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RECORD

Washington
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Vol. 16 No. 27/April 9, 1992



Advanced dance: Christine O'Neal, artist-in-residence, instructs her 10-member ballet class on the finer points of dance. The class, titled "Classical Ballet 3," is made up of non-dance majors. However, many of the students were active in their hometown and regional dance companies during high school. Pictured are freshman Michel Yang in the foreground; and from left to right, senior Jennifer French and freshmen Kara Welland and Maureen Hohman.

Salamon resigns; search for new dean under way

A search for a new dean of the College of Arts and Sciences will begin immediately, Martin H. Israel, Ph.D., dean of the Faculty of Arts and Sciences, has announced. The current dean, Linda B. Salamon, Ph.D., will be joining the administration of The George Washington University in Washington, D.C. She will be dean of Columbian College and of the Graduate School of Arts and Sciences.

"Nothing is more important to the Faculty of Arts and Sciences than undergraduate education, and the central role played by the dean of the college makes this a vital position, which we should fill without delay," said Israel in his announcement.

Salamon's appointment at George Washington University is effective July 1. Columbian College will be merging with the Graduate School of Arts and Sciences, and Salamon will play a key role in the process.

"During her 13 years as dean of the college, Lee has been a leading force for high intellectual and academic standards in our undergraduate programs and in our faculty in general," says Israel. "She also has been a valuable adviser to me since I entered the office of dean of faculty. Lee has many friends and admirers among the faculty, students and alumni of Washington University who will miss her voice on this campus and who will join me in wishing her well in her new position."

Salamon, a 1963 magna cum laude graduate of Radcliffe College, earned her master's and doctoral degrees from Bryn Mawr. She specializes in the literature and art history of early modern Europe. She has been instrumental in establishing and instituting many new programs at Washington, including the Humanities Faculty Seminar, the Text and Tradition Program, the Internship in European Business and the new program in Social Thought and Analysis.

Active in national higher education organizations, Salamon has held several important positions. She was chair of the board of directors of the Association of American Colleges and regularly consults for the National Endowment for the Humanities.

University proposes construction site for new law building

The University has proposed a site for construction of a new law school building, Chancellor William H. Danforth announced last week.

Following an architectural study, an area immediately west of the school's current building, Seeley G. Mudd Law Building, was selected as the most appropriate site. Efforts to raise gift support for the project are under way and a date to begin construction will be decided when sufficient gift commitments have been secured from alumni and friends.

Dorsey D. Ellis Jr., J.D., dean of the School of Law, said the school needs a new building because programs have expanded steadily since the design and construction of the building some two decades ago.

The architectural planning firm of Kallmann, McKinnell & Wood of Boston, Mass., conducted a study of the Hilltop Campus to assess possible sites. The University chose the proposed site from a group of six potential locations. The site chosen offers two critical advantages over other possible sites. First, it is the only site for a new building that would

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Preserving the environment Campus community rallies around new recycling plan

What is white and blue and all over campus? Answer: Boxes for recycling paper.

Washington University is doing its part for the environment with a new recycling program.

Recently established, the program coordinates recycling of office paper, computer paper and aluminum cans campuswide. Office paper and computer paper is dumped into central dumpsters by Clean-Tech, a contracted custodial service, and then picked up from those dumpsters by both Midwest Waste and Environmental Industries, who recycle the items. Aluminum cans are recycled by both student groups and Midwest Waste.

The new campus recycling plan covers "99.9 percent of the buildings on campus," says Thomas Harig, acting associate vice chancellor for business affairs. The plan includes the student residences on the South-40, Washington Hall on the Fontbonne College campus and the Millbrook Apartments, in addition to all the administrative and academic buildings.

Many departments have been recycling on their own for quite a while, says Harig. They have been incorporated into the campuswide effort automatically.

"The campus effort is knitting together all the small pockets of recycling and creating the opportunity for everyone else to join in with little extra effort," says Harig. "Our initial goal in this new effort is to get people in the habit of recycling," he adds.

The catalyst for the most recent campus recycling effort were two separate student initiatives. The first was a *Student Life* article last September that emphasized the importance of on-campus recycling; the second was a meeting between the student-run Environmental Action Group (EAG) and Chancellor William H. Danforth. At the meeting, EAG presented a petition of University students wanting a campus recycling program. EAG also submitted suggestions for starting such a program.

"The administration really is solidly behind this program," says Harig. "As soon as Executive Vice Chancellor

Richard Roloff realized the need for campus recycling, he established a recycling committee that includes faculty, staff and student representatives.

"It is clear already that the desire and willingness to do recycling really is here," adds Harig. "With the impetus of *Student Life*, EAG and individuals who already were recycling, this program was an opportunity just waiting to be developed."

Burris said students have been interested in recycling for two decades, but because the student population changes every year, student-run programs often fade out over the long run.

"Students first started recycling in the mid-1970s," says George Burris, director of housing and food service operations. "The problem, of course, was they didn't have the continuity, so the effort died out after several years. We (the administration) can offer the continuity for the program."

Project teaches students to conserve resources

Gay Goldman Lorberbaum, affiliate associate professor at the School of Architecture, believes in teaching her students as much about the environment as about architectural design.

In an effort to emphasize the importance of environmental issues in architecture, Lorberbaum recently gave some of the fledgling freshmen architecture students enrolled in "Architecture 112" an unusual assignment.

Dividing the class into groups, she asked some students to design an exhibit that included information about recycling, while others designed containers for recycling newspaper, aluminum cans and office paper for Givens Hall and elsewhere on campus. Other projects were creating pop-up books about the rainforest; and designing lamps to go over dorm room light bulbs. One group of students even had an actual client, the Rainforest Alliance, a local environmental group that wanted a portable exhibit about the rainforest.

Campus cooperation in the program is very strong. So far, 10,260 pounds of file stock (office paper) and 1,700 pounds of ground wood computer paper are recycled per month. Through efforts in some residence halls, the University also recycles 90,800 pounds of newspapers and 70,120 pounds of cardboard per year.

Unfortunately, as a recent Wall Street Journal article pointed out, the recycling business is "down in the dumps ... because the supply side of America's recycling revolution has been growing at an explosive rate, but the demand side is still barely under way."

Harig and his committee realize that, in addition to recycling, demand for goods made from recycled material must increase. To contribute to that demand, the bookstore and Central Stores have begun stocking recycled office supplies.

The bookstore stocks both paper and plastic products that have been

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Everyone had to use recycled or reused material. "We never thought about (recycling) at all before this project," said student Dave Cooperstein.

"For this project we had to be conscious about what we were using. If we used wood, it couldn't be from the rainforest," he said.

"It's tricky," says Darianne Ochoa, "but we learned you have to make choices. For example, we learned that we shouldn't use foamcore (because it damages the ozone layer), but every project we've ever had until now requires us to use foamcore," she said.

Jene Alie noted that reusing material would be her choice in the future. Also, one of the other student projects suggested using unbleached chipboard instead of foamcore. All students acknowledged that they were interested in that option, but didn't know where to find it.

"The bookstore does stock some recycled material," says Dave Wolff. "But there isn't much demand yet for it."

Intellectual historian Sulloway discusses Freud's case histories

Frank J. Sulloway, an intellectual historian, will give the Arthur Holly Compton Memorial Lecture at 11 a.m. Wednesday, April 15, in the May Auditorium of the John M. Olin School of Business. His lecture on "Reassessing Freud's Case Histories: The Social Construction of Psychoanalysis," which is part of the University's Assembly Series, is free and open to the public.

Sulloway, a visiting scholar in the Program for Science, Technology and Society at the Massachusetts Institute of Technology, has studied Freud, the father of psychoanalysis, for 19 years. His first major book was *Freud, Biologist of the Mind: Beyond the Psychoanalytic Legend*. In *Freud*, Sulloway's intentions are to detail Freud's debt to both science and his peers, and to "elucidate the development and function of the Freud legend." The book, for which Sulloway received the Pfizer Award from the History of Science Society, was hailed in many reviews as an extraordinary addition to the literature on Freud and psychoanalysis.



Frank J. Sulloway

The author of more than 24 papers and books, Sulloway also studies the life and work of evolutionist Charles Darwin and has produced several essays on Darwin's early thought. Sulloway uncovered Freud's ties to Darwin, whose concepts of instinctual and irrational behavior were necessary to Freud's own formulations on human motivation.

Sulloway is working on *Scientific Rebels: A Study of Revolutionary Temperament in Science* and a scientific biography of Jonas Salk.

Sulloway received his doctorate in the history of science from Harvard University. He has received numerous fellowships and grants for his postdoctoral work, including Guggenheim and MacArthur Foundation fellowships. In 1989 he was elected a fellow of the American Association for the Advancement of Science "for research in the history of biology and the major studies on Darwin and Freud that resulted from it." He received National Science Foundation research grants in both 1990 and 1992.

The Compton Memorial Lecture honors the late Arthur Holly Compton, a Nobel Prize-winning physicist and former Washington University chancellor.

For more information about the lecture, call 935-4620.

Former Chancellor Thomas Eliot honored

A tribute to the late Thomas H. Eliot will be held at 4 p.m. April 20 in Graham Chapel. The ceremony will honor his contributions as Washington University chancellor. Eliot died Oct. 14, 1992, at the age of 84.

Participating in the tribute will be Burton M. Wheeler, Ph.D., grand marshal and professor of English and religious studies; W. L. Hadley Griffin, trustee; George E. Pake, trustee emeritus and former provost; Mary Taussig Hall, 1938 alumna with master's degree in social work and alumni citations in 1956 and 1990; Robert H. Salisbury, Ph.D., Sidney W. Souers Professor of American Government; and Chancellor William H. Danforth. The program also will include selections sung by the University's Chamber Choir under the direction of John H. Stewart.

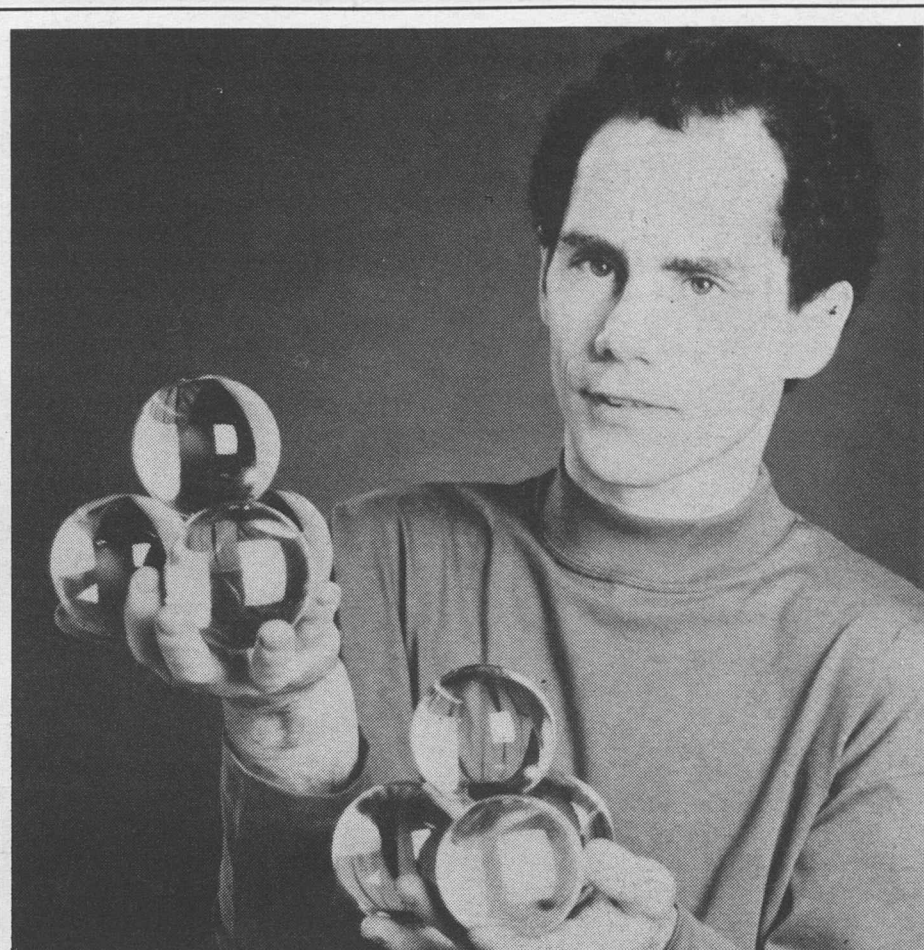
Eliot was chancellor of the University from 1962 until his retirement in 1971. A graduate of Harvard College

and Harvard Law School, he came to Washington from a broad and distinguished career in law, government service and education. He joined the University in 1952 as chair of the Department of Political Science and in 1958 was named to the Charles Nagel Professorship of Constitutional Law and Political Science.

In 1961, he became dean of the College of Liberal Arts and shortly after was appointed vice chancellor, dean of faculties. As the 12th chancellor, he completed the transition of the University from a highly respected but primarily local institution to one of the nation's leading private universities.

After leaving Washington, he was elected president of the Salzburg Seminar in American Studies, based in Cambridge, Mass.

For more information, call 935-4620.



Michael Moschen's performances combine mime, juggling, dance and physics. He will perform at Edison Theatre April 24-26.

'Moschen in Motion'

New wave juggler draws crowds

New wave juggler Michael Moschen will perform four shows April 24-26 in Edison Theatre. He was scheduled to give three performances, but due to popular demand, a children's show was added. The shows are scheduled for 8 p.m. April 24 and 25 and 2 p.m. April 25 and 26. Tickets still are available for the 2 p.m. April 25 children's show.

Both daytime matinee performances are part of Edison Theatre's "ovations! for young people" series. The matinees are hour-long presentations of works from the artist's two sold-out evening performances, titled "Michael Moschen in Motion."

The evening shows are part of Edison's "OVATIONS!" series and are co-sponsored by Dance St. Louis.

"People began ordering tickets last fall, and the original shows were sold out three months in advance," says theatre managing director Evy Warshawski. "By adding a Saturday afternoon performance, we hope to provide 100 free seats to groups of disadvantaged children and fill the

remaining seats with people who could otherwise not obtain tickets."

Children and adults alike will delight in the multitasking Moschen. Often called a "modern-day Chaplin let loose in Einstein's kitchen," Moschen wraps his spell-bound audiences in a world of balls, rings, hoops and spheres that float and spin with grace and haunting beauty. His performances combine dance, mime, juggling and physics.

Moschen has performed with the Big Apple Circus and Bill Irwin in "Not Quite/New York" and "The Courtroom." His film and television credits include Jim Henson's movie "Labyrinth," "Sesame Street" and "The David Letterman Show."

"OVATIONS!" events are made possible by grants from the Missouri Arts Council, the Regional Arts Commission, the Arts and Education Council of Greater St. Louis and the National Endowment for the Arts.

Tickets for the April 25 children's show are \$7. For more information, call 935-6543.

Students claim top prize in mathematical modeling contest

A team of undergraduate students from the School of Engineering's Department of Systems Science and Mathematics has won the top prize in the 1992 Mathematical Contest in Modeling.

The team, comprising Travis Cusick, a junior, and seniors Jerry Markman and John Weisenfeld, all are majors in systems science and engineering. They won the Operations Research Society of America (ORSA) award for the solution to their problem. They also won an all-expenses-paid invitation from ORSA to present their winning paper at the society's 1992 national meeting.

A second Washington team, comprising Scott Carpenter, a senior, and Chris Peterson, a junior, both in systems science and engineering, and Ben Gum, a junior in computer science and mathematics, was judged "meritorious," sharing the honor with 29 other teams that chose the same problem.

Hiroaki Mukai, Ph.D., professor of engineering and applied science, was the teams' adviser. He has advised teams for five years and Washington has won

four outstanding designations in four out of the last seven years. This year, more than 290 teams representing 189 colleges and universities — ranging from Harvard, Stanford and the University of Michigan to Loyola University and the Florida Institute of Technology — participated. Teams from Canada, China, Ireland, Lithuania and Hong Kong also competed.

"Our people went up against the best in the world in this contest and, if I may use an analogy, won the equivalent of a gold medal in the Olympics. I think it reflects on the broad training they receive at Washington in systems science and engineering as well as their collective talents," Mukai said.

Mathematical modeling is a rapidly expanding mathematical field that poses ways of studying a physical system and drawing useful conclusions through analysis and computer simulation. The contest presents two open-ended problems to teams of three undergraduates who choose one of the problems to solve. However, modeling problems

offer no correct answer, rather the best solution. Problem A was to determine the power to be radiated by an air traffic control radar at a major metropolitan airport; Problem B was to arrive at an optimal prioritized scheduling system for an emergency power restoration. Both Washington teams chose Problem B.

"The mathematical modeling contest differs from other mathematics contests in that it is the only national contest where the teams of students work together to find a solution," Mukai said. "Other contests either have the students work alone or have the individual team members work alone and combine scores for a team total."

Contestants were given four days — from Feb. 21 through Feb. 24 — to research the topic and come up with the solution. Contestants cannot seek help from anyone during the contest, but they may use any "inanimate" sources — journals in Olin Library, for instance — for research to support their solutions.

Thus, Mukai became as functional and inspirational to the Washington

team during the contest as, say, the statue of Stan Musial in front of Busch Stadium is to the St. Louis Cardinals during a baseball game.

Nonetheless, the students praised Mukai and the Department of Systems Sciences and Engineering curriculum for preparing them for the contest. They began earnest preparation about a month before it started.

"We had been exposed to most of the approaches we considered in our coursework at Washington University," said Weisenfeld.

"The work ethic here helped prepare us," added Markman.

The students, holing up in the Franz Berger Room on the first floor of Cupples II, worked 20-hour days to first develop several solution approaches, then work out the mathematics, and finally write the 16-page report.

As Cusick, who with Markman, is a veteran of last year's contest, explained, "The atmosphere was intense and hectic, but then they work us so hard here, we're used to that."

NOTABLES

Kenneth Chilton, deputy director of the Center for the Study of American Business, gave a talk on "The Policy Outlook for Immobile Capital: Trends in Environmental Policy" to the American Farm Bureau Federation in Kansas City. He also gave a talk titled "Revising Smog Battle Plans" to the American Association for the Advancement of Science in Chicago.

Udo Kultermann, Ph.D., Ruth and Norman Moore Professor of Architecture, gave a lecture at the Courtauld Institute of the University of London, titled "Yasumasa Morimura and the Emergence of Japanese Art in the 1990s."

Paul Michael Lutzeler, Ph.D., professor of German and comparative literature and director of the European Studies Program, is giving lectures at interdisciplinary European studies conferences in Phoenix, Ariz., and in Vancouver, British Columbia, during the spring semester. This summer he will be a fellow at the Humanities Research Center of the Australian National University in Canberra. He also will lecture at a number of Australian universities and will participate in an international symposium on European culture in Canberra. Also this summer, he will co-chair the national convention of the American Association of Teachers of German in Baden-Baden, Germany.

Bernard Reams, J.D., Ph.D., professor of law and director of the law library, and his wife, Bridget, were commissioned Kentucky colonels by Gov. Brereton Jones in recognition of their

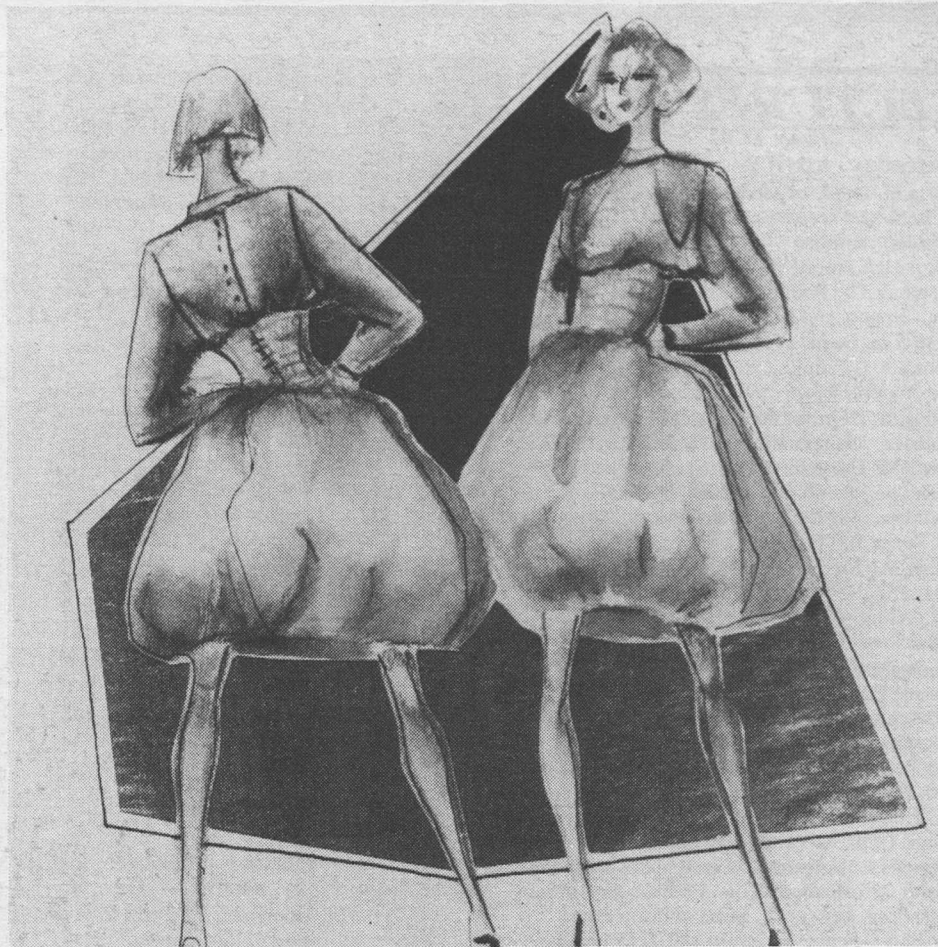
work on behalf of the Shedd Academy in Mayfield, Ky., a private boarding school for children with dyslexia and attention deficit disorder. The academy serves the St. Louis area.

Morton E. Smith, M.D., professor of ophthalmology and pathology and associate dean for postgraduate education, was a guest speaker at the Colorado Ophthalmological Society in Vail, Colo. He spoke on ocular and orbital oncology and pathology.

Murray Weidenbaum, Ph.D., director of the Center for the Study of American Business and Edward Mallinckrodt Distinguished University Professor, recently gave three lectures to the Public Affairs Institute in Tucson, Ariz. The lectures were titled "American Business in the Global Marketplace in the 1990s," "The Elements of U.S. Competitiveness," and "Government Policy and the Business Response." He also gave an address to the Tucson Alumni Club of Washington University titled "Small Wars, Big Defense: Living in a World of Lower Tensions."

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The Washington University Record will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070, or by electronic mail to p72245DP at WUVMC. Please include a phone number.



Best overall designer: Junior Bill Kerrigan won a \$2500 scholarship from Lord & Taylor for his fashion sketches. The department store chain sponsors an annual fashion design competition in the five cities where stores are located. In the St. Louis contest, Kerrigan was awarded best overall designer. The above sketch of a gold lame' and lace cocktail dress was one of three designs he submitted.

Introduction to new faculty

The Record is running a series profiling new faculty on the Hilltop and Medical campuses.

Susan J. Lewis, captain, assistant professor of military science, comes to Washington after serving in command of Hotel Company, 71st Transportation Battalion, an advanced individual training company consisting of transportation and aviation military occupational specialties. She received her bachelor's degree in business administration in 1984 from Marshall University in Huntington, W. Va., and is working on her master's degree in business administration from the Florida Institute of Technology. Lewis specializes in transportation.

Mahesh S. Maheswaran, assistant professor of finance, comes to Washington from the University of Minnesota, where he taught undergraduate finance

courses while pursuing a doctorate in finance. He received his bachelor's degree in commerce from Vivekananda College in Madras, India, in 1983 and his postgraduate diploma in management from the Indian Institute of Management in Calcutta, India, in 1986. He is working on his doctorate from the University of Minnesota. His areas of interest are continuous time models of asset pricing, market micro-structure and time series econometrics. He co-authored an article, titled "Empirical Implications of Arbitrage Free Asset Markets," with Christopher A. Sims in 1990.

RECORD

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Photographers: Joe Angeles, Tom Heine, David Kilper and Herb Weitman
Record (USPS 600-430; ISSN 1043-0520), Volume 16, Number 27/April 9, 1992. Published weekly during the school year, except school holidays, monthly during June, July and August, by the Office of Public Affairs, Washington University, Box 1070, One Brookings Drive, St. Louis, Mo. 63130. Second-class postage paid at St. Louis, Mo.

Address changes and corrections:

Postmaster and non-employees: Send address changes to: Record, Washington University, Box 1070, One Brookings Drive, St. Louis, Mo. 63130.
Hilltop Campus employees: Send to: Human Resources Office, Washington University, Box 1184, One Brookings Drive, St. Louis, Mo. 63130.
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Law building —

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allow easy and convenient interaction with other schools on the Hilltop Campus. Second, this location leaves open the possibility of using some of the current building as an annex to the new structure. No architectural firm has been chosen to design the new law building.

The proposed site requires that three fraternity houses be relocated to a nearby area. The University plans to move the Beta Theta Pi, Kappa Sigma and Sigma Alpha Epsilon fraternity houses to an area between the remaining houses on Fraternity Row and the Tao Tennis Courts. The University will incur all relocation costs, in keeping with its operating understandings with the fraternities.

The University will form a selection committee to choose an architectural firm to design the three new fraternity houses. Students and alumni from the three fraternities will work with the University on plans for the new houses.

Engineering school honors alumni

Four St. Louis engineers received the School of Engineering Alumni Achievement Award March 25 at the University Club of St. Louis.

This year's honorees and their year of graduation are: William J. Coad, B.S., mechanical engineering, 1957; Frank G. Kriz, B.S., civil engineering, 1956; James M. McKelvey, M.S., chemical engineering, 1947, Ph.D., chemical engineering, 1950; and Robert P. Stupp, B.S. civil engineering, 1952.

Coad is chairman of the board and president of McClure Engineering Associates, a firm that provides building facility consulting to more than 500 clients. Kriz is the executive

director of the Metropolitan St. Louis Sewer District, an agency responsible for collecting and treating wastewater and controlling storm water generated in a 520-square-mile area, covering all of the city of St. Louis and most of St. Louis County. McKelvey, the Edward C. Dicke Professor of Chemical Engineering at Washington University, has been a faculty member since 1957, having served as the School of Engineering dean from 1964 to 1991. Stupp is the president and director of Stupp Bros. Bridge & Iron Co. in St. Louis, a company with more than 135 years of experience in the fabrication of steel for various building structures.

Recycling plan — *continued from p. 1*

made from recycled material, says Paul Scheffel, director of campus stores. Notebooks, files, notepads, vinyl binders and plastic letter trays are among the items made from recycled products. These goods are the same price as those made from non-recycled material.

Samantha Rainwater, Central Stores manager, reports that Central Stores also stocks supplies made from recycled material. In addition, she has been active in educating the campus through the monthly publication Access, which provides information about central stores and Purchasing. In past issues of Access, Rainwater has notified staff about in-stock supplies made from recycled material and educated readers about recycling terms and ways to minimize consumption. Reusing interoffice mail envelopes; using a mug instead of a styrofoam cup; and using white instead of colored paper because white can be recycled more easily are all tips Rainwater has provided to Access readers.

"I am seeing a lot more requests for information about recycled products," says Rainwater. "We stock toilet paper, paper towels, copy paper, computer paper and 3M Post-it notes made from recycled paper. We are constantly on the lookout for other products made from recycled material, but we have to be careful to make sure the item is the

same quality (as the non-recycled one)."

In addition to quality, cost is another important issue. Recycled materials cost slightly more, but this is primarily because demand is low, says Rainwater. One ream of recycled copy paper costs 50 cents more than a ream of low-cost copy paper. The irony is, if more people used recycled paper, the cost would drop. During the last fiscal year, Central Stores sold more than 5,000 reams of recycled paper compared with more than 95,000 reams of other types of copy paper.

"We are a big consumer of paper and could demand a lower price on recycled paper from our suppliers if we can get a greater demand for the product," Rainwater asserts.

Rainwater is optimistic that the desire for recycled goods will increase, but she recognizes there is a long way to go.

That optimism is felt by the entire recycling committee. Harig says the committee is reviewing the program and beginning to consider expanding it to include other recyclable material.

"The Hilltop Campus community can take pride in its recycling program and the results realized since 1991," says Harig. "With the continued enthusiasm, I am confident that we can continue to improve and expand upon an already successful program."

— Debby Aronson

CALENDAR

April 9-18

LECTURES

Thursday, April 9

9:30 a.m. Dept. of Medicine Presents the Michael and Irene Karl Lecture. "The Troubled Profession: Is Medicine's Glass Half Full or Half Empty?" Steven Schroeder, president, The Robert Wood Johnson Foundation. Clopton Aud., 4950 Audubon Ave.

10:30 a.m. Dept. of Mathematics Seminar. "Complex Dynamics," Richard Laugesen, WU grad student. Room 199 Cupples I.

2:30 p.m. Dept. of Mechanical Engineering Seminar. "Computation of Hypersonic Viscous Flowfields Using the Parabolized Navier-Stokes Equations," Reinhold Gerbsch, doctoral candidate, WU Dept. of Mechanical Engineering. Room 100 Cupples II.

3 p.m. Performing Arts Dept. Lecture. "Adapting the Novel for the Stage," Michael Fry, WU visiting prof., Birmingham U. Room 313 Mallinckrodt Center.

4 p.m. Central Institute for the Deaf Research Seminar. "Results of Measurements of Hearing Protectors Depending on Realization of Sound Field," Eva Svenson, research engineer, Karolinska Institute, Sweden. Second Floor Aud., Clinics and Research Bldg., 909 S. Taylor Ave.

4 p.m. Dept. of Earth and Planetary Sciences Colloquium. "Earthquakes and Crustal Deformation in the Aleutian Arc," Goran E. Ekstrom, asst. prof., Dept. of Earth and Planetary Sciences, Harvard U. 102 Wilson.

4 p.m. Dept. of History and Jewish and Near Eastern Studies Present a Lecture, "Changing Mentalities Among Italian Jews in the Late Renaissance," Reuven Bonfil, prof. of Jewish history, Hebrew U. Hurst Lounge, 201 Duncker.

4 p.m. Dept. of Biology and Biomedical Sciences Presents the Annual 38th Robert J. Terry Lecture, "Pre and Postsynaptic Mechanisms in Long-Term Potentiation," Roger Nicoll, U. of California, San Francisco. Cori Aud., 660 S. Euclid Ave.

Friday, April 10

9:15 a.m. Pediatric Grand Rounds. "Unusual Problems Associated With Spinal Dysraphism," Tae Sung Park, prof., neurological surgery, and assoc. prof., pediatrics, WU School of Medicine, and neurosurgeon-in-chief, Dept. of Neurosurgery, St. Louis Children's Hospital. Clopton Aud., 4950 Audubon Ave.

Noon. Dept. of Cell Biology and Physiology Seminar. "Understanding Insulin Action Using the Glucose Transporter GLUT-4 as a Model System," David James, WU Dept. of Cell Biology and Physiology. Room 423 McDonnell Medical Sciences Bldg.

1 p.m. School of Engineering and Applied Physics Seminar. "The Electrophysiology of Translocation Inhibition," William Pickard, prof., WU Dept. of Electrical Engineering. 305 Bryan.

4 p.m. Dept. of Music Lecture. "Time Redeemable: Darwin, Marx, Wagner and Dialectical Materialism," Richard Justin, visiting asst. prof., WU Dept. of Music. B-8 Blewett.

4 p.m. Dept. of Anatomy and Neurobiology Seminar. "The Expression of Tyrosine Hydroxylase Within the CNS or PNS is Controlled by Different Sequence Elements," Karen O'Malley, assoc. prof., WU Dept. of Anatomy and Neurobiology. 928 McDonnell.

7:30 p.m. Dept. of Earth and Planetary Sciences and NASA's Missouri Space Grant Consortium Presents "Asteroid Impacts and the Death of the Dinosaurs," Bruce Fegley, WU assoc. prof. of earth and planetary sciences. Room 112 Wilson Hall.

Saturday, April 11

9 a.m. Saturday Morning Neural Science Seminar. "Growth Factors and Oncogenes: A Genetic Predisposition to Cancer," Garrett Brodeur, assoc. prof., WU Dept. of Pediatrics. Erlanger Aud., McDonnell Bldg.

1:30 p.m. Dept. of Classics Illustrated Lecture. "Old St. Peter's Basilica and the Catacombs of Rome," Kevin Herbert, chair, WU Dept. of Classics. Hurst Lounge, 201 Duncker.

Monday, April 13

3 p.m. Dept. of Mathematics Operator Theory Seminar. "Commuting Toeplitz Operators With Harmonic Symbol II," Peng Lin, WU grad student. Room 199 Cupples I.

4 p.m. Dept. of Psychology Colloquium. "Attitudes and the Doctrine of Evaluative Space," John Cacioppo, Dept. of Psychology, Ohio State U. Room 102 Eads Hall.

4 p.m. Immunology Seminar. "Structural and Functional Characterization of a Human B Cell Growth Factor," Julian L. Ambrus Jr., assoc. prof., WU Dept. of Medicine, Howard Hughes Medical Institute. Third Floor Aud., Children's Hospital.

4 p.m. Dept. of Biology Seminar. "The Role of Mutation in Evolution and Extinction," Michael Lynch, Dept. of Biology, U. of Oregon. Room 322 Rebstock Hall.

4 p.m. Dept. of Chemistry Seminar. "Effects of Chemical Structure on the Properties of

Model Epoxy Resins," Lucien Monnerie, prof., Ecole Supérieure de Physique et Chimie Industrielle de la Ville de Paris. 311 McMillen.

8 p.m. School of Architecture Lecture. "Recent Work," Carlos Zapata, architect, The Design Studio, N.Y. Room 120 Givens Hall.

Wednesday, April 15

8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds. "The IUD: A Forgotten Choice," Todd Lemmon, chief resident, WU Dept. of Obstetrics and Gynecology. West Pavilion Amphitheater, Barnes Hospital.

11 a.m. Assembly Series Presents the Arthur Holly Compton Memorial Lecture, "Reassessing Freud's Case Histories: The Social Construction of Psychoanalysis," Frank J. Sulloway, visiting scholar, Program for Science, Technology and Society, Massachusetts Institute of Technology. May Aud., Simon Hall.

Noon. Dept. of Biology Lecture. "The Dynamics of Terrestrial Ecosystems: Do Mycorrhizal Fungi Call the Tune?" D.J. Read, U. of Sheffield, United Kingdom. 309 Rebstock.

Noon. Marilyn Fixman Clinical Cancer Conference. "Pediatric Acute Lymphatic Leukemia: Implications in Cancer Treatment," Vita Land, pediatric oncologist, St. Louis Children's Hospital. Brown Room, Jewish Hospital.

4 p.m. Dept. of Physics Colloquium. "The KAO Project—The New Science of Quarks, Leptons, and Unified Forces," Eric Vogt, U. of British Columbia. Room 204 Crow Hall.

4 p.m. Dept. of Biochemistry and Molecular Biophysics Seminar. "Interactions of the General Initiation Factors and Regulatory Factors Leading to Activation and/or Repression of Polymerase II Transcription," Danny Reinberg, Dept. of Biochemistry, Robert Wood Johnson Medical School, Piscataway, N.J. Cori Aud., 660 S. Euclid Ave.

4 p.m. Dept. of Biology Seminar. "Nitrogen Mobilization by Mycorrhiza," D.J. Read, U. of Sheffield, United Kingdom. Room 309 Rebstock.

8 p.m. Dept. of English and the Writing Program Present "Readings From the Writing Program," with Rosa Maria Arenas, Camelia Isbell, and Linda Peavy. Hurst Lounge, 201 Duncker Hall.

Thursday, April 16

Noon. Dept. of Genetics Seminar. "Genetic Studies of an Amish Mennonite Population," Brian Suarez, prof., WU Dept. of Psychiatry. Room 816 McDonnell Bldg.

Noon. Dept. of Molecular Biology and Pharmacology. "Very High Resolution Determination of the Three Dimensional Structure of Rat Intestinal Fatty Acid Binding Protein," James Sacchettini, asst. prof., Dept. of Biochemistry, Albert Einstein College of Medicine, Bronx, N.Y. Room 423 McDonnell.

2:30 p.m. Dept. of Mechanical Engineering Seminar. "A Compact High-Order Euler Solver For Unstructured Grids," David W. Halt, doctoral candidate, WU Dept. of Mechanical Engineering. Room 100 Cupples II.

4 p.m. Dept. of Earth and Planetary Sciences Presents the Charles W. Buescher Memorial Colloquium, "The Solar System's Beginning: About Grains, Garlic and Gehlenite," John A. Wood, prof., Dept. of Earth and Planetary Sciences, Harvard U. 102 Wilson Hall.

4 p.m. Dept. of Chemistry Presents the 34th Joseph W. Kennedy Memorial Lecture, "Organometallic Chemistry in Biology: The Role of Vitamin B12," Jack Halpern, Louis Block Distinguished Service Professor, U. of Chicago. Millstone Lounge, 458 Louderman Hall.

5 p.m. Division of Biology and Biomedical Sciences Research Discussion for Students. "Diabetes Research Opportunities at Washington University," David James, asst. prof., WU Dept. of Cell Biology and Physiology. 423 McDonnell.

8 p.m. Dept. of English Colloquium. "Milton's Talent: The Authorial Icon in the Tonson Era," Joseph Loewenstein, assoc. prof., WU Dept. of English. Hurst Lounge, 201 Duncker Hall.

Friday, April 17

11 a.m. Dept. of Chemistry Lecture. "Reactivity Patterns of Transition Metal Polyhydride Complexes," Jack Halpern, Louis Block Distinguished Service Professor, U. of Chicago. 311 McMillen.

2 p.m. Committee on Comparative Literature, Dept. of Romance Languages and Literatures, and the Latin American Studies Program Present a Lecture. "The History of the History of Latin American Literature," Roberto Gonzalez-Echevarria, prof. of Spanish, Yale U. Hurst Lounge, 201 Duncker Hall.

4 p.m. Dept. of Music Lecture. "The Aesthetic Formalisms of Balanchine, Stravinsky, and Russian Poetics," Marianne Kiellian-Gilbert, Dept. of Music, Indiana U. Room B-8 Blewett Hall.

4 p.m. Dept. of Cell Biology and Physiology Erlanger-Gasser Lecture. "The All-or-None 'Law,'" Sir Andrew Fielding Huxley, Trinity College, Cambridge, England. Moore Aud., North Bldg., 4580 Scott Ave.

4 p.m. Program for Cancer Research Seminar. "Regulation of eIF-2 Gene Expression,"

Brian Safer, Protein Biosynthesis Section, National Institutes of Health. Third Floor Aud., Children's Hospital. 400 S. Kingshighway.

PERFORMANCES

Friday, April 10

8 p.m. Performing Arts Dept. Presents "Tartuffe." (Also April 11 same time, and April 12 at 2 p.m.) Edison Theatre. Cost: \$7 for public, \$5 for students, senior citizens and WU faculty and staff. For info., call 935-6543.

8 p.m. Edison Theatre "STAGE LEFT" Series Presents "The Flirtations." (Also April 11, same time.) Mallinckrodt Center Drama Studio, Room 208. **Sold Out.** For info., call 935-6543.

MUSIC

Thursday, April 9

8 p.m. Dept. of Music Presents a Collegium Musicum Concert with director Bruce Carvell. Graham Chapel. Free. For info., call 935-5581.

Friday, April 10

8 p.m. Dept. of Music Opera Workshop Presents "Double Bill at the Sheldon" (Also April 11, same time.) Seymour Barab's "A Game of Chance" and Gian-Carlo Menotti's "The Medium." Sheldon Ballroom, 3648 Washington. Cost: \$5 for general public; free to WU Friends of Music. For info., call 935-5581.

Sunday, April 12

2:30 p.m. Dept. of Music Joint Concert with the WU Wind Ensemble and University of Missouri-Kansas City Conservatory Wind Ensemble. St. Louis Art Museum Theatre. Free.

8 p.m. Gallery of Art/New Music Circle Musical Performance by LaDonna Smith and Davey Williams. Contemporary music. Steinberg Hall Aud. Cost: \$10 for public; \$6 for students.

Monday, April 13

8 p.m. Dept. of Music Presents a WU Mixed Choir Concert with director Janet Krupnik. Graham Chapel. Free. For info., call 935-5581.

Tuesday, April 14

8 p.m. Thyrsus, Student Union and the Performing Arts Dept. Present "Ideas in Motion," a student dance concert. (Continues through April 16, same time.) Dance Studio, Room 207 Mallinckrodt Center. Cost: \$2 with WU ID; \$3 for general admission.

Thursday, April 16

8 p.m. Dept. of Music Graduate Flute Recital with Margaret Currie. Fontbonne College, Room 110, Fine Arts Bldg. Free. For info., call 935-5581.

Saturday, April 18

8 p.m. Dept. of Music Graduate Voice Recital with soprano Jerril Roupf and pianist Gail Andrews. Graham Chapel. Free.

EXHIBITIONS

"Master of Fine Arts I." Through April 19. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Free. For more info., call 935-5490.

"Land Ho: Early Exploration of the Americas." April 15 through June 30. Olin Library, Special Collections, Level 5. Hours: 8:30 a.m.-5 p.m. weekdays. Free. For info., call 935-5495.

"Joseph Beuys Video Collection." Through April 26. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-5490.

"The Book as Patient, Crisis of the Printed Text." Through May 15. Glaser Gallery, 7th Floor, Medical Library, 660 S. Euclid Ave. Hours: 9 a.m.-5 p.m. weekdays. For info., call 362-7080.

"JOSE ANTONIO CODERCH: Casa Ugalde (1951). Photographs by Francesc Catala-Roca." Through April 17. Givens Hall, 1st Floor. Hours: 9 a.m.-5 p.m. weekdays. Free.

FILMS

Friday, April 10

8 and 10 p.m. Filmboard Feature Series Presents "Monty Python and the Holy Grail." (Also April 11, same times.) 100 Brown Hall. \$3.

Monday, April 13

7 and 9 p.m. Filmboard Classic Series

Calendar Deadline

The deadline to submit items for the April 16-25 calendar of the Record is April 10. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Send items to Marilyn Chill, Box 1070, or by electronic mail to p72245CM at WUVMC.

Presents "The Baron of Arizona." (Also April 14, same times.) Room 100 Brown Hall. \$3.

Tuesday, April 14

7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Presents "Himatsuri." Room 100 Busch Hall. Free.

Friday, April 17

8 and 10:30 p.m. Filmboard Feature Series Presents "Jesus of Montreal." (Also April 18, same times.) Room 100 Brown Hall. \$3.

SPORTS

Sunday, April 12

1 p.m. Baseball. WU vs. DePauw U. Kelly Field.

MISCELLANY

Thursday, April 9

8:30 a.m. Computer-Integrated Manufacturing Center Seminar. "Migrating to Metric Standards," Anton Brasunas, prof., metallurgical engineering, U. of Missouri. STIM Lab, 1144 Hampton Ave. Cost: \$50 for WU faculty and staff. For public pricing and info., call 935-4444.

Friday, April 10

1 p.m. School of Business Presents a seminar on Bayesian Inference in Econometrics and Statistics. (Also April 11, 9 a.m.) The seminar will honor Edwin T. Jaynes, the Wayman Crow Distinguished University Professor of physics at Washington University. For info., call 935-5670.

Saturday, April 11

11 a.m. Thurtene Carnival. (Also April 12, same time.) Campus parking lot at Millbrook and Skinker Boulevards. For info., call 935-2378.

Sunday, April 12

11 a.m. and 9 p.m. Student Center Palm Sunday Mass. Catholic Student Center, 6352 Forsyth Blvd. For more info., call 725-3358.

Monday, April 13

8:30 a.m. Center for the Study of Data Processing Seminar. "VMS Internals for System Managers," Laine Educational Enterprises. Digital Consulting, 11861 Westline Industrial Drive. (Through April 15, same time.) Cost: \$150 for WU faculty and staff. For info., call 935-5380.

Tuesday, April 14

8:30 a.m. Computer-Integrated Manufacturing Center Seminar. "Fundamentals of Distributed Control Systems," John Hedrick, president, A&CT Inc. STIM Lab, 1144 Hampton Ave. Cost: \$50 for WU faculty and staff. For more info., call 935-4444.

8 p.m. English Club sponsors an open mike night at Stix International House, 6470 Forsyth Blvd. For more info., call 935-1021.

Wednesday, April 15

8:30 a.m. Computer Integrated Manufacturing Center Seminar. "Imaging for Industrial Problem Solving," Michael Vannler, director, clinical research, Mallinckrodt Institute of Radiology. STIM Lab, 1144 Hampton Ave. Cost: \$50 for WU faculty and staff. For info., call 935-4444.

Thursday, April 16

8:30 a.m. Computer Integrated Manufacturing Center Seminar. "Total Quality Management," Dale Besterfield, principal, Besterfield and Assoc. STIM Lab, 1144 Hampton Ave. Cost: \$50 for WU faculty and staff. For info., call 935-4444.

7 p.m. Catholic Student Center Holy Thursday Mass. Catholic Student Center, 6352 Forsyth Blvd. For more info., call 725-3358.

Friday, April 17

7 p.m. Catholic Student Center Good Friday Service. Catholic Student Center, 6352 Forsyth Blvd. For info., call 725-3358.

Saturday, April 18

1 p.m. International Office and Women's Society annual Easter Egg Hunt. Stix International House. For reservations, call 935-5910.

Fred Rosenbaum memorial planned

Colleagues, friends and former students of Fred J. Rosenbaum are invited to gather for a memorial service Sunday, April 12. Rosenbaum, Ph.D., professor of electrical engineering at Washington, died Feb. 29, 1992, after suffering a heart attack. He joined the Washington University faculty in 1965.

During the memorial, friends will share some recollections of Rosenbaum. In addition, efforts to perpetuate Rosenbaum's memory will be announced. The ceremony will be held from 1 to 3 p.m. at the B'nai B'rith Goldfarb Hillel House, 6300 Forsyth.