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Zipper up: Sophomores in Professor William Kohn's painting class decorate the east wall of the Craft Alliance building in the Delmar Loop area. The students submitted designs for the building to a jury comprising Craft Alliance's board members and head of education. The winning entry, a giant zipper, was designed by Liz Williams. Holly Orehek (above), another student in the class, displays Williams' model of the finished mural. Kohn says the Craft Alliance wall is decorated by different groups every few years. The paint was supplied by Brod-Dugan Co.

Preparing buildings for an earthquake is conference topic

A conference designed to examine how structures can be strengthened to withstand an earthquake will help St. Louisans re-evaluate the condition of their nearly 500,000 buildings and bridges considered to be at risk during such a catastrophe.

Sponsored by Washington University, the Seismic Retrofit (structural enhancement) short course will be held May 16-18 at the St. Louis Airport Hilton. It is intended for the nation's designers, public officials, facilities managers and decision-makers needing practical information on the evaluation of structures for retrofitting and the performance of retrofitted structures during an earthquake.

The conference features some of the top construction, design and earthquake experts in the United States, including professionals from the San Francisco Bay area who witnessed the Oct. 17 Loma Prieta earthquake devastation firsthand. Performance evaluations of some retrofitted bridges and buildings during that event will be revealed to the public for the first time at the conference.

"The primary importance of this conference is the perspective we gain in evaluating structures that went through the Loma Prieta earthquake, providing a sort of benchmark for what could happen in the St. Louis area," says Phillip L. Gould, Ph.D., Harold D. Jolley Professor and chair of the Department of Civil Engineering and conference co-chair. "As far as we know, this is the first attempt to present a program that examines real-life problems in seismic retrofitting," Gould says. "Our forum features specialized techniques for various structures; out of this, we hope to find some generic retrofitting methods. But we may find that everything is a custom job."

Scientists have predicted a 50-50 chance for an earthquake of 6.0 on the Richter scale by the year 2000 along the New Madrid Fault, centered about 150 miles south of St. Louis. Unlike the buildings and structures in the San Francisco Bay area — one of the most earthquake-ready regions in the country — St. Louis structures, especially the older masonry buildings, are at great risk because of their age and construction and the absence of a mandatory building code requiring the retrofitting of the structures.

"St. Louisans know they have buildings at risk," says Thomas G. Harmon, Ph.D., professor of civil engineering and co-chair of the short course. "If people know what techniques are available, they can do something about retrofitting at a reasonable cost." Harmon also is director of civil engineering's Structural Engineering Laboratory.

According to Everett Osterloh, deputy director for building regulations in St. Louis County, there are approximately 465,000 buildings in the Greater St. Louis area. An earthquake of similar severity as the Loma Prieta event would "significantly damage between 20,000 and 30,000 St. Louis area buildings, severely damaging at least 7,000 of them to the point where they would be unsafe to occupy," he says. "I certainly support and encourage the idea of retrofitting and the need to explain it to owners of buildings because, for the most part, owners are either unaware of the problems or else misinformed. They often have an exaggerated idea that retrofitting is always very expensive."

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Seven will receive honorary degrees

Washington University will award seven honorary degrees at its 129th annual Commencement ceremony, which begins with the traditional academic procession to Brookings Quadrangle at 8:30 a.m. on Friday, May 18. In case of rain, the event will be held at 10 a.m. at The Arena, 5700 Oakland Ave. Approximately 2,480 are degree candidates for the ceremony.

The seven honorary degree recipients are: Zane E. Barnes, former head of Southwestern Bell Corp.; Bernard Becker, M.D., ophthalmologist; Frankie Muse Freeman, J.D., attorney; W. L. Hadley Griffin, LL.B., chairman of the executive committee and former head of Brown Group Inc.; Walter E. Massey, Ph.D., physicist; Robert Maxwell, renowned British publisher; and Gyo Obata, architect.

Zane E. Barnes, retired chairman of the board and chief executive officer of Southwestern Bell Corp., began his telecommunications career in 1941 as a telephone lineman with Ohio Bell Telephone Co. By 1983, he was leading Southwestern Bell through the enormous task of becoming a stand-alone company after the giant AT&T system was split in what was the largest corporation spinoff in the history of American business. Just three months after the Bell System breakup, Barnes announced a major reorganization of Southwestern Bell. The plan, which made each of the company's five market states a profit center responsible for its own bottom line and compensation, was a complete success.

As a trustee of Washington University, Barnes played a prominent role during the crucial early period of the ALLIANCE FOR WASHINGTON UNIVERSITY campaign, which raised \$630.5 million — at that time, the largest fund-raising effort in the history of American higher education. Barnes also co-chaired the effort to raise \$21 million to complete the University's Clinical Sciences Research Building on the medical campus, and chaired the ALLIANCE'S Annual Program Executive Committee. Barnes, a native of Marietta, Ohio, is a graduate and life associate trustee of Marietta College.

Head of the Department of

Ophthalmology at the Washington University School of Medicine for 35 years, **Bernard Becker** has established one of the pre-eminent departments and training programs in the country. The chairmen of nine departments in the United States and of at least three departments in Europe either completed their residencies or conducted research under Becker. A graduate of Princeton University and Harvard Medical School, Becker, now professor and emeritus head of the department, is known worldwide for his research into the causes and control of glaucoma, an eye disease that is one of the leading causes of blindness in the United States.

Becker developed acetazolamide, a drug used to control glaucoma, and pioneered administering the drug to humans. Becker collaborated with his friend Robert Shaffer, M.D., in writing one of the most widely used textbooks in ophthalmology, *Becker-Shaffer's Diagnosis and Therapy of the Glaucomas*. The book is in its sixth edition. Henry J. Kaplan, M.D., who succeeded Becker as head of the oph-

thalmology department, says Becker's "contributions to the understanding and treatment of glaucoma assure his place in history as one of the most influential and important figures in ophthalmology in this century."

Growing up in a segregated society, **Frankie Muse Freeman** dreamed of becoming a lawyer who could work to eliminate racial injustice. In 1947 her dream came true, and for more than 40 years, she has been instrumental in helping others to secure their civil rights. In 1964, in recognition of her highly successful career as a civil rights lawyer in Missouri, President Lyndon Johnson appointed Freeman to the six-member U.S. Commission on Civil Rights, and she was reappointed to the commission by Presidents Nixon, Ford and Carter.

In 1979 Freeman resigned to accept President Carter's nomination as Inspector General of the Community Service Administration, a position accountable to the president and to Congress and responsible for ferreting out fraud, waste and corruption.

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Memories in the making

Senior send-off includes picnic with parents, float with friends

Whether they're listening to the music of Johann Sebastian Bach during an outdoor concert, or rooting for the St. Louis Cardinals as they battle the Atlanta Braves, Washington University's graduating seniors will have many memories from Commencement Week 1990.

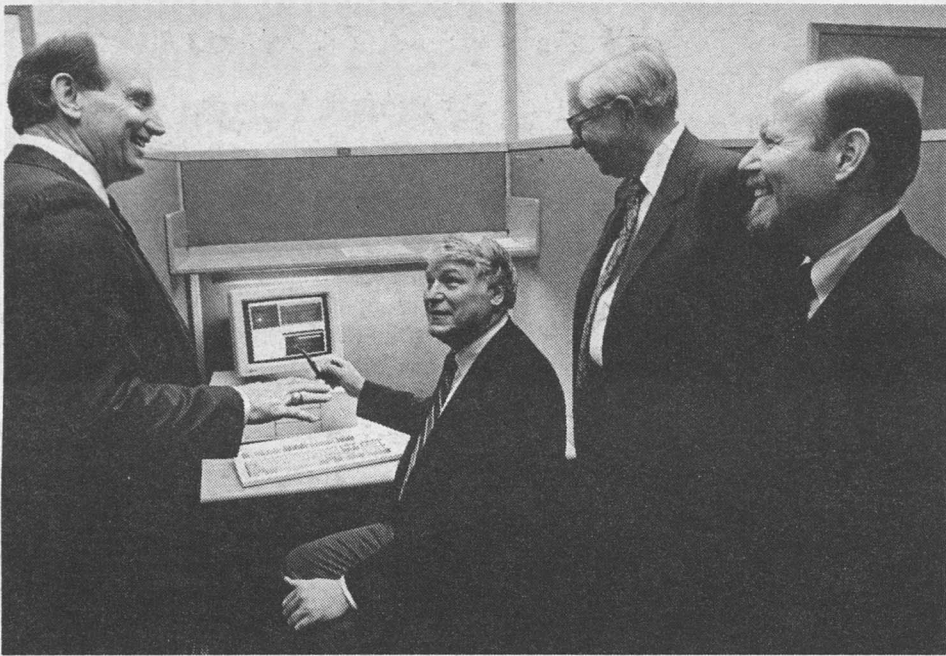
Scheduled for May 11-18, the week culminates with the University's 129th Commencement ceremony at 8:30 a.m. May 18 in Brookings Quadrangle. (See page 4 for calendar listing of events.)

"A lot of seniors are just waiting for Commencement Week to begin," says Katie deNourie, president of the senior class, who organized the week along with the other class officers. "I'm so excited. All the interest in the activities makes me really happy."

During the academic year, says deNourie, a psychology major with a minor in business, seniors are very busy with the rigors of college life. "Commencement Week is a time when we can forget about everyone else and really enjoy being together — enjoy being here in St. Louis and at Washington University."

Among the highlights of Commencement Week 1990 are a "Bagels and Bach" outdoor concert to be held at 4 p.m. May 17 at Mudd Field under a temporary band shell, where seniors, their parents, faculty and administrators will be able to socialize in an informal atmosphere amid the music provided by a local quartet. Enhancing the picnic-like atmosphere will be baskets of bagels, grapes and cheese

Continued on p. 2



Checking out the engineering school's new computer-aided design laboratory in Cupples II are (from left) Roger Dudley, regional sales vice president for AT&T Computer Systems, Richard A. Dammkoehler, professor of computer science, Dean James M. McKelvey, Ph.D., and Kenneth L. Jerina, D.Sc., professor of mechanical engineering.

Grant establishes computer laboratory

AT&T equipment is 'invaluable' to teach engineering concepts

Washington University has been awarded an equipment grant from AT&T valued at more than \$760,000.

The equipment and supporting software will be used by the School of Engineering and Applied Science to establish a computer-aided design laboratory in Cupples II. Students in computer science and electrical and mechanical engineering will benefit from the grant, although the laboratory also will be available to all students in the School of Engineering and Applied Science.

Washington University is one of 47 colleges and universities selected that submitted proposals during the past year. AT&T donated \$40 million to the 47 schools as part of its University Equipment Donation Program and has contributed more than \$200 million in equipment since the program's inception in 1984.

"These grants are awarded to colleges and universities which propose innovative applications in computing and networking in support of research or instruction," said John Rocco, branch manager for AT&T Computer Systems. "Washington University is on the leading edge of instruction in the application of computer science to engineering curricula."

James M. McKelvey, Ph.D., dean of the School of Engineering and Applied Science, hosted a breakfast meeting and program in Lopata Hall Gallery to announce the grant and provide a tour of the laboratory.

"We are pleased to have been selected by AT&T to receive this grant," said McKelvey. "AT&T is an acknowledged leader in data networking and their products will prove invaluable in furthering our work in this area."

Richard A. Dammkoehler, professor of computer science, designed the new laboratory, and he and Kenneth L. Jerina, D.Sc., professor of mechanical engineering, authored the grant proposal to AT&T.

AT&T donated 24 units of a microcomputer called the AT&T 6386, several printers, and two powerful multiprocessor computer-servers that manage the computer network.

"The 24 workstations in the laboratory give our students the chance to tackle design problems in a graphics-oriented environment that is becoming commonplace in industry today," said Jerina. "The computer workstation is replacing the drafting

table to improve engineering productivity and accuracy. In the classroom, the AT&T equipment is invaluable to teach engineering concepts that are considerably more complex than those that can be explained on a blackboard."

The AT&T equipment grant has provided the School of Engineering with a 30-fold increase in computing power, said Dammkoehler.

"The workstations represent a big boost to our educational efforts in computer-aided design," he said. "While most of the activity in the laboratory will involve design activities, we will also be able to do creative work on developing new software to support our instructional programs. The machines are versatile educational tools."

Send-off —

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along with tablecloths for seating.

In addition to giving parents the chance to spend a pleasant afternoon with their children and the University community, deNourie says the concert also will serve as a reception for seniors and their parents attending the Eliot Honors Convocation, which will be held at 2:30 p.m. that day at the Field House. This is the first year the Commencement Week Committee has planned an outdoor concert.

Other new activities scheduled for the week include an all-night party May 11 at Mudd Field that kicks off Commencement Week activities and a trip to Fairmount Park Race Track in Collinsville, Ill. There also will be a Gateway riverboat cruise along the Mississippi River, a rafting trip along the Meramec River, Senior Day at the Ballpark, a champagne brunch, a Phi Beta Kappa initiation ceremony and reception, and recognition ceremonies and Commencement receptions sponsored by the various schools.

The seniors will be able to pick up their caps and gowns from 8:30 a.m. to 5 p.m. May 15, 16 and 17 in Mallinckrodt Center's Lambert Lounge.

Besides deNourie, the senior class officers are: Doug Sanderson, vice president; Vern Engbar, treasurer; and Arlina Ahluwalia, secretary.

Commencement Week is co-sponsored by Student Union and the Senior Students Association. For more information on Commencement Week, call 889-5040.

Honorary degrees — *continued from p. 1*

Freeman, a graduate of Hampton Institute and the Howard University School of Law, left Washington, D.C., in 1981 and returned to her St. Louis law practice in the firm of Freeman, Whitfield, Montgomery, and Staples.

W. L. Hadley Griffin began his career in 1947 handling all of Wohl Shoe Co.'s legal matters. At the same time he absorbed the shoe business going on around him, did some retail selling and learned everything he could about management and finance. The result was a steady rise to the top of the corporate ladder. When Wohl, Brown Shoe and other member companies were reorganized as Brown Group Inc. in 1972, Griffin, a prime mover for diversification, was elected its first chairman of the board, president and chief executive officer.

In 1979 Griffin, who was elected a Washington University trustee in 1967, took on the responsibility of chairing the Commission on the Future of Washington University, a 269-member group that for 28 months engaged in a critical evaluation of the major units of the University. The commission's 1981 report provided the direction for the ALLIANCE FOR WASHINGTON UNIVERSITY. Griffin, a life trustee, served as chairman of the University's Board of Trustees during much of the ALLIANCE campaign. He earned his bachelor's degree from Williams College in 1940 and his law degree in 1947 from the Washington University School of Law.

Walter E. Massey graduated from Morehouse College in 1958 and went on to earn both a master's and a doctorate in physics in 1966 from Washington University. Massey's career has been marked by extraordinary accomplishments in science, education, administration and public service, culminating in his current position at the University of Chicago as professor of physics and vice president for research. He also is vice president for Argonne National Laboratory, one of the country's largest energy research laboratories. In 1988, Massey became the first African-American to be elected president of the largest and most respected science organization in the nation, the American Association for the Advancement of Science. He is vice president of the American Physical Society.

Among Massey's research interests are the many-body theories of quantum liquids and solids. He also has lectured on the teaching of science and mathematics and on the role of science and technology in a democratic society. He is a member of President George Bush's Council of Advisers on Science and Technology.

Beginning with the 1951 purchase of a scientific publishing company, British publisher **Robert Maxwell** has built a communications empire that encompasses newspaper, book and magazine publishing, as well as network and cable television operations, employing some 15,000 people in more than 16 countries. In 1984, Maxwell purchased the Mirror Group Newspapers (MGN) from Reed International. The MGN dailies, the British Daily Mirror and the Scottish Daily Record, sell some four million copies daily. The MGN Sunday papers, the British Sunday Mirror and The People and the Scottish Sunday Mail, sell some six and one-half million copies weekly. In 1988, Maxwell Communications, the main public company of the Maxwell group, became one of the top 10 integrated global communications information businesses.

From 1964 to 1970 Maxwell served in Parliament as the Labour

member for Buckingham. In the House of Commons, he chaired a committee to advise the government on ways to use science to achieve national policy objectives. He was able to put through a bill that became the Clean Air Act, subsequently serving as a model for similar bills in more than 100 countries. In 1987, Maxwell was named to the U.S. Information Agency's International Council.

Architect **Gyo Obata**, co-founder of Hellmuth, Obata & Kassabaum (HOK), advocates "providing beauty that works." Obata's genius lies in being able to understand, formulate and respond to both pragmatic and aesthetic issues and to synthesize the two in a creative solution, under cost and on time. The renovation of the century-old Union Station, for example, has earned praise both as an aesthetic achievement and as a key factor in St. Louis' rejuvenation. Of the Obata-designed National Air and Space Museum in Washington, D.C., the most-visited museum in the world, Smithsonian magazine wrote, "It can possibly be called the finest building of its kind ever erected. It is pretty safe to call it unique. And there is no quibble with calling it extraordinary."

Obata graduated from Washington University with a bachelor's degree in architecture in 1945. He then studied under the master architect Eliel Saarinen at the Cranbrook Academy of Art in Michigan, where Obata received a master's in architecture and urban design in 1946. In 1951 he joined the St. Louis firm Hellmuth, Yamasaki and Leinweber. Four years later that firm was organized as HOK, which now has 10 offices worldwide, including London, Hong Kong and San Francisco, Obata's birthplace.



Zane E. Barnes



Bernard Becker



Frankie Muse Freeman



W. L. Hadley Griffin



Walter E. Massey



Robert Maxwell



Gyo Obata

NOTABLES

Judy M. Destouet, M.D., associate professor of radiology and head of mammography at the Mallinckrodt Institute of Radiology, has been asked to join the St. Louis Regional Cancer Control Coalition, a newly formed division of the Missouri Department of Health. Funded by a grant from the National Cancer Institute, the coalition will address three major issues of service and referral, public education and prevention, and legislation and tobacco issues, while developing priority projects on cancer control for the economically disadvantaged in the St. Louis community.

C. William Emory, Ph.D., associate dean for the Executive M.B.A. program and professor of marketing, has been elected to the Japan-American Society's board of directors. The society sponsors lectures and activities to strengthen relationships between Japanese and Americans. Members include Japanese and American business persons.

James McGarrell, professor of fine arts, was the subject of a one-person exhibition of paintings in March at the Witherspoon Museum at the University of North Carolina at Greensboro.

Laurence H. Meyer, Ph.D., professor of economics, has been elected first vice president of the Midwest Economics Association.

William D. Middleton, M.D., professor of radiology, and **Daniel Picus**, M.D., associate professor of radiology, received the 1989 Editor's Recognition Award with Special Distinction from Radiology, a leading radiological scientific journal.

Himadri Pakrasi, Ph.D., assistant professor of biology, was an invited speaker at the International Meeting on Plant Stress, organized by the United National International Centre for Genetic Engineering and Biotechnology, New Delhi, India.

Bixio Rimoldi, D.Sc., visiting professor of electrical engineering, wrote a paper titled "A Decomposition Approach to CPM" that was selected by the Information Theory Society of the

IEEE as one of its final nine papers in the *IEEE Transactions on Information Theory* for the calendar years 1987 and 1988. The society also nominated this paper for the Browder J. Thompson Prize, which recognizes the best original paper published in an IEEE publication during the preceding year by an author under the age of 30, and the Alfred Noble Intersociety Award, which recognizes the best original paper published in an AIME, ASCE, ASME or IEEE publication during the preceding calendar year by an author under the age of 31.

Marc Saperstein, Ph.D., Gloria M. Goldstein Professor of Jewish History and Thought, has won the National Jewish Book Award and the *Present Tense* Joel H. Cavior Literary Award, both in the category of Jewish thought, for his book *Jewish Preaching 1200-1800*, published by Yale University Press.

Alan Templeton, Ph.D., professor of biology, who is a new member of Missouri's Biodiversity Task Force, recently received the Edward Bean Award of the American Association of Zoological Parks and Aquaria for his work on preservation of several wild cattle species at the St. Louis Zoo.

Charles M. Wolfe, Ph.D., Samuel C. Sachs Professor of electrical engineering, and Gregory E. Stillman, professor of electrical engineering at the University of Illinois, were selected by the IEEE board of directors as co-recipients of the 1990 Jack A. Morton Award "for the growth and characterization of ultra-high-purity gallium arsenide and related compounds."

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 p72245SS at WUVMC. Please include a phone number.

Students win prizes for book collections

Elizabeth A. Ambrose, a doctoral candidate in Germanic languages and literatures at Washington University, and Adrian Seeser, a sophomore majoring in history and architecture, are the first-place winners of the third annual Carl Neureuther Student Book Collection Competition sponsored by the Olin Library System. The students won in the graduate and undergraduate categories respectively and received a first-place prize of \$750.

Ambrose's book collection is titled "Archetypal Perspectives on Myth and Mysticism." Seeser's collection is on "Books of the Beatle Phenomena."

The second-place winner in the graduate category was Rebecca Haidt, a doctoral candidate in Spanish and comparative literature, for her collection titled "Feminism and Feminist/Women's Literature." Cinda Ogden, a senior majoring in Russian, won the second-place title in the undergraduate category for her collection titled "Concerning Russian Literature and Life: Past and Present." The students received a second-place prize of \$500.

The late Carl Neureuther donated the funds in 1987 to support the annual student book collection contest to encourage and stimulate good reading by Washington students and to promote the building of

personal libraries. The competition is part of a \$1 million commitment made by Neureuther to the libraries.

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Assistant editor: Andrew Cox, 889-5235, Campus Box 1070; P72245AC at WUVMC
Editor, Medical Record: Joni Westerhouse, 362-8257, Medical School Campus Box 8065; C72245JW at WUVMC
Contributing writers: Debby Aronson, Debra Bernardo, Joyce Bono, Kleila Carlson, Gerry Everding, Tony Fitzpatrick, Fran Hooker, Steve Kohler and Carolyn Sanford
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Law school names Levin associate dean

Ronald M. Levin, J.D., professor of law, has been appointed associate dean of the School of Law effective July 1, according to Dean Dorsey D. Ellis Jr., J.D.

"Ron Levin is an outstanding teacher and scholar," says Ellis. "He has achieved national recognition as an authority on administrative law and is highly regarded by his students. His leadership of the University's faculty Senate Council has commanded the respect of faculty and University officials. We are very fortunate to have him as associate dean of the School of Law."

In addition to acting on behalf of the dean in his absence, Levin's responsibilities will include developing



Ronald M. Levin

curriculum, working with law school faculty on teaching and scholarship, arranging for guest lecturers, conferences and faculty forums, and working with various law school and University committees and visiting, summer and adjunct professors.

A member of the Washington law faculty since 1979, Levin has served for the past two years as chair of the Washington University Senate Council.

When Levin was elected in 1986 to a three-year term on the Council of the American Bar Association's Section of Administrative Law, he was one of the youngest persons ever elected to the section.

Levin has a bachelor's degree in political science from Yale University, where he graduated magna cum laude in 1972. He received a law degree from the University of Chicago in 1975 and was article and book review editor for the University of Chicago Law Review.

College Bowl team competes nationally; 13th Midwest regional win in 14 years

For the 13th time in 14 years, a team from Washington University won the Midwest Regional College Bowl Tournament and competed in the College Bowl National Championship Tournament. This year's national tournament was held April 27-29 at the University of Minnesota in Minneapolis.

In College Bowl, billed as "the varsity sport of the mind," a quiz game format is used to recognize students' intellectual achievement and to help them learn the value of group participation. To receive points, students must correctly answer questions on a variety of topics, including history, literature, current events, science and art.

The members of the Washington team, all juniors at the time they competed at the nationals, are: Michael Gehm of Huntsville, Ala., who served as captain; Bob Carrico of Mayfield, Ky.; Shane Bradley of Paducah, Ky.; Brian Christenson of Las Vegas, Nev.; and Thomas Seigel of Foristell, Mo. David Lundgren, a 1989 graduate of Washington's law school, coached the team. Virginia Thomas, director of student activities, served as the team's adviser.

In the first round of the national

tournament, the Washington team lost its first game against the Massachusetts Institute of Technology (MIT). The team played a second game against Florida State University and was defeated by a score of 150 to 125. The results of the close match were decided during the last minute of the game.

The University of Chicago won the national tournament, followed by MIT and third-place George Washington University. A total of 16 schools, including Cornell University, University of Pennsylvania and the University of Minnesota, competed at the national competition. The matches were not taped for television, as they were last year by the Disney Channel.

In the Midwest Regional College Bowl Tournament, held March 2-4 at Central Missouri State University in Warrensburg, Washington team members won all four matches they played. Some 16 schools competed in the Midwest regionals, which included schools from Missouri, Oklahoma, Kansas and Nebraska.

The Washington team won the University's intramural college bowl competition held last fall. A total of 20 teams participated in that competition.

Earthquake — continued from p. 1

Sven Thomasen, a senior consultant with Wiss, Janney, Elstner, Inc. of Oakland, Calif., examined more than 30 damaged buildings after the Loma Prieta earthquake, including about 15 retrofitted structures. More than 2,000 buildings suffered major damage in the quake that measured 7.1 on the Richter scale and was centered approximately 60 miles from the Bay area. The quake lasted between 6 to 7 seconds.

"The performance of retrofitted structures I examined was mixed," says Thomasen, who will speak May 16 from 1:30 to 5 p.m. "Some structures performed admirably, others not quite that well. What is clear from this experience and these evaluations is that any kind of retrofitting must be done with a great amount of care. The dynamics of the structure must be carefully evaluated before any retrofit is made. The lesson of Loma Prieta is clear to residents of St. Louis: A certain amount of safety can be achieved for a minimum cost. If you don't have that minimum safety, loss of life and

damage to buildings can be astronomical."

Among the topics to be discussed at the short course are the retrofitting of bridges, steel, masonry and concrete structures; evaluation of existing structures; emergency repair procedures; nondestructive testing; base isolation, or the replacement of existing foundations with more resilient material, such as rubber; and the performance of retrofitted buildings during the Loma Prieta earthquake.

The conference is sponsored by the Department of Civil Engineering in cooperation with Washington University's Construction Materials and Management Center and School of Technology and Information Management; the American Society of Civil Engineers, St. Louis Section; and the Earthquake Engineering Research Institute.

There is a registration fee. To register, call Donna Skaggs at 889-4556. For more information on the short course and the participants, contact Gould at 889-6303.

CALENDAR

May 10-19

LECTURES

Thursday, May 10

9:30 a.m. School of Medicine Annual Carl G. Harford Visiting Professor of Infectious Diseases Lecture. "Prospects for Prevention of HIV Infection With Vaccine," Robert Belshe, director of Division of Infectious Diseases, St. Louis U. School of Medicine. Clopton Amphitheatre, 4950 Audubon Ave.

Noon. Dept. of Genetics Seminar. "Genetic and Molecular Mechanisms for Adapting to a Changing Environment," Dennis Powers, Hopkins Marine Station, Stanford U. Room 816 McDonnell Medical Sciences Bldg.

4 p.m. Central Institute for the Deaf Seminar. "Transplantation of Photoreceptors to the Retina: Anatomy, Immunohistochemistry and Physiology," Martin S. Silverman, WU assoc. research scientist, Central Institute for the Deaf. 2nd Floor Aud., Clinics and Research Bldg., 909 S. Taylor Ave.

4 p.m. School of Medicine 13th Annual Oliver H. Lowry Lecture in Pharmacology. "Atriopeptin: Discoveries and Implications," Philip Needleman, vice president of research and development, Monsanto Research Corp. Carl V. Moore Aud., 660 S. Euclid Ave.

4:30 p.m. Dept. of Mathematics Colloquium. "Foliations Whose Leaves Are Minimal Surfaces — A Survey," Paul Schweitzer, Dept. of Mathematics, Boston College. Room 199 Cupples I. (Refreshments will be served at 4 p.m. in Room 203 Cupples I.)

Friday, May 11

Noon. Dept. of Cell Biology and Physiology Seminar. "T Lymphocyte Recognition of Viral Glycoproteins: Immunology and Cell Biology," Thomas J. Braciale, WU prof. of pathology. Cell Biology Library, Room 4914, South Bldg.

4:30 p.m. Dept. of Mathematics Colloquium. "How Do You Reduce Analytic Deformation Theory to Algebraic Deformation Theory," Samuel Schack, Dept. of Mathematics, SUNY at Buffalo. Room 199 Cupples I. (Refreshments will be served at 4 p.m. in Room 203 Cupples I.)

Thursday, May 17

2:30 p.m. Eliot Honors Convocation for honor students, their parents and guests. Honors address by Walter E. Massey, U. of Chicago prof. of physics and vice president for research and for Argonne National Laboratory. Student address by John Alan Girotto, senior in College of Arts and Sciences. Field House.

4 p.m. Central Institute for the Deaf Seminar. "Hearing Loss From Intermittent Exposure to Noise," William W. Clark, WU research assoc., Central Institute for the Deaf. 2nd Floor Aud., Clinics and Research Bldg., 909 S. Taylor Ave.

8 p.m. School of Fine Arts Lecture and Panel Discussion. "Free Speech, Government and Arts," keynote lecture by Joyce Fernandes, director of exhibits and events at The School of the Art Institute of Chicago. A panel discussion will follow featuring Fernandes; Jules Gerard, WU professor of law; Alan J. Howard, St. Louis U. professor of law; and Larry Katzenstein, partner in the law firm The Stolar Partnership. Steinberg Hall Aud. For more info., call 889-5490.

Friday, May 18

Noon. Dept. of Cell Biology and Physiology Seminar. "Studies on the Sorting and Transport of Axonal Membranes," Richard Fine, Dept. of Biochemistry and Neurology, Boston U. School of Medicine. Cell Biology Library, Room 4914, South Bldg.

MUSIC

Saturday, May 12

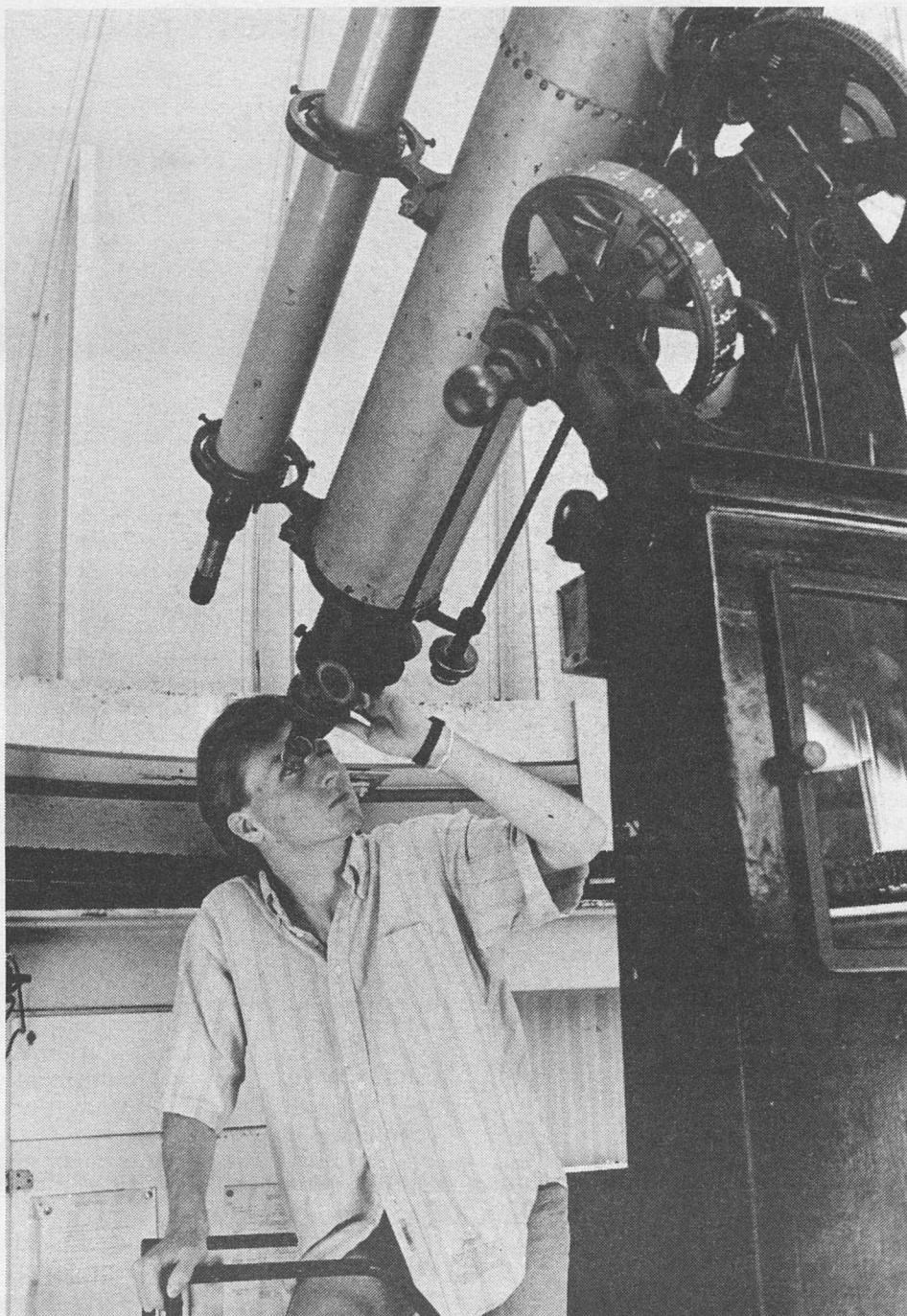
7:30 p.m. Dept. of Music Presents an Indian Vocal Concert, featuring Karnatak style singer T.V. Sankaranarayanan. May Aud., Simon Hall. Cost: \$15 for general public; \$7.50 for students, Channel 9 membership card holders and WU faculty and staff. For more info., call 889-5574.

Monday, May 14

8 p.m. Dept. of Music Presents a Voice Recital by Soprano Judith Cline, a WU Dept. of Music graduate student. Steinberg Hall Aud. For more info., call 889-5574.

Saturday, May 19

7:30 p.m. Dept. of Music Presents an Indian Flute Recital, featuring the Hindustani style flutist Ronumajumdar. May Aud., Simon Hall. Cost: \$15 for general public; \$7.50 for students, Channel 9 membership card holders and WU faculty and staff. For more info., call 889-5574.



Summer stargazing: Chris Stockdale, a sophomore physics major, assists visitors at Washington University's observatory on the roof of Crow Hall. Beginning May 11, the observatory will be open to the public on reasonably clear Friday evenings for viewing the moon, stars and planets through the historic telescope, with lenses dating to 1857. Viewing hours are from 8:30 to 10 p.m. For more information, call 889-6276 during the day or 889-OBSV on Friday nights.

EXHIBITIONS

"B.F.A. Exhibition," featuring works by seniors in the University's School of Fine Arts. Through May 20. Gallery of Art, upper gallery, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Photography Exhibition by R. John Bache." Show features 28 prints shot with a WideLux camera, which mechanically scans 140 degrees, creating an expansive image. Bache teaches photography at California Institute of Arts. Through May 18. Gallery 721, Lewis Center, 721 Kingsland Ave. For more info., call 725-7014.

"Core Exhibition," featuring works by freshman and sophomores in the University's School of Fine Arts. Through July 20. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4643.

"Washington University Fine Arts Collection." Collection includes European and American art from the post-World War II era, as well as ancient Greek vases. Gallery of Art, lower gallery, Steinberg Hall. Through May 31. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

MISCELLANY

Wednesday, May 9

4 p.m. Faculty Senate Meeting. Tentative agenda includes a report on the Research Integrity Guidelines and a proposed amendment of the By-laws of the senate. Meeting is open to all voting members of the schools of the University, and the director of libraries and the University librarian. May Aud., Simon Hall.

Monday, May 14

Noon. WU Society of Professors Emeriti Luncheon Meeting. "Medical Secrets of an Amazonian Rain Forest Unfolding," Walter Lewis, WU prof. of biology. Spink Pavilion, Missouri Botanical Garden. Cost: \$15.50. For reservations or more info., call 889-5175.

Commencement week

Friday, May 11

10 p.m. Slumber Party, senior week kickoff. Mudd Field. (Rain location: Gargoyle, Mallinckrodt Center.)

Saturday, May 12

7 p.m. "Bet Your Bottom Dollar," night at Fairmount Park Race Track, Collinsville, Ill. Buses depart from Brookings Hall.

Sunday, May 13

11:30 a.m.-1 p.m. Senior Champagne Brunch. Sponsored by the Alumni Board of Governors and Student-Alumni Relations Committee. La Cuisine, Wohl Center.

1:15 p.m. Senior Day at the Ballpark. St. Louis Cardinals vs. Atlanta Braves. Buses depart to Busch Stadium from Brookings Hall.

Monday, May 14

8 a.m. "Float Your Boat," rafting on the Meramec River. Buses depart from Brookings Hall.

Tuesday, May 15

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge, Mallinckrodt Center.

7:30 p.m. "Reflections in the Waves," Gateway riverboat cruise on the Mississippi. Buses depart from Brookings Hall.

Wednesday, May 16

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge, Mallinckrodt Center.

7:30 p.m. University College Presentation Ceremony. Simon Hall Aud. Reception immediately following in Simon Hall Courtyard.

8 p.m. School of Technology and Information Management Recognition Ceremony. Edison Theatre. Reception immediately following in Bowles Plaza. (Rain location: Schoenberg Gallery.)

9 p.m. "Senior Night on the Town," evening at the Biergarten, Union Station. Buses depart from Brookings Hall.

Thursday, May 17

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge, Mallinckrodt Center.

10 a.m. Phi Beta Kappa Reception and Initiation Ceremony. Steinberg Hall Aud.

2:30 p.m. Eliot Honors Convocation for honor students, their parents and guests. Honors address by Walter E. Massey, U. of Chicago prof. of physics and vice president for research and for Argonne National Laboratory. Student address: "What Next?" John Alan Girotto, senior English major. Field House.

4-6 p.m. "Bagles and Bach," open-air concert. Mudd Field. (Rain location: Gargoyle.)

5 p.m. School of Engineering and Applied Science Recognition Ceremony. Field House.

8 p.m. College of Arts and Sciences Recognition Ceremony and Reception. Brookings Quadrangle. (Rain location: Field House.)

Friday, May 18

8:30 a.m. Commencement in Brookings Quadrangle. (Rain location: 10 a.m. at The Arena, 5700 Oakland Ave.) Immediately following the Commencement exercises, the deans of the various divisions will hold a series of receptions where diplomas will be individually distributed. Refreshments will be available for members of the graduating class, their families and friends. Reception locations:

College of Arts and Sciences: north side of Graham Chapel. (Rain location: Holmes Lounge.) **Graduate School of Arts and Sciences:** hooding and recognition ceremony in Edison Theatre; reception in Gallery and Gargoyle, lower level, Mallinckrodt Center.

University College: Women's Bldg. Lounge. **School of Engineering and Applied Science:** south side of Lopata Hall. (Rain location: Lopata Gallery.) **School of Technology and Information Management:** south patio of Prince Hall.

(Rain location: Umrath Lounge.) **School of Architecture:** diploma ceremony at Brookings approach, north of Givens Hall; reception in Givens Hall. **John M. Olin School of Business:** diploma ceremony in Field House; reception in Simon Hall. **School of Fine Arts:** Steinberg Hall Aud. **George Warren Brown School of Social Work:** diploma ceremony in Graham Chapel; reception on east lawn of Brown Hall. (Rain location: Brown Hall Lounge.) **School of Law:** diploma ceremony in Graham Chapel; reception in Mudd Law Bldg. informal lounge. **School of Dental Medicine:** Breckenridge Frontenac Hotel. **Program in Occupational Therapy:** Chip Room, Carpenters Union Bldg. **Health Administration Program:** diploma ceremony in Moore Aud.; reception in Olin Hall Penthouse, Medical School Campus. **School of Medicine:** Clarion Hotel.

Tuesday, May 15

5:30-7:30 p.m. WU Center for Health Behavior Research Weight-Loss Group for women who have problems associated with binge eating, directed by Linda Krug, Ph.D. Group will meet on Tuesdays. The last session will be on July 10. Room 115 Eads Hall. Cost: \$180. For more info., call 361-4808.

Wednesday, May 16

8 a.m.-5 p.m. School of Engineering and Applied Science Seismic Retrofit Conference, designed to examine how structures can be strengthened to withstand an earthquake. (Also May 17, same time, and May 18, 8 a.m.-noon.) St. Louis Airport Hilton. Cost: \$595. To register, call Donna Skaggs at 889-4556. For more info., call 889-6303.

2-3 p.m. Mallinckrodt Institute of Radiology and Barnard Free Skin and Cancer Hospital Sponsors V.I.P. Support Group for families of cancer patients. Group meets every Wednesday to share common concerns, feelings and questions that can result from the diagnosis of cancer. Cancer Info. Center, 1st fl. Barnes Hospital. For more info., call 362-7844.

Friday, May 18

8:30 a.m. Washington University 129th Commencement. Ceremony begins with traditional procession to Brookings Quadrangle, followed by Commencement address by award-winning poet Mona Van Duyn. (In case of rain, the event will be held at 10 a.m. at The Arena, 5700 Oakland Ave.)

Calendar Deadline

The deadline to submit items for May 17-26 calendar of the Washington University Record is May 11. 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 Andrew Cox, calendar editor, Box 1070, or by electronic mail to p72245AC at WUVMC.