protein."

In one set of experiments, the researchers studied mice with two copies of the mutant human alpha-1-antitrypsin

gene. When the animals were 6 to 7 weeks of age, one group was fed 14 milligrams of PBA daily for five days and the other was fed plain water. The treatments then were stopped for two days before the groups were switched for another seven-day period. The researchers drew blood from the mice on the day before the trial began and on days three, five, eight and 12.

During treatment with PBA, human alpha-1-antitrypsin levels increased by one-third to one-half by day 3 and remained elevated for the entire five days of the PBA treatment period. The levels were down to pre-treatment levels seven days after the PBA treatment was discontinued.

Using genetically modified cells in culture, the researchers also showed that glycerol can increase the secretion of mutant

alpha-1-antitrypsin.

Perlmutter said the results demonstrate that the effects of chemical chaperones, particularly PBA, satisfy many of the criteria required for prevention of liver and lung injury in alpha-1-antitrypsin deficiency. One trial in humans with alpha-1-antitrypsin deficiency has begun, and Perlmutter believes these studies will lead to several more.

Scientists also have identified many more human diseases in which chemical chaperones might be useful for treatment. He said a similar approach might help patients with diseases such as Alzheimer's, Parkinson's and Huntington's.

"I think this approach could ultimately have a major impact on a number of disorders," Perlmutter said.

Protein-processing program plays a role in cell signaling

By BARBRA RODRIGUEZ

Scientists have discovered a new way in which cells can relay messages to affect gene activity: They have evidence that cell membranes serve as "chop shops" for dismantling proteins into fragments that can act as messengers to change cell behavior.

"There might be a whole array of events occurring at the cell surface or at internal membranes that are regulated in this way," said Raphael Kopan, Ph.D., associate professor of medicine and of molecular biology and pharmacology. Kopan led a study, published in the Feb. 25 issue of *Molecular Cell*, on the processing of the developmental protein Notch. His findings corroborate those of scientists who have studied proteins that regulate lipid metabolism, the folding of new proteins and other processes.

In a May 1998 article in *Nature*, Kopan and his colleagues revealed that a fragment of Notch serves as a messenger that determines a cell's fate. Notch, a protein found inserted in the outer membrane of cells, has a part that juts out into the cell's surroundings and another that juts into the interior of the cell. The part that sticks out serves as a receptor and attaches to a protein ligand presented by nearby cells.

The researchers determined that this interaction permits the release of the internal portion of Notch, which travels to the nucleus to influence gene activity and determine the cell's type.

Notch's tail fragment is thought to be released from the cell surface in a process involving a protein that also helps cleave the

tail of an Alzheimer's disease-related protein. This protein, amyloid precursor protein (APP), gives rise to a smaller fragment that forms plaques in the brains of patients with the disease.

The study in *Molecular Cell* reveals that Notch sheds its outer portion when it attaches to other cells. Kopan and his colleagues have given the name NEXT (Notch extracellular truncation) to the remainder.

They postulated that Notch unfolds itself when it binds to ligand, making the outer portion susceptible to cleavage. This cleavage creates NEXT, which Kopan's study shows is the version of Notch from which the inner tail is released.

Kopan compares unbound Notch to a mousetrap that is ready to spring into action once a mouse steps on the bait. "Notch at the surface is cocked and ready to go," he said. "If a ligand binds to it, a series of proteolytic cleavages releases Notch's business end — the intracellular fragment that goes to the nucleus to create a change (in cell behavior)."

Other investigators in the same issue of *Molecular Cell* identified the enzyme that cleaves the outer portion of Notch and APP. In combination, the papers' results suggest that Alzheimer researchers should evaluate APP more closely to determine whether it receives signals from nearby cells, Kopan said. In the past two years, scientists have identified five proteins in addition to Notch and APP that undergo cleavage at membranes.

Medical School faculty receive grants totaling \$5.1 million

Numerous School of Medicine faculty recently have received grants of \$1 million or more to fund research on topics ranging from advanced breast cancer to blood vessel formation to sudden heart failure.

David R. Piwnica-Worms, M.D., Ph.D., has received a four-year \$1.5 million grant from the National Cancer Institute. Piwnica-Worms, professor of radiology and of molecular biology and pharmacology, will determine whether a substance used for imaging helps predict which women with advanced breast cancer will benefit from chemo-

therapy.

David C. Van Essen, Ph.D., the Edison Professor of Neurobiology and head of the Department of Anatomy and Neurobiology, has received a five-year \$1.4 million grant from the National Institute of Mental Health. The grant will enable Van Essen and colleagues to develop computerized maps of the brain.

Jeffrey E. Saffitz, M.D., Ph.D., has received a four-year \$1.1 million grant from the National Heart, Lung, and Blood Institute. Saffitz, the Paul and Ellen Lacy Professor of Pathology and a professor of

medicine, will study the role of sites on the surface of heart muscle cells in producing sudden heart failure.

Nader Sheibani, Ph.D., research assistant professor of biochemistry and molecular biophysics, has received a five-year \$1.1 million grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases to study the regulation of blood vessel formation. Uncontrolled growth of capillaries, the tiny vessels that deliver blood to tissues, contributes to arthritis and diabetic eye disease and to tumor growth and metastasis.



Helping hand Medical students belonging to the group Commotion volunteer Friday, Feb. 25, at Someone Cares Mission, which distributes food to food pantries and soup kitchens within 250 miles of St. Louis. They are (from the left) second-year students Kristin Hall, Dawn Wetzel and Paul Robben and first-year student Vanessa Craig.

Researchers studying inhalers for insulin treatment

School of Medicine researchers are studying an investigational treatment for diabetes using insulin that is inhaled rather than injected. The researchers are testing this therapy in two types of patients. One study is recruiting patients with Type II, or adult-onset, diabetes who take insulin injections to control their blood glucose. A second study is for patients with Type II diabetes

who are not yet taking insulin or any drugs to control their glucose levels.

Participants will be selected randomly to remain on standard diabetes therapy or to switch to the investigational inhaled insulin. The study lasts six months. At the conclusion of that time period, patients on standard therapy will have the option to switch to inhaled insulin.

"The investigational insulin is in the form of a powder," said Janet B. McGill, M.D., associate professor of medicine and a principal investigator in the studies. "Patients use a device that allows them to inhale the powder into their lungs, and the insulin then will pass from the lungs into the bloodstream."

Tiny air sacs line the lungs, and past research has shown that insulin can cross the fine membrane that separates those air sacs from blood vessels. McGill believes if reliable, consistent doses of insulin can

"Patients use a device that allows them to inhale the powder into their lungs, and the insulin then will pass from the lungs into the bloodstream."

JANET B. MCGILL

move from the lungs into the bloodstream, inhaling insulin may be an improvement over insulin injections. Currently, insulin cannot be given in pill form because it cannot pass through the gut.

"Even if inhaled insulin works, this therapy will not replace all insulin injections," McGill said. "While it will allow patients to inhale this short-acting insulin before meals, they still will require an injection of a longer-acting insulin at bedtime."

Pregnant women, smokers and patients who have been taking other investigational drugs or using insulin pumps are not eligible for the study. For more information, or to schedule a screening appointment, call Volunteer for Health at 362-1000.

University Events

Humor and horror Lisa Kron takes wild '2.5 Minute Ride' at Edison March 18

Monologist Lisa Kron will bring "2.5 Minute Ride," her latest tour de force, to Edison Theatre at 8 p.m. March 18 for its St. Louis premiere in a special one-night-only performance. The show is at once a sly romp through the Kron family album and a bittersweet ode to the performer's father, a "75-year-old blind, diabetic Holocaust survivor."

In virtuoso fashion, "2.5 Minute Ride" careens from one oddball — but true — story to the next, beginning with a bizarre family pilgrimage to the Cedar Point Amusement Park in Sandusky, Ohio, where Kron's father offers himself up to existential pushes, pulls, gravity and terrifying descents of the roller coaster. The park, however, proves a breeze compared with Kron's efforts to understand her father's past — efforts that lead the two of them, accompanied by Kron's lover, on a melancholy trip to the Auschwitz concentration camp, where her grandparents were killed.

Yet along the way, the irrepressible Kron offers brightly sardonic descriptions of everything from the current state of

"2.5 Minute Ride"

Who Lisa Kron
Where Edison Theatre
When 8 p.m. March 18
Tickets \$25

Polish cuisine to the absurd spectacle of her brother's marriage to his Internet bride. The show proves, with disarming simplicity, just how easily humor and horror can coexist in the same moment.

Kron is renowned for her comic pieces on such themes as the trials of high school reunions and other contemporary ills. Raised in Lansing, Mich., she began her solo career in 1984 at the WOW Café Theatre Collective in New York's East Village. Her earlier solo piece, "101 Humiliating Stories," was nominated for a 1994-95 Drama Desk Award. Her numerous awards include a 1994 New York Foundation for the Arts Fellowship, a 1997 CalArts/Alpert Award in theater and, most recently, an L.A. Dramalogue Award for "2.5 Minute Ride."

In addition to her solo work, Kron is a founding member of the

Obie- and Bessie-Award-winning company The Five Lesbian Brothers. The brothers recently completed a book of lesbian humor for Simon & Schuster and an original script for the Joseph Papp Public Theatre in New York City. Their two earlier plays, "The Secretaries" and "Brides of the Moon," were produced by the New York Theatre Workshop in 1994 and 1997, respectively.

Kron has performed at some of the country's most prestigious venues, including Lincoln Center's Serious Fun! Festival, Josie's Cabaret in San Francisco, Highways in Los Angeles, the Yale Repertory Theater, the American Repertory Theater in Boston and the Barbican Centre in London. She currently lives in New York City.

Tickets are \$25 and are available at the Edison Theatre Box Office, 935-6543, or through MetroTix, 534-1111. Call for discounts. For more information, call 935-6543.

The performance is sponsored by Edison Theatre's OVATIONS! Series with support from the Missouri Arts Council, a state agency, and the Regional Arts Commission, St. Louis.



Monologist Lisa Kron's "2.5 Minute Ride" careens from one oddball — but true — story to the next.

Alzheimer's Disease • Venus • Turtles • Retirement • Markov Model

"University Events" lists a portion of the activities taking place at Washington University March 2-18. For a full listing of medical rounds and conferences, see the School of Medicine's Web site at medschool.wustl.edu/events/. For an expanded Hilltop Campus calendar, go to www.wustl.edu/thisweek/thisweek.html.

Exhibitions

"School of Architecture's Steedman Competition." Designs linking the Gateway Arch grounds with downtown St. Louis. Through March 18. Forum for Contemporary Art, 3540 Washington Ave., St. Louis. 535-4660.

"Beginnings: The Taste of the Founders." Through March 19. Gallery of Art. 935-4523.

"Bound(aries): Perspectives on Bookbinding." Through March 27. Fifth floor Olin Library. 935-5495.

"Island Press: Innovation at Washington University." Through March 19. Gallery of Art. 935-4523.

"Zen Paintings and Japanese Art." Through March 19. Gallery of Art. 935-4523.

Film

Wednesday, March 15

6 p.m. **Chinese Film Series.** "The Blue Kite." Sponsored by Asian and Near Eastern Languages and Literatures. Room 219 Ridgley Hall. 935-5156.

Thursday, March 16

7 p.m. **Filmboard Free Feature.** "Thelma and Louise." Room 100 Brown Hall. 935-5983.

Friday, March 17

7 and 9:30 p.m. **Filmboard Feature Series.** "Muppets From Space." (Also March 18, same times, and March 19, 7 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. **Filmboard Midnight Series.** "Thelma and Louise." (Also March 18, same time, and March 19, 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Lectures

Thursday, March 2

Noon-1 p.m. **Genetics lecture.** "Progress Toward Identification of Novel Genetic Risk Factors for Late Onset Alzheimer's

Disease." Alison M. Goate, prof. of genetics and of psychiatry. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

4 p.m. **Anthropology Colloquium Series.** "The Social Ecology of Strong Medicine: Responding to the Problem of Antibiotic Resistance." Kitty Corbett, assoc. prof. of anthropology, U. of Colo., Denver. Room 203 Eads Hall. 935-5252.

4 p.m. **Biology Faculty Search Candidate Seminar Series.** "Evolutionary Changes in Metazoan Axial Patterning: Implications of Data From Hydra Vulgaris." Diane Bridge, Developmental Biology Center, U. of Calif., Irvine. Room 322 Rebstock Hall. 935-6860.

4 p.m. **Cardiovascular research seminar.** "C to U Editing of RNA: New Substrates, New Targets." Nicholas O. Davidson, prof. of medicine and of molecular biology and pharmacology, dir., gastroenterology div. Room 801 Clinical Sciences Research Bldg. 362-8901.

4 p.m. **Chemistry seminar.** "Synthesis and Properties of Molecular Photonic Devices." Jonathan S. Lindsey, prof. of chemistry, N.C. State U. Room 311 McMillen Lab (coffee 3:40 p.m.). 935-6530.

4 p.m. **Earth and planetary sciences colloquium.** "Regional and Global Stratigraphy and the Geological History of Venus." Alexander T. Basilevsky, dir., Laboratory for Comparative Planetology, Vernadsky Inst. of Geochemistry and Analytical Chemistry, Russia. Room 361 McDonnell Hall. 935-5610.

4:15 p.m. **Philosophy and Philosophy-Neuroscience-Psychology Colloquium Series.** "Subjectivity and Mental Representation." Pete Mandik, graduate student, philosophy dept. Room 216 Psychology Bldg. 935-6670.

5 p.m. **Vision Science Seminar Series.** "A Non-visual Ocular Phototransduction Pathway: Cryptochromes and Immune Privilege." Russell N. Van Gelder, asst. prof., ophthalmology and visual sciences dept. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

Friday, March 3

8 a.m. **Hematology-Oncology Grand Rounds.** "CML and STI 571: Validating the Promise of Molecularly Targeted Therapy." Brian J. Druker, Oregon Health Sciences U., Portland. Room 8841 Clinical Sciences Research Bldg. 362-8801.

Noon. **Cell biology and physiology seminar.** "Phosphoinositide Kinase Signaling Essential for Protein Sorting in the Secretory Pathway." Scott D. Emr, cell and molecular medicine div., Howard Hughes Medical Inst., U. of Calif., San Diego School of Medicine. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. **Central Institute for the Deaf research seminar.** "Mechanisms for Transcellular Calcium Movements in Hair

Cells: Lessons Learned From Studies of Hair-cell Calcium Channels and Plasma Membrane Calcium ATPases." Ebenezer Yamoah, asst. prof. of neurobiology, U. of Cincinnati. Room 310 CID School Bldg., 818 S. Euclid Ave. 977-0271.

Noon. **Space physics brown bag lunch lecture.** "Stranger in a Strange Land: Martian Xenon Isotopy." Jamie Gilmour, U. of Manchester, England. Room 241 Compton Hall. 935-6257.

2 p.m. **Thesis defense.** "The Role of Viral Protein U (Vpu) in HIV-1 Particle Assembly." Aparna Deora, molecular genetics program. Room 1001 Clinical Sciences Research Bldg. 362-3365.

6 and 8:30 p.m. **Travel Lecture Series.** "New Zealand Outdoor Adventure." Grant Foster. Graham Chapel. 935-5212.

Monday, March 6

Noon. **Lung biology conference.** "Mechanisms of Ciliogenesis." Steven L. Brody, asst. prof. of medicine, pulmonary and critical care medicine div. Room 801 Clinical Sciences Research Bldg. 362-8983.

Noon-1 p.m. **Molecular biology and pharmacology seminar.** "Neurogenetics of Cortical Development." Pasko Rakic, prof. and chair of neurobiology, Yale U. School of Medicine. Room 3907 South Bldg. 362-2725.

Noon. **Neuroscience/Neurology joint seminar.** "Neurobiology of Huntington's Disease and Related Disorders." Chris Ross, Johns Hopkins U. Cori Aud., 4565 McKinley Ave. 362-7190.

4 p.m. **Biology Faculty Search Candidate Seminar Series.** "Building Genetic Architectures: Studying the Role of Developmental Processes for Morphological Evolution." Christian Klingenberg, U. Museum of Zoology, Cambridge, England. Room 322 Rebstock Hall. 935-6860.

4 p.m. **Immunology Research Seminar Series.** "Costimulation, the Third Dimension." Jonathan Green, asst. prof. of medicine and of pathology, Eric P. Newman Education Center. 362-2763.

Tuesday, March 7

Noon. **Molecular basis of cancer seminar.** "Molecular Diagnosis of Cancer." John F. DiPersio, prof. of medicine and assoc. prof. of pathology. Bone Marrow Transplant Conference Room, fifth floor, Steinberg Bldg., Barnes-Jewish Hospital North. 362-8836.

Noon. **Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Mosquito - Malaria Interactions: Molecular Immune Responses and Parasite Translocations." George Dimopoulos, European Molecular Biology Lab., Heidelberg, Germany. Cori Aud., 4565 McKinley Ave. 362-1514.

12:10 p.m. **Physical therapy research seminar.** "Neural Control of Scratching and Locomotion in the Turtle." Gammon Earhart, doctoral candidate, movement science program in

physical therapy. Classroom C, 4444 Forest Park Blvd. 286-1400.

4 p.m. **Biology Faculty Search Candidate Seminar Series.** "Homeostatic Plasticity of Neocortical Neurons." Niraj Desai, biology dept., Brandeis U., Mass. Room 322 Rebstock Hall. 935-6860.

4 p.m. **Tumor Genetics Seminar Series.** "Comprehensive Gene Expression Analysis of Brain Tumors for the Cancer Genome Anatomy Project." Gregory J. Riggins, asst. prof. of pathology, Duke U. Medical Center, Durham, N.C. Sponsored by the Alvin J. Siteman Cancer Center. Third floor aud., St. Louis Children's Hospital. 747-7222.

Wednesday, March 8

8:30 a.m. **Human Resources retirement planning seminar.** Representatives from TIAA-CREF, Vanguard, Social Security and WU will speak about investment strategies, annuity options, Social Security and University benefits. West Campus Conference Center, 7425 Forsyth Blvd. To register, call 800-842-2005.

4 p.m. **Biochemistry and molecular biophysics seminar.** "Protein Fold Recognition From Genomic Sequences: Optimizing the Drug Discovery Process." Rajeev Aurora, leader, Pharma Computational Biology Group, Searle, Monsanto Co. Cori Aud., 4565 McKinley Ave. 362-0261.

5:15 p.m. **Mothers and Babies Research Center conference.** "Hypoxia Induces Apoptosis in Third Trimester Human Trophoblasts." Roni Levy, instr., obstetrics and gynecology. Room 36, third floor south, St. Louis Children's Hospital. 747-0739.

Thursday, March 9

Noon-1 p.m. **Genetics lecture.** "Large-scale Analysis of the Yeast Genome." Michael Snyder, Yale U. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

Noon. **Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Proteolytic Processing, Intracellular Transport and Degradation of Influenza C Virus Proteins." Andrew Pekosz, Northwestern U. Cori Aud., 4565 McKinley Ave. 362-9223.

4 p.m. **Biology Faculty Search Candidate Seminar Series.** "Optical Studies of the Neuronal Basis of Behavior in Zebrafish." Katherine Liu, State U. of N.Y., Stony Brook. Room 215 Rebstock Hall. 935-6860.

4 p.m. **Cardiovascular research seminar.** "Identification of a Hyaluronan-dependent Ras-mediated Signaling Pathway Essential in Cardiac Morphogenesis." John A. McDonald, dir. for research and prof. of medicine, biochemistry and molecular biology, Mayo Clinic, Scottsdale, Ariz. Room 801 Clinical Sciences Research Bldg. 362-8901.

4 p.m. **Pathology's Paul E. Lacy Lecture.** "Deconstructing and Reconstituting the Eukaryotic Machinery That Turns Genes On and Off." Robert Tjian, investigator, Howard Hughes Medical Inst. and prof. of

molecular and cell biology, U. of Calif., Berkeley. Eric P. Newman Education Center. 747-4237.

5 p.m. **Vision Science Seminar Series.** "In Vivo and In Vitro Studies of Retinal Neurodegeneration, Growth Factor Function and Excitotoxicity." David Hicks, Laboratory of Cellular and Molecular Retinal Pathology, Université Louis Pasteur, Strasbourg, France. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

Friday, March 10

Noon. **Cell biology and physiology seminar.** "The Immunological Synapse: Cell Biology of a High Order Molecular Machine." Michael L. Dustin, assoc. prof. of pathology and asst. prof. of biomedical engineering. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

4 p.m. **Anatomy and neurobiology seminar.** "Functional Networks of the CNS Sympathetic System Identified by Trans-synaptic Viral Tracing." Arthur D. Loewy, prof. of anatomy and neurobiology. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

4 p.m. **Hematology seminar.** "Signaling Through Notch - A Proteolytic Cascade Regulating Cell Fate." Raphael Kopan, asst. prof. of medicine and of molecular biology and pharmacology. Room 8841 Clinical Sciences Research Bldg. 362-8801.

Monday, March 13

10 a.m. **Center for Mental Health Services Research Seminar Series.** "Power Computations for Advanced Statistics." Edward L. Spitznagel Jr., prof. of mathematics and biostatistics and of psychiatric epidemiology. Room 39 Goldfarb Hall. 935-5687.

Noon. **Biology lecture.** "T-pilus Mediated Horizontal Gene Transfer." Clarence I. Kado, Davis Crown Gall Group, U. of Calif., Davis. Room 322 Rebstock Hall. 935-6860.

Noon. **Lung biology conference.** "Metalloproteinases in Repair and Defense." William C. Parks, assoc. prof. of medicine, pediatrics and cell biology and physiology. Room 801 Clinical Sciences Research Bldg. 362-8983.

Noon-1 p.m. **Molecular biology and pharmacology seminar.** "Roles for Basement Membranes in Development and Disease." Jeffrey H. Miner, asst. prof. of cell biology and physiology and of medicine, renal div. Room 3907 South Bldg. 362-2725.

Noon-1 p.m. **Work, Families and Public Policy Seminar Series.** "The Dynamics of Entrepreneurship Among High-technology Workers." Barton Hamilton, asst. prof. of economics and management. Room 300 Eliot Hall. 935-4918.

4 p.m. **Biology Faculty Search Candidate Seminar Series.** "Circadian Period Determination in a Mammalian Circadian Pacemaker." Erik Herzog, U. of Va. Room 322 Rebstock Hall. 935-6860.

4 p.m. **Immunology Research Seminar Series.** "MEF2 Factors: Effectors of

Director and historian giving Assembly Series lectures March 15, 16

Guthrie's Dowling views Shakespeare in 21st century

Artistic Director Joe Dowling of Minnesota's Guthrie Theater will deliver a lecture titled "Shakespeare in the 21st Century" at 11 a.m. March 15, as part of the Assembly Series. The lecture, which is free and open to the public, will be held in Graham Chapel.

Since joining the Guthrie Theater in 1995, Dowling has directed several mainstage productions, including "The Cherry Orchard," "Philadelphia, Here I Come!," "A Midsummer Night's Dream," "Blithe Spirit," "The Playboy of the Western World," "Much Ado About Nothing" and "The Importance of Being Earnest." Recently he directed "Molly Sweeny" at the Guthrie Lab and "Julius Caesar" on the mainstage.

During the current season, he is directing "The School for Scandal," "The Plough and the Stars" and the tour of his signature production of "A Midsummer Night's Dream," marking the

Guthrie's return to touring after a decade.

Dowling is widely known for his association with the Abbey Theatre, Ireland's national theater. While still a student at University College in Dublin, he became a member of the Abbey's acting company, where he played many leading roles. In 1970 he founded The Young Abbey, Ireland's first theater-in-education group. In 1973 he became artistic director of the Peacock Theatre, the Abbey's second stage, where he began his directing career, and in 1976 he was appointed artistic director of the national touring Irish Theatre Company. In 1978, at the age of 29, he became the youngest-ever artistic director of the Abbey Theatre. His tenure is particularly remembered for the encouragement and development of new plays and young playwrights.

After leaving the Abbey in 1985, Dowling became managing and artistic director of Dublin's oldest commercial theater, The

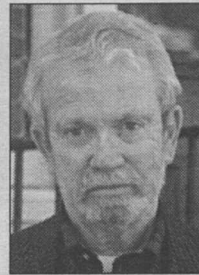


Assembly Series

Who Joe Dowling
Where Graham Chapel
When 11 a.m. March 15
Admission Free and open to the public

Gaiety. While there, he founded and directed The Gaiety School of Acting, now widely regarded as Ireland's premier drama school. Since 1990 he has directed extensively in North America at venues including the Arena Stage, The Shakespeare Theatre, the New York Shakespeare Festival, The Acting Company, American Repertory Theatre, the Roundabout Theatre on Broadway, the Stratford Festival in Ontario, The Banff Centre and Centaur Theatre in Montreal.

Dowling will direct "A Midsummer Night's Dream" May 5-7 at Edison Theatre. For more information about that production, call the Edison Theatre Box Office at 935-6543 or visit the web page (<http://www.artsci.wustl.edu/~edison>).



Assembly Series

Who John Murrin
Where Graham Chapel
When 4 p.m. March 16
Admission Free and open to the public

Historian to talk on popular culture and college sports

Author and historian John Murrin will deliver the Thomas D. Fulbright Lecture, titled "American Popular Culture, Elitism, and the Rise of Intercollegiate Athletics before the First World War," at 4 p.m. March 16 in Graham Chapel. The lecture, part of the Assembly Series, is free and open to the public.

Murrin is a professor of history at Princeton University, where he has taught since 1973. He is the co-editor of "Colonial America: Essays in Politics and Social Development," and the co-author of "Liberty, Equality, Power: A History of the Ameri-

can People." Murrin's articles have appeared in Perspectives on the American Past, The New American History and the Journal of American

History.

He chairs Columbia University's Seminar in Early American History and the executive council of the McNeil Center for Early American Studies. He has served as president of the Society for Historians of the Early American Republic (SHEAR) and on the editorial board of the Journal of American History.

Murrin earned a bachelor's degree from the College of St. Thomas, St. Paul, Minn., in 1957. He earned a master's degree in 1960 from the University of Notre Dame and a Ph.D. from Yale University in 1966.

For more information about either lecture, visit the Assembly Series web page (<http://wupa.wustl.edu/assembly>) or call 935-5285.

Calcium-dependent Gene Expression in T Lymphocytes." Talal Chatila, assoc. prof. of pediatrics and of pathology. Eric P. Newman Education Center. 362-2763.

5:30 p.m. Radiology's Annual Daniel R. Biello lecture. "Oncology Imaging: A New Era." R. Edward Coleman, prof. and vice chair of radiology and dir., nuclear medicine div., Duke U. School of Medicine. Scarpellino Aud., first floor, 510 S. Kingshighway Blvd. 362-2866.

Tuesday, March 14

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "A C. elegans-P. aeruginosa Pathogenesis Model for Genetic and Molecular Dissections of Host-pathogen Interactions." Man Wah Tan, molecular biology dept., Harvard Medical School. Cori Aud., 4565 McKinley Ave. 362-6772.

4 p.m. Anesthesiology research seminar. "Nociceptors, Glutamate and Nociceptive Signaling in the Spinal Cord Dorsal Horn." Amy MacDermott, assoc. prof. of physiology and cellular biophysics, The Center for Neurobiology and Behavior, Columbia U. Room 928 McDonnell Medical Sciences Bldg. 362-8560.

Wednesday, March 15

11 a.m. Assembly Series. "Shakespeare in the 21st Century." Joe Dowling, artistic dir., Guthrie Theater. Graham Chapel. 935-5285.



Noon-1 p.m. The Jonathan Adam Jonas Lyphona Lectureship and the Marilyn Fixman Clinical Cancer Conference. "NHL at the Millennium: Targets and Therapeutics." Sandra Horning, prof. of medicine, oncology and

bone marrow transplantation, Stanford U. School of Medicine. Co-sponsored by the Alvin J. Siteman Cancer Center and the Jonas Cancer Research Fund. Brown Room, Barnes-Jewish Hospital North. 747-7222.

4 p.m. Biochemistry and molecular biophysics seminar. "Chromosome Structure and Gene Regulation." Jonathan Widom, prof. and chair of biochemistry, molecular biology and cell biology and prof. of chemistry, Northwestern U. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. Biology Faculty Search Candidate Seminar Series. "Aminergic Modulation of a Small Neuronal Network: Cellular Mechanisms and Behavioral Consequences." Peter Kloppenburg, Cornell U. Room 322 Rebstock Hall. 935-6860.

7:30 p.m. Catholic Student Center lecture. "How Can the Church Be Part of Our Faith Journey?" The Rev. Gary Braun, dir., Catholic Student Center, and the Rev. Jeff Vomund, producer. Co-sponsored by the Student Union. Catholic Student Center. 935-9191.

Thursday, March 16

4 p.m. Assembly Series. "American Popular Culture, Elitism and the Rise of Intercollegiate Athletics Before the First World War." John Murrin, prof. of history, Princeton U., and pres., Society of Historians of the Early American Republic. Graham Chapel. 935-5285.



4 p.m. Cardiovascular research seminar. "Order Out of Cardiac Fibrillation." Jose Jalife, prof. and chair of pharmacology, State U. of N.Y. Health Science Center,

Syracuse. Room 801 Clinical Sciences Research Bldg. 362-8901.

4 p.m. Joint Center for East Asian Studies Colloquium Series. "The American Lawyer in Japan." John O. Haley, U. of Wash. School of Law. Room 310 Anheuser-Busch Hall. 935-4448.

4:30 p.m. Mathematics colloquium. "The Hidden Markov Model, Linguistics and Gene Finding." Mingping Qian, prof. of mathematics, Peking U., and visiting prof. of mathematics, U. of Southern Calif. Room 199 Cupples 1 Hall (tea 4 p.m., Room 200). 935-6726.

5 p.m. Vision Science Seminar Series. "Last Nail in the Coffin: Transcripts Expressed Late in Lens Fiber Cell Differentiation." David C. Beebe, dir., Cataract Research Center, prof. of cell biology and physiology and of ophthalmology and visual sciences. East Pavillion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

Friday, March 17

Noon. Cell biology and physiology seminar. "A General Principle for Intracellular Membrane Fusion." James E. Rothman, cellular biochemistry and biophysics, Memorial Sloan-Kettering Cancer Inst., N.Y. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. Gallery of Art Friday Forum Luncheon Lecture Series. "Beginnings: The Taste of the Founders." Sabine Eckmann, curator. Cost: \$15 (includes lunch). Gallery of Art. 935-5490.

Sports

Friday, March 3

2 p.m. Women's softball at Forest Park Community College. 935-5220.



Monday, March 6

2 p.m. Women's softball at Missouri Baptist College. 935-5220.

Music

Sunday, March 12

4 p.m. Concert. The Eliot Trio. David Halen, violin; John Sant'Ambrogio, cello; and Seth Carlin, piano. Steinberg Hall Aud. 935-4841. See story on page 6.

Thursday, March 16

8:30 p.m. Holmes Jazz Series. William Lenihan Quartet. Holmes Lounge, Ridgley Hall. 935-4841.

Friday, March 17

8 p.m. WU Opera. "Albert Herring." Comic opera by Benjamin Britten. Jolly Stewart, dir. Bixby Gallery, Bixby Hall. 935-6543.



Performances

Saturday, March 18

8 p.m. OVATIONS! "2.5 Minute Ride." Lisa Kron, monologist. Cost: \$25. Edison Theatre. 935-6543. See story on page 4.

And more...

Thursday, March 2

8:30 a.m. STD/HIV course. "Viral STDs." (Continues March 9.) Cost: \$40. Lucas Hall, U. of Mo., St. Louis. To register, call 747-0294.

Friday, March 3

7 p.m. Gallery of Art and Visual Arts & Design Center demonstration. Fukushima Keido, Zen master, Tofuku-ji Temple, Kyoto, Japan, presents Zen painting and calligraphy. Steinburg Hall Aud. (reception following). 935-5490.

Thursday, March 9

Noon. STD/HIV national satellite broadcast. "STD Grand Rounds: Genital Dermatology." Eric P. Newman Education Center. 747-0294.

Thursday, March 16

8 a.m. STD/HIV course. "STD Clinician." (Continuing Thursdays through April 20.) Cost: \$90. Lucas Hall, U. of Mo., St. Louis. To register, call 747-0294.

Sports Section

Women hoopsters wrap up second winning season

Washington University's top-ranked women's basketball team wrapped up the 1999-2000 regular season with a 70-33 University Athletic Association (UAA) win over the University of Chicago Saturday night, Feb. 26, in the Field House. The Bears begin defense of their back-to-back national championships this Saturday, March 4, at home against the winner of a first-round game between the University of Wisconsin-Oshkosh and Wisconsin Lutheran College. The time has yet to be determined.

The Bears improve to 25-0, 15-0 UAA, to complete their second-consecutive undefeated regular season and extend their NCAA women's all-divisions record winning

streak to 63 games. WU also records the third undefeated season in conference history, matching their own mark set in 1990 and 1999.

Senior Night in the Field House turned out to be another big night for the Bears as they opened the game on a 25-4 run. The team would take its largest lead, 40-13, into the locker room at halftime. The Bears shot 48 percent in the first half while forcing 13 Chicago turnovers and holding the Maroons to just 24-percent shooting. Washington U. pushed the lead to 36, 53-17, just over three minutes into the second half and led by as many as 44 points down the stretch.

Senior Alia Fischer finished with 16 points on seven-of-nine shooting, eight rebounds and three blocks. Junior Tasha Rodgers matched Fischer's game-high total with 16 points of her own to go along with seven rebounds and four steals.

Men's basketball loses to Chicago

The men's basketball team had a chance to knock off UAA leader University of Chicago, but a last-second shot fell short and the Maroons escaped with a 61-59 win in the 1999-2000 season finale Saturday night in the Field House. Chicago (22-3, 15-0 UAA) led 56-48 with 3 minutes, 51 seconds left, but the Bears (17-8, 10-5 UAA) rallied to tie the game at 59 as junior Ryan Patton hit two free throws with 10 seconds left to play. Chicago's Derek Reich hit a turnaround jumper, though, with five seconds left, and Patton's last-second three-pointer fell short as the Maroons pulled out the two-point win.

Washington U. led by one at halftime, 25-24, and extended the lead to 38-29 with 14:15 left in the second period. Chicago answered with a 20-4 run to take the 56-48 lead. The Bears twice cut the lead

to three points during the last 3:51 of the game, but they were doomed by 12-of-20 free throw shooting in the second half. Junior Chris Alexander led the Bears with 17 points, freshman Dustin Tylka had nine points and five rebounds, and senior Dave DeGreeff had eight points and 10 rebounds. Freshman Jarriot Rook collected three blocked shots to give him 41 swats in 15 conference games this year, breaking the UAA single-season record of 38.

Runners compete at invitational

The men's and women's indoor track and field teams got their final tuneup before this weekend's UAA championships as the Bears competed in the College Conference of Illinois and Wisconsin (CCIW) Indoor Invitational Saturday in Bloomington, Ill. No team scores

were kept, but the Bears had several solid individual performances. On the women's side, senior Kristin Meade broke the indoor school record and qualified provisionally for the NCAA Championships, taking second place in the triple jump with a leap of 37 feet, 1/2 inches. Fellow senior Claudine Rigaud was second in the 55-meter dash and third in the 55-meter hurdles. Junior Susan Chou was second in the 1,500 meters, and Deia Schlosberg was second in the 5,000 meters. The women's distance medley relay team also picked up a victory. On the men's side, Richard Greene was second in the 55-meter hurdles, Dan Sarbacher was fourth in the 200 meters, Todd Bjerkaas was fourth in the 55-meter dash, and the distance medley relay team earned a provisional qualification to the NCAA championships with a victory.

Eliot Trio offers music of Lalo, Brahms, Loeillet in concert

Washington University's Eliot Trio, a piano trio made up of three prominent St. Louis musicians, will perform at 7:30 p.m. Sunday, March 12, in Steinberg Hall Auditorium. The program features Edouard Lalo's "Piano Trio in C minor, op. 7," Johannes Brahms' "Piano Trio in B Major, op. 8" and Jean-Baptiste Loeillet's "Piano Trio in B minor." The concert is free and open to the public.

The Eliot Trio consists of Seth Carlin, professor of music and director of the piano program at the University; David Halen, concertmaster for the Saint Louis Symphony Orchestra (SLSO); and John Sant'Ambrogio, the orchestra's principal cellist.

Carlin has performed as a soloist with orchestras including the SLSO and the Boston Pops and has appeared at the Festival of Two Worlds in Spoleto, Italy; the Newport Music Festival in

Rhode Island; Lincoln Center's "Great Performers" series; and New York's Merkin Hall series "On Original Instruments."

Halen has been with the SLSO since 1991 and was appointed its concertmaster in 1995. His solo playing in the orchestra's performances of Strauss' "Ein Heldenleben" received acclaim in London and Frankfurt. Before coming to St. Louis, Halen was

assistant concertmaster of the Houston Symphony Orchestra.

Sant'Ambrogio has been the SLSO's principal cellist since 1968; before that he was a member of the Boston Symphony Orchestra for nine years. He was principal cellist at the Grand Teton Festival in Wyoming and in 1988, founded the "Strings in the Mountains" festival in Steamboat Springs, Colo.

For more information, call 935-4841.

The Eliot Trio in Concert

Where Steinberg Hall Auditorium

When 7:30 p.m. March 12

Admission Free and open to the public

Triumph

Faculty firm sold
for \$355 million

— from page 1

providers. There are predictions that the Internet could account for 90 percent of the world's bandwidth by 2003 and that traffic will increase 8,000-fold over the next decade. This expansion drives the demand for network scalability and growth along with the need for reliable, high-capacity networks.

Cisco is acquiring Growth Networks to give service providers next-generation routing and switching capacities.

As emerging technologies such as optical networking increase the carrying capacity of the network backbone, demand arises for products that can route and switch traffic at increasingly higher rates and capacities. Cisco now believes, with this acquisition, that it will have a scalable switching technology and systems expertise to develop the next generation of switches and routers.

"To date, the commercialization of this invention, made from a government-funded research project, has generated more than 55 jobs and tax revenue of over \$70 million," said Edward R. Fickensher, technology business development manager at the University. "Most importantly, the improved communications capability resulting from this commercialization effort will take

the Internet to another level, which will greatly benefit the public. We wish the inventors and employees of Growth Networks our best in their continued endeavors with Cisco."

Andrew Neighbour, associate vice chancellor and director for technology management, called the Growth Networks story "a textbook case of technology transfer done correctly. I view this as a breakthrough in the new order of technology management," he said. "It illustrates how universities and the private sector can work effectively together to create new businesses without compromising the interests of the University and its faculty."

Parulkar's research emphasis has been on high-speed "internetworking" with high quality of service guarantees. A linchpin of Growth Networks is Turner's internationally recognized expertise in the design and analysis of switching systems. He holds more than 20 patents on designs for high-speed switching. Cox has been a faculty member here since 1955 and has been a major player in a number of key communications advances in telemedicine and other areas.

"It's very satisfying to see a vision that has been a long time in the works become real," said Turner, who began high-speed switching research in the 1980s. "The efforts of the ARL now become part of a large, important company such as Cisco, and we expect the technology will make a significant impact on the world at large."

Campus Watch

The following incidents were reported to University Police from Feb. 21 - 27. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

Feb. 23

5:17 p.m. — A student reported that a black Volkswagen Jetta struck him as he rode his bicycle west on Shepley Drive in front of the parking garage. The driver left the scene. The student was not hurt, and the bike was not damaged.

Feb. 24

9:13 a.m. — A Bon Appetit employee reported the theft

of \$2,333.72 from a locked safe in the company's locked office on the lower level of Mallinckrodt Center.

University Police also responded to six additional reports of theft, three additional auto accidents, 10 reports of vandalism, four false fire alarms, two bike thefts, one report of a suspicious person, one report of public indecency, one fire and one unauthorized party.



Face to face Chancellor Mark S. Wrighton talks with (from left) sophomore Rachel Forisha, sophomore Aaron Powell, junior Ian Simon and sophomore Amy Appel following a Feb. 21 "fireside chat" with the residents of Robert S. Brookings College. The open discussion was held in Lien Commons and featured a catered dinner for those who signed up in advance.

Smile!

Study here pinpoints
adolescent milestone

— from page 1

Willingness to smile increases steadily for both boys and girls during grades one through four, although girls always maintain a small lead. But by fourth grade, 77 percent of boys sport yearbook smiles, compared with 89 percent of the girls — the first point at which the gender difference is statistically significant.

"Grades four through six appear to represent a significant turning point for smiling and other behaviors related to gender development," Dodd said. "It is surely not coincidental that this period corresponds to puberty and heightened interest in the opposite sex. By freshman year, the difference in smiling reaches its peak, with 70 percent of girls smiling, compared to only 43 percent of boys."

Interestingly, high school boys and girls both experience a small jump in their willingness to smile for senior class photos — smiling climbs to 84 percent among girls and to 65 percent among boys.

Similar percentages persist in college yearbooks where smiles are present on 87 percent of young women and 64 percent of young men. Among the mostly adult population of school faculty and staff, yearbook smiling rates average 56 percent for men to 80 percent for women.

By pinpointing the various ages at which gender differences in smiling emerge, researchers hope to gain a greater understanding of when and why various gender differences take hold among adolescents. Although a number of theories have been put forward to explain

for their definitions of the 'ideal' man and woman, they are likely to find stereotypical portrayals of serious, unsmiling men and lighthearted, smiling women," Dodd said.

An alternative explanation of the study's findings focuses on the social nature of the yearbook photo shoot. "Girls and young women may view 'picture day' as a unique social event, in which there is a social pressure to dress up and present their 'best face' for the camera," Dodd said. Boys, on the other hand, might prefer to project an image of seriousness, an important characteristic of masculinity.

Regardless of motivation, the smile's place in yearbook photos appears to be secure. Despite a general loosening in gender roles, Dodd's analysis found that smiling habits of the sexes have

changed very little in nearly three decades of yearbook photos.

"It's possible that there have been broad changes in smiling behaviors in less formal social settings over the years, but the habits of students sitting for yearbook photos seem particularly resistant to cultural change," he said.

"If preadolescents turn to the media for their definitions of the 'ideal' man and woman, they are likely to find stereotypical portrayals of serious, unsmiling men and lighthearted, smiling women."

DAVID K. DODD

why women smile more, most focus on how preadolescents respond to cultural messages about sex and sexuality.

Dodd and others have shown, for instance, that women in newspaper and magazine ads are much more likely than men to be portrayed as weak, passive, frivolous and lighthearted. "If preadolescents turn to the media

Employment

Use the World Wide Web to obtain complete job descriptions. Go to cf6000.wustl.edu/hr/home (Hilltop) or medicine.wustl.edu/wumshr (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Medical Science Writer 980189
Assistant Dean and Academic Coordinator 990210
Manager 990233
Gift Accountant 990244
Director/Executive Faculty Liaison 990280
Engineering Librarian 990364
Counselor 000014
Regional Director of Development 000057
Administrative Secretary 000065
Assistant Dean and Academic Coordinator 000093

LAN Engineer 000094
Library Assistant 000099
Insurance Assistant 000101
Secretary/Technical Typist (part time) 000102
Secretary 000109
Head of Access 000116
Assistant University Webmaster 000118
Supervisor, Help Desk and E-mail Administration 000144
Assistant Director, Management Systems 000149
Administrative Coordinator 000160
Library Technical Assistant for Islamic Studies 000162
University Web Editor 000164
Customer Services Representative (part time) 000165

Lab Technician III 000167
Lab Technician III 000168
Administrative Aide/Environmental Engineering 000169
Unix Systems Administrator 000171
Computer Lab Supervisor 000182
Communications Technician I 000188
Researcher 000190
Research Assistant 000191
Field Station Manager 000194
Department Secretary (part time) 000197
Data Entry Operator 000199
Oiler 000202
Seismic Data Analyst (part time) 000203
Campus Visit Assistant 000204
Assistant Graphic Designer 000206

Lab Technician 000208
Department Secretary 000209
Researcher 000212
Construction Accounting Assistant II 000214
Faculty Assistant 000215
Fixed Asset Accountant 000219
Accountant 000220
Department Secretary 000222
Administrative Secretary 000223
Assistant Director of Admissions 000224
Administrative Aide 000225
Administrative Assistant, Editorial Office 000228
Sales Associate (part time) 000229
Registrar/Administrative Assistant 000231

Medical Campus

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

Professional Rater (part time) 000299
Clerk I West County (part time) 000496
Research Technician II 000686
Patient Services Representative I (part time) 000950
Insurance Billing and Collection Assistant II (part time) 000961
Research Technician 001003

Clerk I (part time) 001025
Patient Services Representative 001049
Insurance Billing and Collections Assistant II 001056
Clinical Nurse Coordinator 001158
Secretary III/Education Coordinator 001177
Coding Coordinator 001198
Secretary I 001212
Clinical Laboratory Assistant 001221
Medical Assistant II 001229
Secretary II 001230
Research Lab Supervisor 001233
Medical Secretary I 001311
Secretary II 001319
Research Patient Coordinator 001340

Notables

Patty Jo Watson receives gold medal from archaeological institute

Patty Jo Watson, Ph.D., the Edward Mallinckrodt Distinguished Professor of Anthropology in Arts & Sciences, recently received the Gold Medal



Watson: Tribute included colloquium

for Distinguished Archaeological Achievement from the Archaeological Institute of America. The tribute included a colloquium in her honor to which some of her many former students, now established scholars, contributed papers.

"Patty Jo Watson is an exceptional archaeologist because of the breadth and depth of her contributions to the discipline," noted Nancy C. Wilkie, institute president. "The profession of archeology has greatly benefited from her books and articles, including the landmark publication 'Archaeological Explanation: The Scientific Method in Archeology.' She continues to make important advances in terms of teaching, field work and theoretical insights."

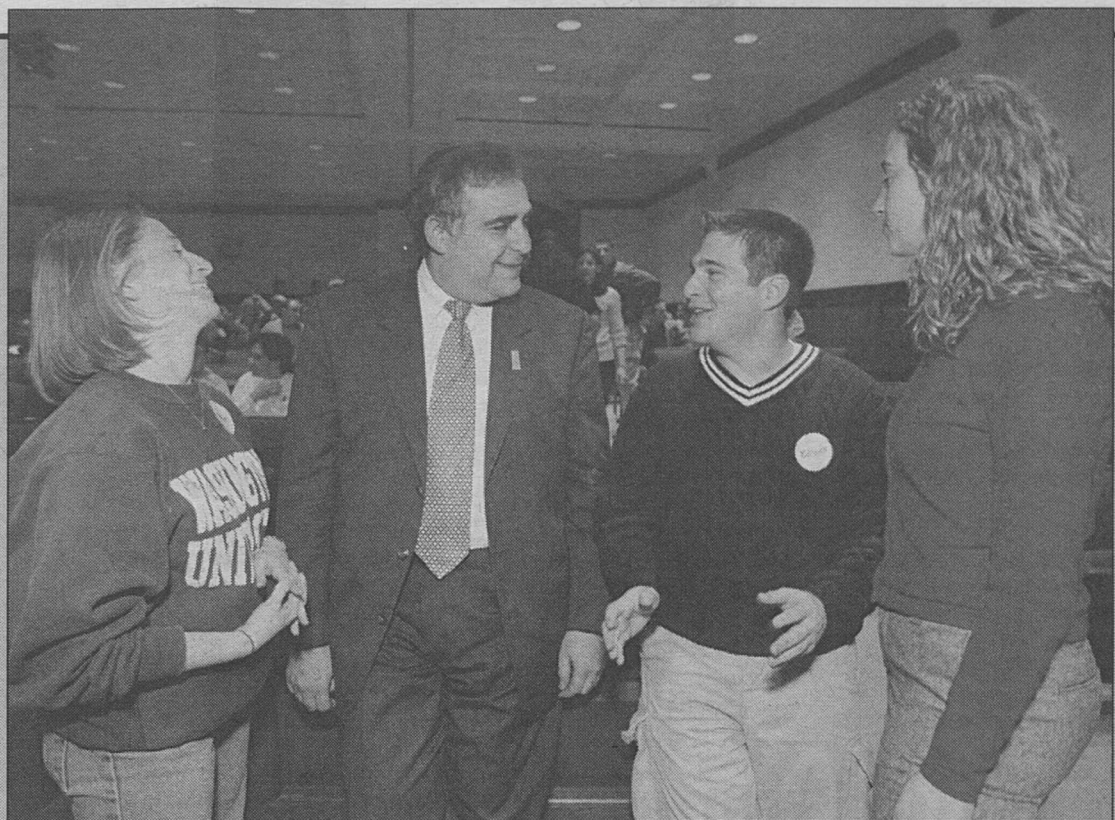
Additionally, Watson recently received the Science Award from the National Speleological Society, of which she is a life member. The award recognizes her distinguished career as one of the world's leading

experts in cave archaeology.

"I am absolutely delighted to know that Patty Jo's important achievements have been recognized and honored by her colleagues," said Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences. "She has led the field of archaeology into new areas, and her work has had a profound effect on our Department of Anthropology. She has brought the teaching of archaeology alive to our students, undergraduate and graduate, many of whom also have gone on to achieve great things in the field."

Watson is highly respected for her interdisciplinary scientific contributions to North American prehistory. She is a member of both the American Academy of Arts and Sciences and the National Academy of Sciences and a fellow of the American Association for the Advancement of Science. Among her many honors are the Fryxell Medal from the Society for American Archaeology and the Distinguished Service Award from the American Anthropological Association.

A scholar of both Old World and New World archeology, Watson has authored or co-authored seven books and numerous articles and co-edited three books. She continues to study archeological remains from caves and shell mounds in Kentucky and Tennessee.



Shalom Richard Joel (second from left), the president of Hillel International Center in Washington, D.C., chats with (from left) freshman **Deborah Kerson**, junior **Brett Cohen** and sophomore **Amy Rabin** during a dialogue session Feb. 23 at the Mudd Law Building. Joel accompanied philanthropists **Charles and Lynn Schusterman** of Oklahoma on a two-day visit to campus. The Schustermans, who paid the expenses for 3,000 U.S. students to visit Israel over winter break, including 39 from Washington University, wanted to see a campus "in action" and spent Feb. 23 and 24 on the Hilltop.

Campus Authors

Rachel Roth, Ph.D., assistant professor of political science and women's studies in Arts & Sciences

Making Women Pay: The Hidden Costs of Fetal Rights

(Cornell University Press, 2000)

The politics of fetal rights is one of the most controversial issues of our time. Once backed primarily by anti-abortion activists, fetal rights claims are now promoted by a wide range of interests in American society, a trend that has cost women

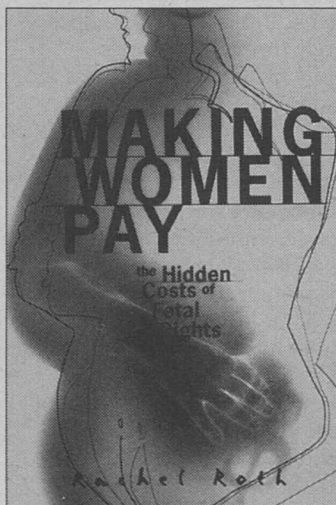


important personal freedoms, employment opportunities and civil rights, according to a new book by Rachel

Roth, titled "Making Women Pay: The Hidden Costs of Fetal Rights." Roth places current events in historical and comparative context to argue that the politics of fetal rights is both a backlash against women and also part of a long tradition of reproductive politics in the United States that includes struggles over birth control, abortion and eugenics. Against a backdrop of gripping stories about actual women, Roth analyzes the problems fetal rights claims create for women in the areas of employment, health care and drug and alcohol regulation. She reviews two decades of court decisions and public policies since 1973, the year of the Roe vs. Wade decision legalizing abortion. These developments affect all women — pregnant or not — because all women are considered "potentially pregnant" for much of their lives.

One of the central aims of the book is to expose how the concept of "maternal-fetal conflict" serves to obscure the conflicts women find themselves in with corporate, medical and government authorities over how they should conduct their reproductive lives. When these authorities make rights claims on behalf of fetuses, the usual justification involves improving the chance of a healthy birth. But this strategy is not necessary to achieve the goal of a healthy birth, is often counterproductive to that goal, and always undermines women's equal standing as citizens, Roth says.

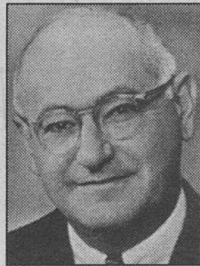
The campaign for fetal rights focuses attention solely on women as the source of fetal harm, diverting attention away from the broader context in which women live and work, and from political decisions about how to allocate resources that might benefit fetuses, pregnant women, children and parents.



Obituary

S. Richard Silverman, former CID director, professor emeritus

S Richard Silverman, Ph.D., a crusader for the oral education of the deaf and a former director of the Central Institute for the Deaf (CID), died Monday, Feb. 14, 2000, in Gainesville, Fla. He was 89 years old.



Silverman: Headed CID for 25 years

Private memorial services were held Feb. 16 in Gainesville. Silverman was an alumnus of Washington University, earning a master's degree in 1938 and a doctorate in 1942. During a 36-year affiliation with the University, he served as professor of audiology in speech and hearing at the Graduate School of Arts & Sciences and professor of audiology in otolaryngology at the

School of Medicine. He became professor emeritus in 1982.

As director of the CID from 1947 to 1972, Silverman campaigned for the oral education of the deaf. He traveled extensively around the world to share clinical and educational techniques developed at CID and to enlist support for research into the science of hearing.

"Dick was a magnificent combination of steady principles and a very human touch with all sorts of people who worked here," said Ira J. Hirsh, Ph.D., director emeritus at CID and research professor in otolaryngology at the medical school. "He worked in every area of the institute and was familiar with and competent in everything that was going on here."

In 1976, an annual lecture was endowed in Silverman's honor, and the CID plans to name the entrance to the South

Plaza on its campus in his memory.

Silverman served as president of the American Speech Language Hearing Association, the Alexander Graham Bell Association for the Deaf, the Council on the Education of the Deaf, the National Advisory Committee on the Education of the Deaf and as a member of the President's Committee on the Employment of the Physically Handicapped.

His honors include the Distinguished Alumni Award from Washington University, the St. Louis Globe-Democrat's 1969 Humanities Award, an honorary fellowship in the American Academy of Ophthalmology and Otolaryngology and membership in the American Otological Society.

Silverman is survived by his wife, Sara Ella (Sally) Hill Silverman; a daughter, Rebecca Howard of Gainesville, Fla.; and two grandsons.

For The Record

Of note

Marilyn M. Cohn, Ph.D., adjunct associate professor of education and director of preservice teacher education in Arts & Sciences, recently was selected as a Carnegie Scholar in the Carnegie Academy for the Scholarship of Teaching and Learning's Program for K-12 Teachers and Teacher Educators. ...

Jeffrey A. Drebin, M.D., Ph.D., assistant professor of surgery, has received a \$105,000 grant from the Susan G. Komen Breast Cancer Foundation for a project titled "HER2/neu Antisense Therapeutics in Human Breast Cancer." ...

Scott Saunders, M.D., Ph.D., assistant professor of molecular biology and pharmacology, has received a three-year \$229,287 grant from the March of Dimes

Birth Defects Foundation for a project titled "Glypican-3 Function in Simpson-Golabi-Behmel Syndrome." ...

William E. Wallace, Ph.D., associate professor of art history and archaeology in Arts & Sciences, won the first Umhoefer Prize for Achievement in the Humanities for his book titled, "Michelangelo: The Complete Painting, Sculpture, Architecture." The prize, awarded by the Arts and Humanities Foundation, included a \$2,500 cash award.

On assignment

Connie Grbac, nursing administrator in the Department of Otolaryngology/Head and Neck Surgery, has been elected to a two-year term on the National Certification Board of Otolaryngology/Head and Neck Nurses.

Grbac has been an active member of the Society of Otolaryngology/Head and Neck Nurses and has served in various capacities within the organization. In her role on the board, she will help develop testing questions for otolaryngology nurses seeking certification.

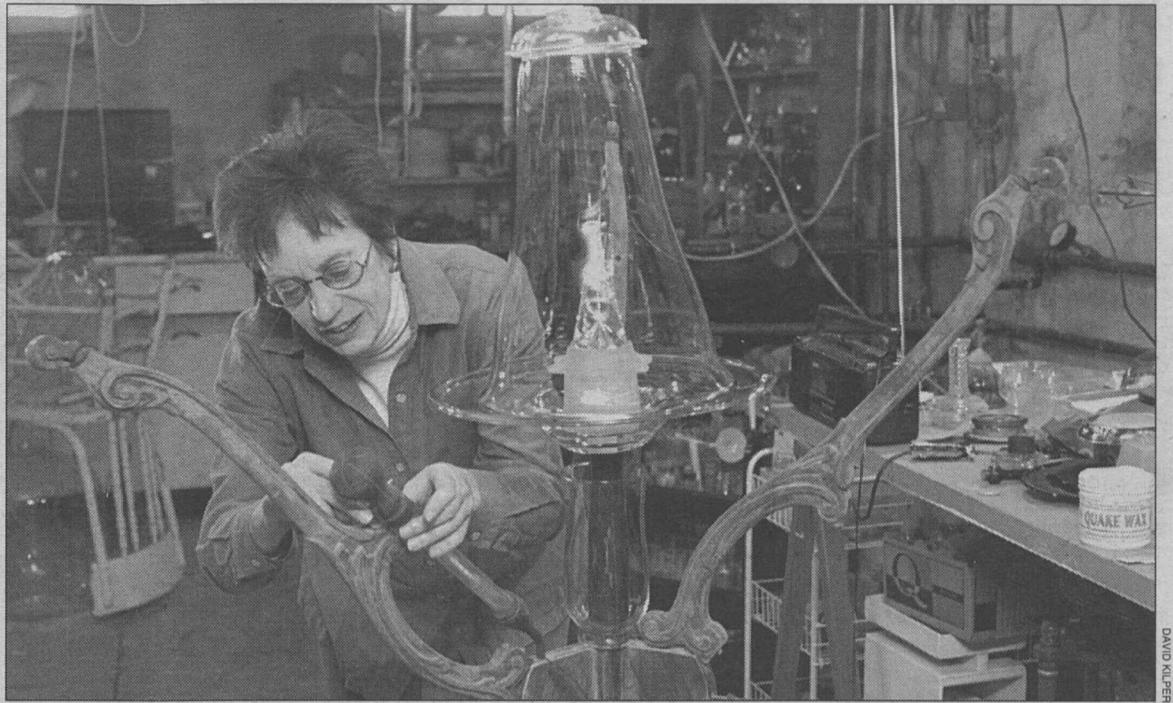
Correction

Marva Lloyd Redd, Ph.D., newly appointed as director of Student Educational Service, previously served two years as project manager for the Missouri Department of Mental Health. Prior to that, she was executive director of Liberty Easy Access Recovery Network for three years and director of St. Louis County Youth Programs for 10 years. An article in the Feb. 24 issue of the Record reported this incorrectly.

Washington People

Libby Reuter, assistant dean of the School of Art, must be able to sculpt in her sleep. How else to explain her prodigious artistic output — which these days includes sculpture, public works and even an arts festival — despite her many duties as the school's director of programming and facilities?

Reuter's average day includes overseeing operations at Bixby Hall, Lewis Center and the Academy Building; programming a full calendar of exhibitions for Bixby Gallery; and coordinating the art school's continuing education and study abroad programs. In her spare time, she's also been known to teach a course or two. In 1995, for example, she won a Kemper Grant for "Visualizing Experience: Body and Space," a class she developed with a colleague at the



Reuter works on a new piece in her studio, located in the basement of her Benton Park home. The as-yet-untitled sculpture is inspired by the writing of renowned author and psychologist James Hillman.

Sculptor's hands help shape public spaces

Libby Reuter's prodigious output includes festivals, public works and array of duties at School of Art

By LIAM OTTEN

School of Architecture.

"Libby has a very clear vision that allows her to stay focused on whatever she's doing," noted artist Marian Amies, a longtime friend who for years met regularly with Reuter and several other artists to share critiques. "Her time management skills are extraordinary, and she has a way of limiting distractions and cutting to the quick of an issue. She's had so many life experiences herself, and I think that helps her deal with other people and really understand where they're coming from."

Raised in the small town of Clintonville, Wis., Reuter spent three years at Wisconsin State University—River Falls before marrying and moving to St. Louis, where she earned a degree in art from Webster University in 1968. The next few years proved busy ones for the young artist, who would raise two children, Tobias and Hannah, divorce and embark on a career in teaching.

A crash course

It was while working at St. Louis' Crossroads School in the mid-1970s that Reuter first met Bob Fishbone and Sarah Linquist, a pair of local artists then working on a mural for the school's gymnasium. For Reuter, who was responsible for coordinating student involvement, the project would become a crash course in the means and methods of public art, from materials and techniques to writing proposals and applying for grants.

"At the time, I was really questioning the artist's role in society," she recalled. "Murals are very connected to the community — complete strangers will come up and ask questions, offer opinions and try to get involved in the process. And when you finish, you hope they'll have a sense of ownership about it."

Reuter wet her feet with a commission for the DeBaliviere branch of the St. Louis Public Library before diving headlong into life as a full-time public artist, creating works for Grand Center, the Fox Theatre, Alexian Brothers Hospital and others. With Fishbone and Linquist, she created the Central West End landmark "Sky's the Limit," a seven-and-a-half-story skyscape at the intersection of Euclid Avenue and Delmar Boulevard. (She used the proceeds to buy a house in the historic Benton Park neighborhood.) Perhaps most uniquely, she created a dozen three-dimensional murals for the St. Louis Developmental

Disabilities Treatment Center.

"They had to be tactile as well as visual experiences, since a lot of people there were visually impaired," Reuter recalled. For example, in a piece illustrating scenes from "The Wizard of Oz," the artist "put Dorothy in a wheelchair and used faux-brick to create the Yellow Brick Road. We added sand to the paint so residents could trace the image with their fingers."

Yet despite these successes, the vagaries of life as a self-employed artist, combined with the demands of raising two young children, brought Reuter to Washington University in 1982. Even now, after almost two decades of service, she's thankful for the opportunity to join the School of Art "team."

"It helps to be an artist, if you're working with artists," Reuter noted with a wry smile. "We can be very demanding, even exasperating. But that's why our students get the very best education possible — because everyone here demands it."

Reuter's arrival would prove fateful for a second, more personal reason: As the art school's new director of facilities, she began meeting with Jack Reuter, a construction manager for the University's new Athletic Complex. The pair initially coordinated moving the school's glassblowing facility, which had to make way for the swimming pool, but within a year or so they married. Tragically, after almost a decade together, Jack died from lung cancer.

Designed for artists

Recently, much of Reuter's time has been dedicated to University Lofts, a \$5.6 million downtown redevelopment project spearheaded by the art school, Bank of America and the Regional Housing & Community Development Alliance. The eight-story, 60,000-square-foot building, which opened last month, features 26 loft-style apartments designed specifically for artists (many have been rented to School of Art alumni) as well as the school's new Des Lee Gallery. Reuter, along with project instigator W. Patrick Schuchard, the E. Desmond Lee Professor for Community Collaboration, spent 18 months meeting with architects, developers and contractors.

"We made sure they did all the practical stuff," Reuter explained. "Slop sinks in every unit, lots of electrical power, no carpets anywhere. For the gallery, we put plywood behind the drywall, so

you can hang heavy things without the hooks pulling out. We also made sure there was a straight path back to the loading dock so that someday, when we're installing that 10-foot, 2,000-pound metal sculpture, we don't have to steer around any corners. Little things like that make all the difference for artists."

In addition, Reuter is currently overseeing a dramatic expansion in the school's international programs. This spring, the school began offering sophomores a semester in Florence, Italy, where they cover School of Art curriculum with School of Art faculty while also studying art history and Italian. Fifteen students are now enrolled. Next year the school is planning to debut a summer program in China.

"My ultimate goal is to have our students on every continent,"

morphic and subtly evokes a sad history of race relations. Viewing from above, however, one glimpses a multi-colored glass-bead model of mitochondrial DNA, which is set within the work's "head."

"There are only six types of mitochondrial DNA, and they correspond most closely to geographical region, not to race," explained Reuter, who has followed the issue through the work of Washington University's Alan R. Templeton, Ph.D., professor of biology in Arts & Sciences. "There's really no biological basis for racial distinctions. I wanted to examine the issue through that lens and point out that, if you go back far enough, we probably all have a common ancestor."

A similar sense of shared community seems to motivate Reuter's recent work as a public artist. Last fall, she was the chief architect behind a citywide

"Millennial Journey," a festival of events which took place at Cahokia Mounds, Union Station, Tower Grove Park and other

"How do you take something like bone or flesh, which we wouldn't normally think of as aesthetically pleasing, and allow it to communicate the transcendent?"

LIBBY REUTER

Reuter admitted with a laugh.

Appropriately, it was during a 1996 scouting mission to Florence that Reuter first encountered Catholic reliquaries, which typically contain the remains of a saint or other holy relic. "For an artist, reliquaries represent a terrific design problem," she said, explaining her fascination. "How do you take something like bone or flesh, which we wouldn't normally think of as aesthetically pleasing, and allow it to communicate the transcendent?"

Reuter's own reliquaries, which she began creating shortly thereafter, straddle a similar line between sacred and profane. These medium-sized, human-scaled sculptures are assembled entirely from recognizable worldly materials, yet address the subconscious, half-buried thoughts and emotions that often underlie contemporary social ills.

"Reliquary for Race," for example, combines a red funeral vase, a clear glass bottle, a yellow highway reflector and a brown glass dome within an explosion-proof light cage. This construction is then set on a pedestal formed by an iron milking stool, a stove grate and a fire bucket weighted with chain and electrical cord. Viewed head-on, the work is strikingly anthropo-

St. Louis sites. Special features included a man-made rainbow that viewers could walk through (if they didn't mind getting a little damp) and a series of sculptures dedicated to remembering, forgiving and creating.

"The sculptures were, in effect, reliquaries," she explained. "People could write down their own memories and contribute them to the 'Remember' sculpture, or they could burn away bad memories at the 'Forgive' sculpture or anticipate good memories to come by adding a ceremonial pebble to the 'Create' sculpture."

"At the time, there seemed to be a lot of fear and negativism about the millennium," Reuter concluded. "I wanted to do something positive."



Reuter's "Reliquary for Race" is currently on view in the School of Art's Des Lee Gallery, 1627 Washington Ave., as part of a faculty exhibition. The show is open 10 a.m. to 4 p.m. Saturdays through March 13.

Libby Reuter

Raised in Clintonville, Wis.

Education B.A., Webster University, 1968; M.A., Washington University, 1993

University Position Assistant dean and director of the Bixby Gallery at the School of Art

Family Son, Tobias, and daughter, Hannah