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# Washington University Record, November 1, 1990

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**Moving sculpture:** Metalsmith John Murray restores "Five Rudders," a sculpture by Alexander Calder (1898-1976), which recently was moved from the Gallery of Art's deck to a more visible location directly in front of the Steinberg Hall gallery entrance.

## Burgeoning mathematical theory

### New 'wave' researchers awarded grants

Three Washington University mathematicians have received a grant of \$600,000 for three years to research a branch of mathematics that is at the crest of new waves in high technology.

Mathematics professors Guido Weiss, Ph.D., Richard H. Rochberg, Ph.D., and Mitchell H. Taibleson, Ph.D., have received a grant from the U.S. Department of Defense (DOD) totaling approximately \$600,000 for three years to study wavelets, a burgeoning mathematical theory that allows scientists to break down complicated data into their most fundamental pieces, reassemble them and then transmit the data, or "signals," without losing any of the important details.

The three mathematicians also have received a \$200,000 grant for three years from the National Science Foundation in an arrangement called a "group grant." These grants are awarded to encourage researchers with similar interests to do collaborative work. Weiss, Rochberg and Taibleson have a long history of working together in the field of harmonic analysis, which, among other features, allows the application of mathematics to the analysis of signals.

The mathematicians will collaborate with the Washington University departments of computer science and electrical engineering as well as with mathematicians at the University of South Carolina, a subcontractor in the DOD grant.

A \$600,000 gift from the Southwestern Bell Foundation announced earlier in the year provided the Washington University scientists opportunities to conduct seminars, develop interdepartmental research and helped attract visiting professors throughout the year.

"The grants allow more exploration into some very vital research at Washington University," said Chancellor William H. Danforth, who announced the grant. "We're pleased to receive the grants and excited that this research involves not only different departments at Washington University but scientists from other institutions."

Wavelets make it possible to capture details in key parts of such

signals as sound or visual data. In applying wavelets to such technologies as the picturephone and teleconferencing, pictures may become more distinct. An example of this would be to use a picture of a person on a screen, focus on the corners of this person's mouth and, through wavelet mathematics, improve the detail of the corners while reducing less important, redundant information, like the background. Wavelets also make it possible to reconstruct the background.

Standard telephone lines presently can't carry enough electronic information to transmit both voice and quality video signals simultaneously. Wavelets, however, may be able to compress this information better than other techniques, making voice and image clear enough that a modern-day picturephone would allow a viewer to recognize and understand even subtle nuances of facial expression.

In conjunction with increasingly more powerful computers, wavelet theory is vital in the development of

sound and imaging technologies such as compact discs, speech devices, movies, photographs, videos and teleconferencing. Researchers can also use the theory in analyzing seismic motions beneath the ground to determine the presence of oil; in graphing fluctuations of trading markets; or in interpreting climatological data.

One of the more intriguing potential applications of wavelets is in the medical field. The theory may allow analysts to develop more exact physiological information from the medical imaging technologies of computer-aided tomography (CAT) scan and nuclear magnetic resonance.

"We're excited to be awarded the grants and look forward to the coming years' research," said Weiss. "The money will be used for the purchase of computer hardware, the hiring of postdoctoral students, conducting seminars and bringing visiting scientists to work with us here. Of all the benefits from the grants, we're per-

*Continued on p. 2*

### Holocaust expert gives memorial lecture

A co-author of the 1990 book *The Genocidal Mentality: Nazi Holocaust and Nuclear Threat* will give the Holocaust Memorial Lecture at 11 a.m. on Wednesday, Nov. 7, in Graham Chapel.

Robert Jay Lifton will discuss "Beyond Genocide — Learning From the Nazi Doctors" during the lecture, which is free and open to the public.

Lifton is Distinguished Professor of Psychiatry and Psychology at the City University of New York's John Jay College of Criminal Justice, Graduate School and University Center, and at Mount Sinai Medical Center. He also directs the Center on Violence and Human Survival at John Jay College.

He has played an active part in developing the field of psychohistory, which studies the relationship between individual psychology and historical change. Lifton is particularly interested in the problems surrounding the extreme historical situations of the 20th century: the Holocaust, the Chinese Cultural Revolution and the

bombing of Hiroshima.

Lifton, who since 1977 has been researching the medical behavior at Auschwitz and of Nazi doctors in general, also wrote *The Nazi Doctors: Medical Killing and the Psychology of Genocide*, which was published in 1986. It won both the 1987 National Jewish Book Award-Holocaust and the 1987 Los Angeles Times Book Prize for history.

He has received numerous awards for his work including the 1984 Gandhi Peace Prize and the 1986 Holocaust Memorial Award. He is a founding member of International Physicians for the Prevention of Nuclear War, which won the 1986 Nobel Peace Prize.

The lecture is sponsored by the Assembly Series, Department of History, Humanities Program in Medicine, Program in Jewish and Near Eastern Studies, Religious Studies Program and Student Union.

For more information on the lecture, call 889-4620.

### Justice O'Connor will address campus community

Sandra Day O'Connor, Associate Justice of the Supreme Court, will keynote the 1990 Mr. and Mrs. Spencer T. Olin Conference at 11 a.m. on Nov. 14 in Graham Chapel. The lecture is only open to Olin Conference guests and members of the campus community.

Tickets are necessary for admission to the lecture and can be picked up in person at the places listed below. A current Washington University identification card is required.

- Students (all undergraduate and graduate divisions except the School of Law) can pick up tickets from 2-6 p.m. on Nov. 8 in Rooms 303-304 Mallinckrodt Center.

- Faculty and staff (except School of Law) from 10 a.m.-4 p.m. on Nov. 8 from Trudi Spigel, Room 133 Alumni House.

- Law school faculty and students on Nov. 8 from Debra Carlson Wood in Room 310 Mudd Hall.

O'Connor, the first woman to serve on the U.S. Supreme Court, previously sat on the Arizona Court of Appeals and the Maricopa County Superior Court in Phoenix, Ariz. In addition to her judicial experience, O'Connor served on the Arizona state legislature as a senator for two terms and was elected senate majority leader in 1972.



Sandra Day O'Connor

The Olin conference, titled "Women in Power: Is the View Different?" features a panel discussion on "Views From the Top: An Inquiry Into the Experiences of Women as Decision Makers" at 2:30 p.m. on Nov. 14 in the Women's Building lounge. A reception honoring the panel participants will be held from 4:30 to 5:30 p.m. in the lounge. The panel and reception are free and open to the public.

Moderated by Susan Appleton, J.D., professor at the School of Law, the panel features Linda Fabel, regional manager of IBM Corp.'s General and Public Sectors Region in St. Louis; Linda Smircich, a professor of organizational studies at the University of Massachusetts' School of Management; The Rev. Joan Salmon-Campbell, minister at St. Paul's Presbyterian Church in Kansas City, Mo.; and alumna Adele Konkell Anderson, a Pueblo County judge in Colorado's 10th Judicial District.

The Olin conference honors the University's Olin Fellows. The fellowship program was established by The Monticello College Foundation to bring outstanding women to the University to pursue careers in higher education or the professions.

For more information on O'Connor's lecture, call 889-4620; for more information on the panel discussion, call 889-6848.

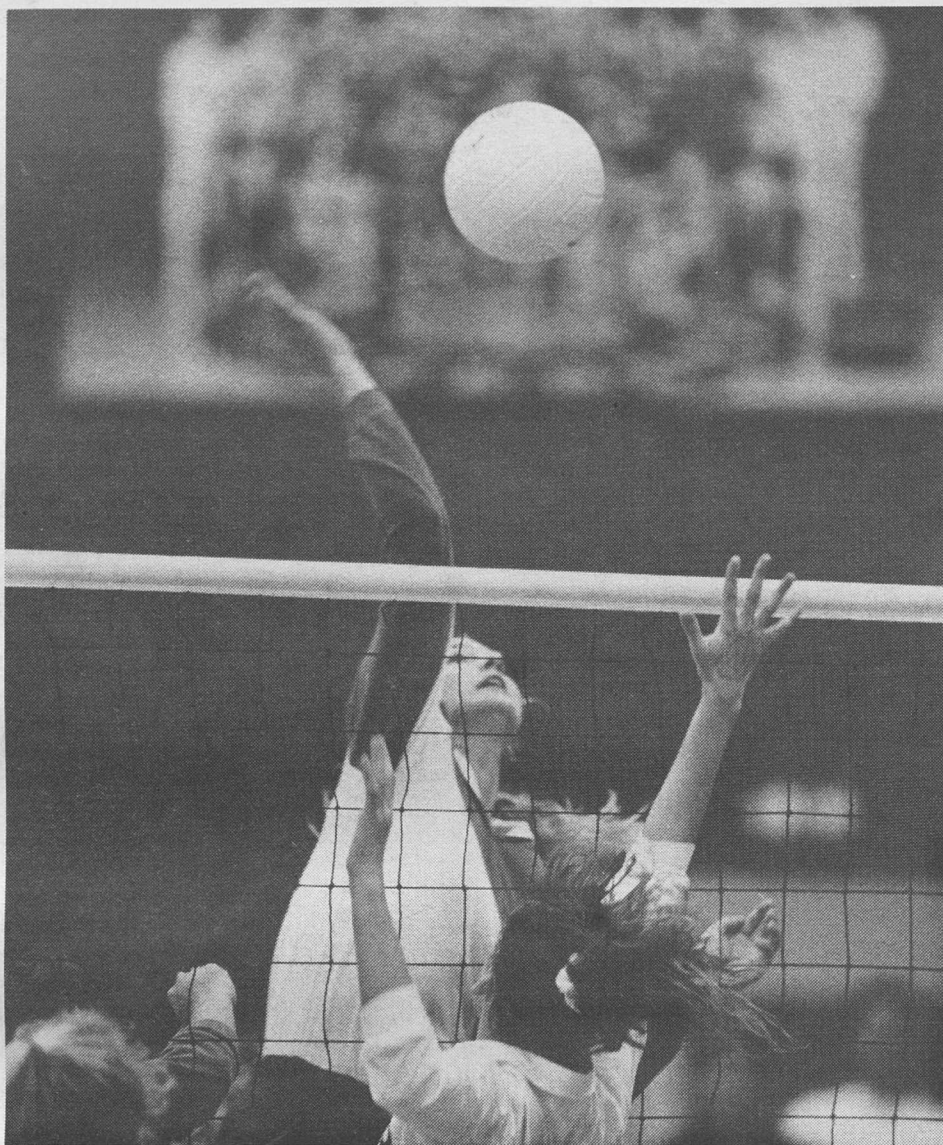
### Inside: MEDICAL RECORD

- **Researchers eavesdrop on the brain as it processes information. Page 4**

- **One pill a day is easier to swallow than two or more. Page 5**

- **Lipid Center named cholesterol disorder training site for physicians. Page 6**





**On top:** Sophomore middle blocker Lisa Becker was named to the six-player all-tournament team at the Washington University National Invitational, held Oct. 19-20 in the Field House. The Bears placed first in the tournament, which featured five of the top 12 teams in the latest Division III national poll. This past weekend, Becker earned second-team All-Association honors at the University Athletic Association Championships in Atlanta, Ga. The Bears are currently 25-3 and ranked first in the nation among all NCAA Division III teams.

## Award-winning architect to lecture

Antoine Predock, a New Mexico-based architect, will deliver the Charles Eames Memorial Lecture, titled "Landscape Aphorisms," at 8 p.m. Monday, Nov. 5, in Steinberg Hall auditorium.

The Eames lecture is sponsored by the Herman Miller Co. and named for renowned architect Charles Eames, who attended the School of Architecture from 1925-1927.

Predock has received numerous awards for his designs. This year he received the American Institute of Architects (AIA) National Honor award for his design of the performing arts center at Arizona State University. He also won the same award in 1987 and the Progressive Architecture Design

Award in 1984, 1985 and 1990.

Predock's recent projects include the design of a resort complex outside of Paris. In the United States, he is one of several architects who designed the Disney Studio resort in Orlando, Fla.

The award-winning architect is widely known for his environmental approach to architecture. His buildings merge visually with their surroundings, and he incorporates the local climate as a positive influence in his designs.

The Monday Night Lecture Series is sponsored by the School of Architecture with support from Student Union and HOK Architects. For more information, call 889-6200.

## Diversity in the workforce is seminar topic

"The Nineties: Managing Diversity—The Changing Nature of the Workforce and Its Impact on You," is the topic of a management seminar to be held from 9 a.m. to 4:30 p.m. on Saturday, Nov. 10, at the John M. Olin School of Business in Simon Hall. The seminar is open to the public at a fee of \$15 for students and \$25 for corporate attendees, which includes continental breakfast and a box lunch. To register, call 889-6320 or 726-4212.

The seminar focuses on the professional development of minorities in corporations and is sponsored by two student organizations: the Business Minority Council and Women in Management.

By the year 2000, it is estimated that the U.S. workforce no longer will be predominantly white and male, but increasingly female and culturally and ethnically diverse.

Keynote speaker Katharine Esty, Ph.D., of Goodmeasure/Ibis Consulting Groups, Cambridge, Mass., will

address "Managing Diversity for the Corporation." Other speakers and topics include:

- Ronald Thompson, chairman of the board and CEO, The GR Group Inc.; "Managing Diversity as a Minority Entrepreneur."

- Arnold Donald, director, Lawn and Garden Business Unit, Monsanto Agricultural Co.; "Monsanto's Management Diversity Program."

- Charlene Gordon, director, City Living Program, City of St. Louis; "Managing Self Confidence for Minority Success in the Corporation."

- Jim Estrada, manager, National Hispanic Markets, Anheuser-Busch; "Marketing to the Minority Market Segment."

- Wyndel Hill, president, Wyndel Hill and Associates; "Managing Ethnic/Cultural Differences."

- Glenn Dalton, director, Human Resources, Grocery Products Division, Ralston Purina; "Legal and Human Resources Issues in Managing Diversity."

## New faculty are introduced

Beginning with this issue, the Record will feature a weekly series profiling new faculty on the Hilltop and Medical campuses.

**William A. Barnett, Ph.D.**, professor of economics, comes to the University from the University of Texas at Austin, where he was a professor of economics. He has been a visiting professor at Johns Hopkins University, the Université de Aix-en-Provence in France, Monash University in Australia and Duke University. He received a bachelor's degree in mechanical engineering with a minor in industrial management in 1963 from the Massachusetts Institute of Technology, a master's degree in business administration in 1965 from the University of California at Berkeley, and a master's degree in economics in 1970 and a doctorate in statistics in 1974, both from Carnegie Mellon University. His research interests include empirical and theoretical consumer demand modeling, applied and theoretical econometrics, monetary aggregation theory and Bayesian and sampling theoretic inference in infinite dimensional parameter spaces.

**Kathryn Kramer**, assistant professor of English, comes to Washington from the University of Cincinnati, where she was an assistant professor of English and comparative literature. She received a bachelor's

degree in arts and humanities from Marlboro College in 1975 and a master's degree in writing from Johns Hopkins University in 1976. She is the author of *A Handbook for Visitors From Outer Space*, a novel published by Alfred A. Knopf Inc. in 1984 and translated for Dutch and Swedish audiences, as well as published for the British. Her fictional novel titled "Rattlesnake Farming," which focuses on rattlesnakes, venom and Christianity, will be published by Knopf in 1992.

**John Stewart**, associate professor of music, comes to the University from Mount Holyoke College, where he was a lecturer in voice. He also has been a lecturer in voice for a private voice studio in New York City and a performance coach for the Banff Centre for the Arts in Western Canada. A tenor, he has performed leading roles with opera companies throughout the world, including the New York City Opera, the Metropolitan Opera and companies in St. Louis, Toronto, Cincinnati, Amsterdam, San Diego, Frankfurt and Brussels. He also has made recordings and performed for television productions. He has a bachelor's degree from Yale University in composition and theory and a master's degree in composition and theory from Brown University. He also has pursued graduate studies in voice at the New England Conservatory.

## Researchers —

*continued from p. 1*

haps most excited by the opportunities we will have in bringing people to Washington University to learn and share expertise in this intriguing field."

According to Ronald Coifman, Ph.D., professor of mathematics at Yale University, Washington University is one of the top three institutions in the nation working on wavelets. Coifman, Victor Wickerhauser, Ph.D., professor of mathematics at the University of Georgia, and French mathematician Yves Meyer, Ph.D., of the University of Paris, pioneered the concept of wavelet "packets," which involve the use of new algorithms to quickly and efficiently transmit digital signals using the least amount of digits.

"The grant affirms Washington University's high status in wavelet research," said Coifman, who sees the greatest potential for wavelets in the medical field. "A whole new technology is emerging, and it may be the digital technology of the future. Washington University, which has been a breeding ground for wavelet researchers, will be in the midst of these developments."

Along with Washington University, Coifman considers Yale, Bell Laboratories, New York University and the University of South Carolina to be the leading wavelets research institutions in the country.

Weiss cited the Washington University "fast-packet" project, a high-speed fiber optic communications network that will have the capability of transmitting voice, data, video and high-resolution images all on the same system, as the type of communications research that may benefit from wavelets. The fast-packet project is being researched in collaboration with Southwestern Bell Telephone Co., SBC Technology Resources Inc. and NEC America Inc.

Weiss, Taibleson and Rochberg will collaborate with Jerome R. Cox, Sc.D., professor of computer science and chair of the Washington University computer science department, and Daniel Fuhrmann, Ph.D., Washington University associate professor of electrical engineering, in the wavelet research. In the Washington University

mathematics department alone, said Weiss, six postdoctoral students are working on wavelet research.

The term wavelets was coined by French researchers Jean Morlet and Alex Grossman in the early 1980s; these mathematics pioneers essentially developed new methods to analyze complex phenomena that since the early 19th century primarily had been analyzed by what is known as the Fourier transform, named for the French mathematician Jean B.J. Fourier. Fourier discovered that a complex function, like the vibrations of a musical note, could be broken down into basic units, the pure tones that make up the note. In mathematics, these basic units can be represented on a graph by sine and cosine curves, simple wavy functions that represent fluctuations of the function over time.

While the Fourier method has been "king of the hill" for nearly two centuries and is a staple in processing many kinds of information, the sine and cosine have limitations — they are not as effective with erratic or extremely complex functions. Wavelets fill in these gaps. They often give a far more precise compression of complex information than the Fourier transform, or any other method.

The Department of Defense grant comes from a branch called the Defense Advanced Research Projects Agency (DARPA).

"We have no real clues how our research will be applied, and we're not being directed by DOD," Weiss said. "Our work is pure research — applications are in the future. The Department of Defense has a real interest in signal processing research and in medical applications as well. A good part of the DARPA grant is for computer hardware. One of the first problems we'll tackle is how to take the theoretical aspects of wavelets and make them work so that they take advantage of the characteristics of the human visual system and also available computer hardware. It's a very stimulating challenge."

*Tony Fitzpatrick*



# NOTABLES

**Leonard Berg**, M.D., professor of neurology and director of the Alzheimer's Disease Research Center at the School of Medicine, participated in a workshop on the neuropathology of Alzheimer's disease and old age at a meeting hosted by the National Institute on Aging in Bethesda, Md. At the meeting, neuropathologists from North America and Europe discussed criteria for diagnosing Alzheimer's disease and distinguishing it from advanced aging and other disorders of the brain. He also attended the Fifth Congress of the International Federation of Psychiatric Epidemiology in Montreal. He conducted a workshop and participated in symposia dealing with techniques for identifying and assessing minor cognitive impairments and early dementia in population samples.

**Iver Bernstein**, Ph.D., assistant professor of history, held a research fellowship at the Historical Society of Pennsylvania/Library Company of Philadelphia, as part of a book project titled "The Origins of the American Civil War," which will be published by Oxford University Press. He also participated in a conference titled "American Politics in Historical Perspective," held at the University of California at Los Angeles. The conference explored different theoretical perspectives on American political history and the future of the discipline.

**Gregory Claeys**, Ph.D., associate professor of history, recently spoke on "The Early Socialist Critique of Democracy" at the annual meeting of the American Political Science Association in San Francisco, and on "Cultural Nationalism and European Broadcasting" at the second congress of the International Society for the Study of European Ideas at Leuven, Belgium. An NEH Fellow in Cambridge, England, in 1989-90, he also gave talks at the universities of Amsterdam, Bristol, Edinburgh, Haifa, Kent, London, Oxford and Princeton.

**Lawrence Conlon**, Ph.D., professor of mathematics, presented an invited paper on "Topological Obstructions to the Smoothability of Proper Foliations" at the Conference on Foliations and Related Topics held at the University of Lodz in Poland. The paper covered research Conlon conducted with Professor John Cantwell of St. Louis University.

## RECORD

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**Thomas F. Eagleton**, LL.B., University Professor of Public Affairs, has had his new book, *Issues in Business and Government*, published by Prentice Hall.

**Jack Hartstein**, M.D., associate professor of ophthalmology, received the Senior Honor Award of the American Academy of Ophthalmology at its annual meeting held Oct. 28-31 in Atlanta, Ga. **Jay S. Pepose**, Ph.D., associate professor of ophthalmology, also received an Honor Award for his contributions to the academy. In addition, Pepose has been selected to receive the 1991 Cogan Award from the Association for Research in Vision and Ophthalmology and will present a lecture on his work at the group's annual meeting next spring. Pepose also received the Olga Keith Wiess Scholar Award from Research to Prevent Blindness.

**James D. Kaplan**, M.D., instructor in medicine for the respiratory and critical care division at the School of Medicine, was selected as one of six finalists for the Cecile Lehman Mayer Research Award that was presented during the 56th Annual Scientific Assembly of the American College of Chest Physicians in Toronto. **Dan Schuller**, M.D., chief resident, Department of Internal Medicine, was selected as one of three finalists for the Dupont Critical Care Research Award competition at the chest physicians' annual meeting. Kaplan and Schuller both study in the laboratory of **Daniel P. Schuster**, M.D., associate professor of medicine and director of the medical and respiratory intensive care unit.

**Libby Reuter**, assistant dean for the School of Fine Arts and director of Bixby Gallery and the Fine Arts Institute, served as a committee member for the Inventors Association of St. Louis (IASL) fifth annual benefit cruise titled "Leonardo on the Levee: An Inventive Cruise." The benefit featured a boat ride down the Mississippi River aboard the Huck Finn riverboat to Jefferson Barracks Park to view the mechanical models of Leonardo da Vinci at the "I, Leonardo, A Journey of the Mind" exhibit. The IASL, formed as a not-for-profit organization in 1984, provides a professional network for area inventors and helps them develop and convert ideas into new products or businesses.

**Jesse Roman**, M.D., instructor in medicine and a Robert Wood Johnson Foundation fellow for the Minority Medical Faculty Development Program at the School of Medicine, presented the results of his research at the program's seventh annual meeting in Princeton, N.J. **John A. McDonald**, M.D., Ph.D., professor of internal medicine and director of the respiratory and critical care division, also attended the conference.

**Joseph L. Roti Roti**, Ph.D., professor of cancer biology in radiology and chief of the cancer biology section at the School of Medicine's Mallinckrodt Institute of Radiology, was elected to the office of councilor at-large of the Radiation Research Society. The society now in its 38th year, is composed of 2,000 scientists worldwide. Its objective is to encourage the advancement of radiation research in all areas of the natural sciences; to facilitate research between the disciplines of physics, chemistry, biology and medicine in the study of the effects of radiation; and to promote the dissemination of knowledge of these fields through publications, meetings and educational symposia.

**Morton E. Smith**, M.D., professor of ophthalmology, was elected to the board of directors of the American Board of Ophthalmology.

**Martha Storandt**, Ph.D., professor of psychology, chaired a discussion session on the report of the Ethics in Publishing Task Force of the American Psychological Association at the association's annual meeting in Boston.

**Carl Wellman**, Ph.D., professor of philosophy and Hortense and Tobias Lewin Distinguished Professor in the Humanities, has returned from a sabbatical leave spent writing about the grounds of legal and moral rights at Oxford University. He also presented a paper on Locke's Right to Revolution at the University of Istanbul. He read his paper "Violence, Law and Basic Rights" at Jagiellonian University in Krakow and at the Human Rights Centre in Poznan, Poland. He lectured on Politics and Constitutional Rights at a joint meeting of the Austrian and Hungarian na-

tional sections of the IVR near Graz. In addition, he participated in a meeting of the Executive Committee of the IVR at the University of Granada and while there chaired a session on Human Rights Today.

**Kristin E.E. Zapalac**, Ph.D., visiting assistant professor of history, chaired a session on "Peasant Community" at a conference on "Constructing the Community in Early Modern Germany" held at the University of Massachusetts at Amherst.

### 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.

## Trustee Maurice Chambers dies

Maurice R. Chambers, a life trustee of the Washington University Board of Trustees and board chairman from 1977 to 1980, died Oct. 14 at Bethesda Dilworth Memorial Home in St. Louis after a long illness. He was 74.

The funeral service was held Oct. 19 at St. John's United Methodist Church in St. Louis, with burial in Riverview Cemetery in Jefferson City, Mo.

Chambers was former president and chairman of Interco Inc., formerly International Shoe Co. By 1976, when he relinquished his position as chief executive and became chairman of the executive committee, Interco had become the 165th largest industrial company in the United States.

He was an energetic civic leader who headed campaign drives for numerous community organizations, including the Arts and Education Council of Greater St. Louis, the St. Louis Regional Commerce & Growth Association and the Saint Louis Art Museum. He was named the St. Louis Globe-Democrat's Man of the Year in 1971.

Chambers had been a Washing-

ton trustee since March 1968, and became a life trustee in 1980 after resigning as chairman due to failing health. Before his election as board chairman, he was a member of the executive, budget, nominating, and investments committees and served as chairman of the investments committee for six years.

A life member of the William Greenleaf Eliot Society along with his wife, Mildred, Chambers was responsible for several scholarships in the John M. Olin School of Business. In addition, Washington's Inter-fraternity Council annually sponsors the Maurice Chambers Community Service Award, which is given to the undergraduate fraternity chapter that has contributed the most in community service.

In addition to his wife, Chambers is survived by a daughter, Cynthia Ruth Berg; a sister, Kathryn Evans; two brothers, John B. Chambers and Thomas P. Chambers; and two grandchildren.

Memorial contributions may be made to the Endowment Fund of St. John's United Methodist Church or to a charity of the donor's choice.

## Soccer team enters championship play

For the eighth time in the last 13 years, the men's soccer team has earned an at-large bid to the National Collegiate Athletic Association Division III Men's Soccer Championship tournament.

The Bears (12-5-0) play a first-round game in the South Central Regional on Wednesday, Oct. 31, at 1 p.m. in Jacksonville, Ill., against MacMurray College (14-3-1). The

winner of Wednesday's game faces Wheaton College (18-2-0), the region's top-ranked team, on Saturday, Nov. 10, in Wheaton, Ill.

The soccer team has enjoyed a successful run in previous tournaments, finishing as the national runner-up in its last two appearances in 1985 and '87. In first-round games, the Bears own a 7-0 record.

## NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

**The joint degree program in law and Asian studies** is believed to be the first of its kind in the country, says William C. Jones, J.S.D., Charles F. Nagel Professor of International and Comparative Law, in a *New York*

*Times* article on the program that appeared Sept. 14. Jones, one of the program's founders, says, "We started this out of a belief that there have to be more American lawyers equipped to deal with the Far East." Rawson Hubbell, a third-year law student in the program, also was quoted in the article. "I see the trend in law and business is towards globalization," says Hubbell. "And the focus is going to be in the Pacific Rim."



# MEDICAL RECORD

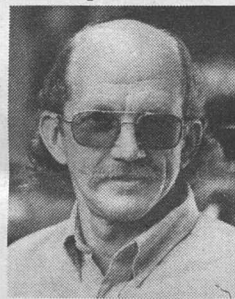
## Waterston receives MERIT status for muscle research

Robert H. Waterston, M.D., Ph.D., professor of genetics and associate professor of anatomy and neurobiology at the School of Medicine, has received MERIT status from the National Institutes of Health (NIH) for his latest grant.

The five-year grant from the National Institute of General Medical Sciences, a part of the NIH, totals \$1.3 million. The funding enables Waterston to continue research on the role genes play in the formation of muscle tissue. MERIT (Method to Extend Research in Time) status for the grant offers Waterston uninterrupted financial support without the time-consuming paper work and other delays traditionally associated with grant renewal applications.

Researchers cannot apply for MERIT status, but are chosen in recognition of their consistent commitment to excellence based on previous research. Once received, a five-year grant with MERIT status may be extended an additional three to five years, based on an expedited review of work accomplished during the initial period.

"Countless insights into cellular development have emerged as a result



Robert H. Waterston

of Robert Waterston's genetic research," says Chancellor William H. Danforth. "His work is providing an understanding of the role of genes in muscle development, and ultimately

could have significant implications in the study of human genetics and human neuromuscular disease. We are pleased that NIH has recognized his outstanding contributions."

Waterston's research is conducted in nematodes, tiny transparent worms in which neuromuscular development is easily visible.

As an example of his work, Waterston cites experiments involving the two nematode genes that make myosin, which in muscle is the most abundant protein affecting movement. Though the two genes are similar in sequence, genetic analysis shows the proteins they produce have different functions in directing the assembly of myosin into filaments, a basic structural unit of muscle. With Pam Hoppe, a postdoctoral associate, Waterston hopes to identify the specific sequences important for controlling assembly.

A 1965 graduate of Princeton University, Waterston received his M.D. and Ph.D. in 1972 from the University of Chicago. He served his internship in pediatric medicine at Children's Hospital Medical Center in Boston and served a post doctoral fellowship at the Medical Research Council Laboratory of Molecular Biology in Cambridge, England. He has been on the School of Medicine faculty since 1976. In addition, he is a member of the editorial board of the *Journal of Cell Biology* and is chairman of the Molecular Cytology Study Section at the NIH.

## Attention to detail: watching the brain pick and choose

Have you ever walked into a crowded room and spotted a friend by recognizing his favorite red sweater? Maybe you picked him out because he's tall or because of the way his shoulders move when he walks. Whether it was his sweater, height or sway of his shoulders, you paid attention to a particular type of visual information.

The search shifted your visual system into high gear and a remarkable process of elimination allowed you to sift through your surroundings and select the cues you needed to find that familiar face.

This amazing ability of the brain to select the information it needs and bypass what it does not has baffled scientists for years. Only recently have the tools and knowledge become available to explore the recesses of the brain where these routine functions take place.

At the School of Medicine, scientists have used PET (positron emission tomography) to observe activity in the brain's visual centers as the selection process occurs. Their study is one of the first to identify regions of the brain that are related to specific aspects of visual attention, and shows that as attention shifts there is a corresponding change in blood flow patterns.

### Selective service

"At any one time there is a tremendous amount of information coming into the brain, but we don't use it all. We select and ignore," says investigator Steven E. Petersen, Ph.D., acting director of the division of neuropsychology. "We're trying to learn how the brain makes these selections — how the information processing is implemented in terms of circuitry."

Petersen, Maurizio Corbetta, M.D., research instructor in neurology, and their colleagues have learned that certain parts of the visual cortex — the area in the back of the brain that deciphers what the eye sees — become active or "enhanced" when we focus on a particular aspect of an object, such as color. They believe these specialized areas sift through and process selected information, thus allowing us to pick and choose what we look for at any given moment.

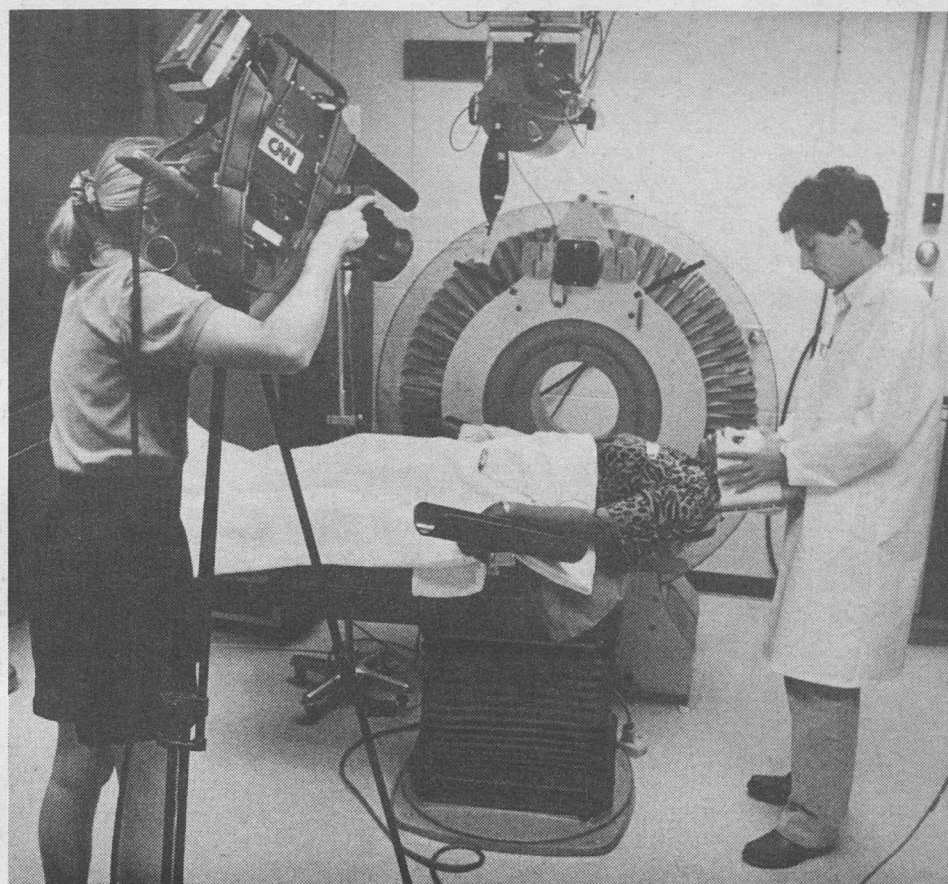
"The purpose of the study was twofold," Petersen says. "First, there seem to be areas in the back of the brain that are related to different aspects of visual objects, like color or shape or velocity. We wanted to identify areas related to those things. Then we wanted to see if we could show what effect attention has on those areas by manipulating what people do with the visual stimulus. Rather than manipulate what went into the eyeball, we manipulated what study techniques people were thinking about."

### Study recruits

Petersen and Corbetta designed a task that required eight subjects to watch for different characteristics — color, shape and velocity — of the same objects for a series of 40-second PET scans. The series was repeated every 10 minutes for about two hours.

By observing blood flow changes in subjects' brains while the tasks were taking place, Petersen and Corbetta were able to identify several overlapping visual association areas related to color, shape and velocity that are believed to play a role in the process of selection. Their report in the June 22, 1990, issue of *Science* also describes how blood flow switches to different brain regions when attention is selectively shifted to different characteristics of an object.

"Different stimuli activate differ-



A photographer with Cable News Network videotapes Maurizio Corbetta, M.D., as he prepares a study participant for a PET scan. A story on Corbetta's and Steven Petersen's work aired on CNN last week.

ent areas of the brain," says Corbetta. "If a stimulus such as color is being attended to, the frequency of neuronal firing increases in a specific region of the brain."

The subjects completed four sets of 40 trials in which they were instructed to: watch color, ignore shape and velocity; watch shape, ignore color and velocity; watch velocity, ignore shape and color; and watch for any or no changes at all. Subjects were placed in the PET scanner for the trials and viewed a special video display terminal suspended in front of them.

Randomly spaced, like-colored, moving bars were displayed on a blackened screen. The bars changed in shape from rectangles to squares. The subjects viewed each screen for 400 milliseconds, separated by 200 millisecond intervals, and responded by a key-press. The PET scanner measured response as the task was performed, enabling researchers to study changing blood flow patterns.

PET produces images of regional blood flow in the brain by mapping the uptake of a radioactive marker. In this study, a low-dosage positron emitting isotope of water was intravenously administered to the subjects. Areas of increased or enhanced blood flow, which reflect brain cell activity, showed greater uptake and aided researchers in identifying which parts of the brain are involved in selective attention.

"The eyeball is not affected by attention, and the first waystation for information beyond the eye, known as the LGN, (lateral geniculate nucleus) does not appear to be affected," Petersen says. "You have to go further into the visual system. These visual association areas we see (with PET) are affected by attention."

### Measuring thought

At different times subjects were asked to identify changes in a single characteristic and changes in all three characteristics. Subjects proved to be more sensitive to subtle changes when they focused on a single characteristic, Petersen says, which shows, "You do better looking for one thing than looking for several."

"Even though the visual stimuli were the same, when you pay attention to a particular characteristic such as shape, what you are thinking about

turns up a certain visual association area," he explains. "We actually could measure what people were thinking with PET, because the scan or exposure picks up how the marker is flowing through the brain. Blood flow changes locally with how hard your brain is working — how much nerve cells are firing."

### Cornerstone of consciousness

What science knows of brain physiology comes largely from animal studies, particularly in monkeys, because living human tissue cannot be analyzed closely enough. Scientists know there are different parts to the visual association cortex, such as the primary visual cortex, which is the main receptive area for vision. Surrounding it are several other brain structures — areas which Petersen says receive information from the primary visual cortex but are related to a higher level of visual processing.

Petersen notes that selective attention is related to concentration, which involves other processes. Selective attention is a tool that aids in identification.

"If you're told to look in a crowd for a friend wearing a red coat, looking for the redness helps you find your friend," he says. "You are given that information and are able to use it."

Scientists are just beginning to understand attention, he comments. One reason it has captivated the scientific audience is because it is the cornerstone of consciousness.

"Studying attention is a way to get close to studying consciousness," Petersen says. "It is studied a great deal in the fields of psychology, philosophy and neuroscience — all are interested in attention because it's so relative to how we interact with the world. It's of great interest to curious humans in getting closer to understanding how we become conscious human beings."

"Many mental illnesses are attributed to attention: attention deficit disorder, schizophrenia, depression, behavior following strokes and other brain damage," he continues. "The more we learn about how the brain processes information related to attention, the better off we will be."

Kleila Carlson



### \$3.1 million grant

## Fisher to study asthma in kids

Edwin B. Fisher Jr., Ph.D., director of the Center for Health Behavior Research at the School of Medicine, has received a \$3.1 million grant from the National Heart, Lung, and Blood Institute to study methods for controlling asthma among black and Hispanic children.

Researchers will collaborate with Grace Hill Neighborhood Services, a private social welfare agency, to organize and evaluate a neighborhood support program for improving asthma management among low income, predominantly black children in four St. Louis neighborhoods.

Efforts in each neighborhood will include promotional campaigns to increase awareness of asthma; distribution of educational information to help people identify asthma and get them continuing care, and the training of volunteers as asthma advocates to work with asthmatic children and their care-givers. Plans also call for an asthma management course offered through community health centers, churches and other local institutions, in-service teacher training on asthma management at local schools and an asthma program for all students to enhance support for asthmatic children.

Robert C. Strunk, M.D., professor in pediatrics, is the co-principal investigator on the project. This study

complements previous work of Strunk as well as work examining asthma among adults which Fisher is pursuing with H. James Wedner, M.D., associate professor of medicine, and Debra Haire-Joshu, Ph.D., research instructor in medicine. That study, part of the Washington University Center for Interdisciplinary Research and Studies in Immunologic Diseases, is expected to conclude this fall.

Asthma is a major public health problem affecting 10 to 15 million Americans, and is an even greater problem among minority populations, especially among blacks. Experts note that asthma deaths are three times higher for blacks than for whites, and asthma hospitalization rates for blacks are twice that of whites.

The School of Medicine is one of five medical centers to receive the NHLBI funding, which totals \$9,413,323. Projects will run four to five years, with the results expected by 1995. The other institutions are Howard University, Columbia University, University of New Mexico and University of Texas.

The Center for Health Behavior Research is within the Department of Medicine. Fisher, an associate professor of psychology, has been its director since 1985.

## Patient cured of abnormal heart rhythm

A 46-year-old Illinois woman is among the first patients in the nation and the first in Missouri to be cured of an abnormal heart rhythm using high-frequency, electrical energy.

The patient was discharged from Barnes Hospital on Oct. 24. Doctors here say the new technology will eliminate the need for medicine or surgery in many patients with certain types of heart rhythm abnormalities.

The technique, called radiofrequency catheter ablation, is being studied at the School of Medicine under the direction of Bruce Lindsay, M.D., Robert Hoyt, M.D., and Michael Cain, M.D.

The team of cardiologists used a catheter in the woman's heart to transmit high-frequency, electrical pulses to a small portion of cardiac tissue responsible for her arrhythmia. Arrhythmias arise out of short circuits within the heart's electrical system.

Using radiofrequency electrical energy, the tissue containing the errant electrical pathway was selectively destroyed. The result was a perfectly healthy heart, according to Cain.

The advantage of radiofrequency

electrical energy, Cain says, is that the intensity and duration of the energy transmission can be precisely controlled, allowing doctors to selectively destroy small portions of tissue with the same accuracy that previously could be achieved only with surgery.

The technology evolved out of the expertise at the medical center for heart arrhythmia treatment, which includes medications, implantable devices that recognize and terminate certain abnormal heart rhythms, and arrhythmia heart surgery, which has a near 100 percent cure rate. The patient is among a small number to undergo the procedure, including those in pilot studies at the University of Michigan and the University of Oklahoma.

The new therapy is an addition to the many treatment options available and is expected initially to benefit patients with a type of arrhythmia called supraventricular tachycardias that are associated with the Wolff-Parkinson-White Syndrome or are due to AV nodal reentry.

Further studies here are ongoing to use this approach for the treatment of other arrhythmias.

## Ratner receives grant from cancer society

Lee Ratner, M.D., Ph.D., associate professor of medicine and assistant professor of molecular microbiology at the School of Medicine, has been selected as an American Cancer Society research professor.

In conjunction with the appointment, he has received a \$205,000 grant to continue his studies on human retrovirus infections. The five-year grant from the American Cancer Society will enable Ratner to study specific processes involved in the replication of the human immunodeficiency virus, which causes AIDS. He also will investigate human lymphotropic retroviruses, which can lead to the development of leukemias and spinal cord disorders.

Ratner's research focuses on the origin and development of human retrovirus infections. He is particularly interested in how some HIV strains

can infect monocytes, the major blood cells affected when HIV infects the brain. He hopes to isolate the viral determinants responsible for infecting monocytes and learn more about their function. He also will study the mechanisms of action of viral regulating proteins, which are produced by the virus and are responsible for the rate of virus replication, and look at how proteins that enter specific HIV particles interact and assemble to form a new virus.

Ratner is co-director of the Washington University AIDS Clinical Trials Unit and oversees investigation of a variety of new and improved therapeutic interventions for HIV infection and related retroviruses. Washington University's AIDS Clinical Trials Unit is one of 17 nationwide that receives funding from the National Institutes of Health.

## A pill a day keeps the doctor away

A pill a day is a lot easier to swallow — and more likely to be — than one prescribed two or three times daily, says a researcher at the School of Medicine.

The less often each day patients are asked to remember their prescription drugs, the more likely they are to actually take them, says Seth A. Eisen, M.D., principal investigator of the study, reported in the September issue of the Archives of Internal Medicine. Using a unique electronic monitor that records the date and time pills are removed, he and his colleagues studied 105 patients receiving hypertension medicine and found that compliance improved dramatically as prescribed dose frequency decreased.

"It just makes sense," says Eisen, a clinical assistant professor of internal medicine. He conducted the study, which was funded by the Department of Veterans Affairs, with colleagues from Washington University and St. Louis University School of Medicine. "Someone who only has to take one pill is much more likely to take that medication as prescribed than someone who is supposed to take medications two or three times a day. Our study begins to associate that intuitively obvious theory with actual numbers."

Experts estimate that anywhere from 20 to 50 percent of all patients are not compliant with their prescribed regimens.

Physicians can improve compliance simply, Eisen says. "Select medications that permit the lowest daily dose frequency possible." And while Eisen studied older, male patients receiving hypertension medicine, his advice extends to other age groups and diseases.

The pharmaceutical industry's current thrust toward developing longer-acting drugs increases their availability for a host of illnesses, he notes, but at a cost: The newer, sustained-release medications generally are more expensive than the shorter-acting doses they replace. They also are often promoted as enhancing compliance, and as Eisen points out, that's a claim worth checking.

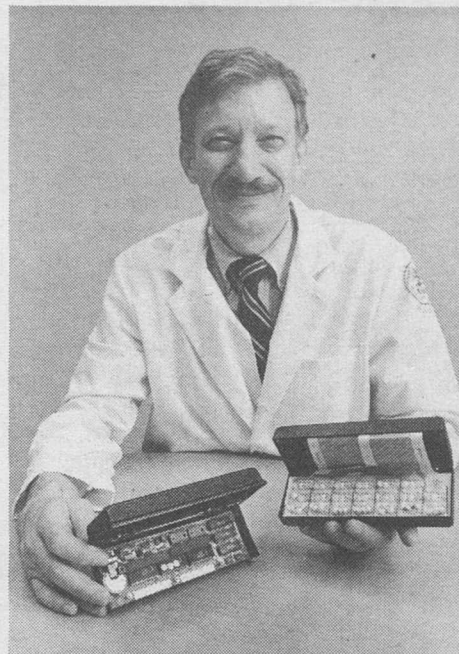
According to the American Pharmaceutical Association, Americans spent \$17.8 billion on prescription drugs, at an average price of \$16.62 per prescription, in 1988 alone. If the more expensive, long-acting drugs do indeed improve compliance, Eisen comments, patients may get better sooner, meaning they'll spend less on medications over time.

For the study Eisen followed patients attending a hypertension clinic at the St. Louis Veterans Affairs Medical Center for five months, and found that patients on a three-times daily regimen had a compliance rate of only 59 percent. Compliance improved to 75 percent for patients with a twice-daily prescription, and to 84 percent for those taking medicine once a day.

### Researcher invented monitor

In order to give the highest possible estimate of compliance, Eisen used the simplest definition — that the patient removed the prescribed number of pills from the container in a 24-hour period, whether or not at the correct times. His measurements were made using a small electronic compliance monitor that he invented in 1987 with colleagues John Hanpeter and Mike Gard.

The device — a blister pack equipped with loops of conductive wires under each pill — has a battery-operated electronic memory that sends an impulse through each loop



Seth Eisen, M.D., holds the electronic pill-monitoring device he and colleagues invented to determine when patients take their medicine.

every 15 minutes. When the patient removes a dose of medication, the wire is broken and the electrical impulse fails to return to the electronic memory; the lapse is recorded. The data, which reveal the date and time to within 15 minutes that each dose was removed, are later transferred to a desktop computer that processes and prints the information for analysis by the treating physician.

### Significant problem

"One of the clear issues that faces physicians and health care providers directly is that of medication compliance," he comments. "The problem of patients not taking their pills is a very common one for physicians. When the patient isn't getting better, it can be very difficult to distinguish whether it's because the pills are ineffective or because the patient just isn't taking them."

Over the last decade, scores of papers have addressed the issue, he adds, attempting to isolate a factor or combination of factors that could help categorize patients as compliant or non-compliant. The studies are conflicting, for the most part, and haven't yet identified any single element that can be used to establish an at-risk population. Various socioeconomic and psychological factors might affect compliance negatively, he notes, among them increasing age, decreasing mental acuity, lower education and a fatalistic attitude toward being able to influence the course of one's own health.

Given this ambiguity as to the causes of non-compliance, Eisen suggests, physicians can be most effective by focusing on any technique that improves compliance.

"Part of this is educating physicians about the significance of changing their prescribing patterns," he says. "There's been almost a revolution in packaging medications in the last half-dozen years. Tremendous focus has been placed on packaging prescription drugs so that one pill causes more sustained levels of medication in the blood."

Because these longer-acting drugs are more expensive, Eisen says, physicians and health care administrators — not to mention insurance companies — may hesitate to support them. "Now, with data such as ours, when physicians and administrators look at the economics of prescribing a more expensive, long-acting medication versus a much less expensive but shorter-acting medication, they can begin to make some assessment as to whether it truly will be beneficial."

Debra Bernardo



# MEDICAL RECORD

## Lipid Research Center to train physicians in cholesterol care

The School of Medicine has been designated one of six centers for training physicians in how to better treat patients with high blood cholesterol and other lipid disorders.

The American Heart Association (AHA) announced Tuesday the names of regional sites that have been designated as Lipid Research Training Centers. The three-year educational program, coordinated by the AHA with support from Bristol-Myers Squibb United States Pharmaceutical Division, will train some 1,500 physicians in state-of-the-art diagnosis and management of lipid disorders. The goal of the program is to ensure that patients receive the highest quality of care for lipid dysfunctions.

Lipids are fatty substances in the blood that have been linked to heart and blood vessel disease, the nation's leading killer.

Other training centers are located at Baylor College of Medicine in Houston; Johns Hopkins University School of Medicine in Baltimore; University of California in San Francisco/Berkeley; University of Iowa in Iowa City; and University of Washington in Seattle.

Washington University will train physicians from Kansas, Missouri, Arkansas, Tennessee, Kentucky, North Carolina, West Virginia, Ohio, the southern half of Indiana and Illinois, and the western half of Pennsylvania.

Gustav Schonfeld, M.D., director of the Atherosclerosis and Lipid Research Center at the School of Medicine and Kountz Professor of Medicine in the Department of Internal Medicine, will direct the training center.

Program participants will study a wide spectrum of disorders and will receive specialized training in nutri-

tion, diet counseling and laboratory procedures. A continuing education component following completion of the program will reinforce skills the participants have acquired. Physicians also will be able to bring a member of their office staff to participate for one day of the three-and-a-half day course.

"We recognized that the needs of the community were just not being met," said John C. LaRosa, M.D., chairman of the AHA's Task Force on Cholesterol Issues. "Physicians must understand the complex issues surrounding lipid diseases. Simply advocating the reduction of total fat, saturated fat and cholesterol is not adequate for all patients."

According to LaRosa, these trained clinical lipid specialists can then serve as resources to the community, providing consultations and establishing standards of practice for the treatment of these disorders.

Creation of the six training centers was made possible by a \$3 million grant from the Bristol-Myers Squibb U.S. Pharmaceutical Division. Each lipid center will receive \$140,000 per year for the next three years. Funds will help support salaries and benefits for faculty and staff, program materials, conference and overhead costs.

The AHA is the largest voluntary health organization dedicated to the prevention of disability and death from heart and blood vessel diseases which annually kill one million Americans. The AHA sponsors research, professional and public education, and community service programs.

For more information about the program, call Martha Stegmaier at the School of Medicine's Lipid Research Training Center, 362-4442.

## Alzheimer's investigators awarded \$103,000

Six researchers at the School of Medicine's Alzheimer's Disease Research Center (ADRC) have received more than \$103,000 for various investigative projects.

Awards for the independent pilot studies are from the Missouri Alzheimer's Disease and Related Disorders Task Force, a state-funded program that promotes Alzheimer's disease research and education.

The researchers and their projects are: Mary Coats, \$17,096, assessing weight loss in the demented nursing home resident; Janet M. Duchek, Ph.D., \$13,991, assessing the degree to which attention is impaired in healthy and demented older adults; Dorothy Edwards, Ph.D., \$12,211, assessing differences in how demented older adults perform everyday tasks of self-care in different environments, such as physicians' offices and their own homes; Gary S. Figiel, M.D., \$20,000, evaluating the potential role of brain

magnetic resonance imaging (MRI), a painless, safe way of producing pictures of the brain, as a way to diagnose the earliest stages of disease; Michael Noetzel, M.D., \$20,000, examining brain cells of mice with a genetic disease resembling Down syndrome to determine how these cells may contribute to the appearance of Alzheimer's disease changes in brain cells of some Down syndrome patients; and Marcia Smith, Ph.D., \$20,000, assessing handwriting in demented and healthy older adults and in patients with Parkinson's disease, as a test to determine problems with smooth movement.

The ADRC was established in 1985 and conducts research on the basic science, clinical and behavioral aspects of Alzheimer's disease. In addition, the center trains scientists and health care professionals and informs the public about research advances.

## Benefit dance to be held for employee

There will be a benefit dance for Annette Weber from 8 to 12 p.m. on November 10 at the Seven Holy Founders Church Hall, located at Rock Hill and Gravois roads.

Last year Weber, a secretary with the Washington University Medical Center Redevelopment Corp., became the fourth patient to undergo a combination pancreas/kidney transplant at the medical center.

She suffered from diabetes for 22 years and had been on dialysis for

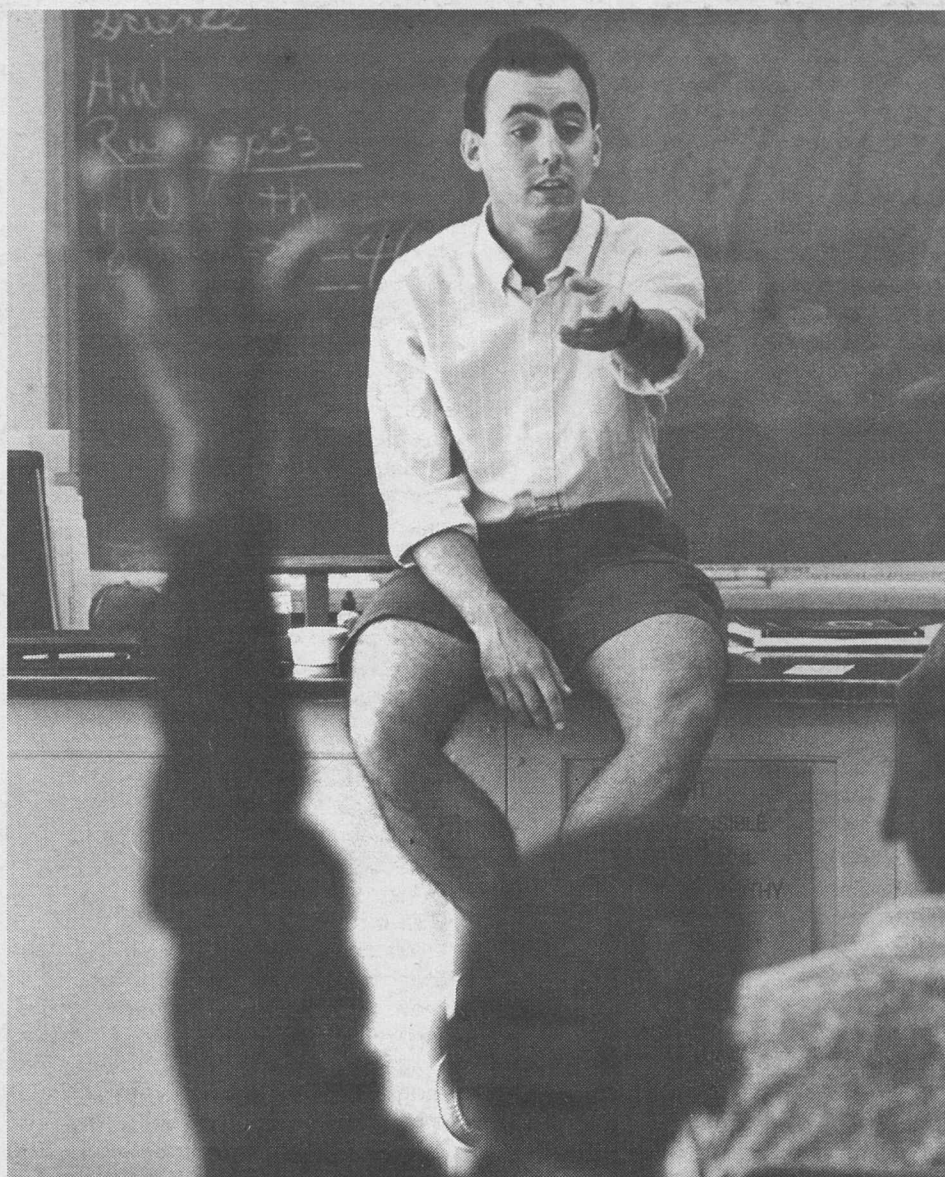
nine months prior to the transplant.

Since the transplant, Weber no longer requires insulin injections or dialysis for her diabetes.

Tickets to the dance cost \$10 per person and funds collected will be used to pay Weber's health care costs.

Randy Weber, Annette Weber's husband, also works for the school as a medical photographer in the Department of Surgery.

For tickets or more information, call 752-1580 or 481-6722.



**AIDS education:** Second-year medical student Colin McDonald answers questions about AIDS from students at Brittany Woods Middle School in University City. McDonald is taking part in the Students Teaching AIDS to Students (STATS) Program, where some 50 students at the School of Medicine go into a school to teach seventh and eighth graders about AIDS. The goal is to educate young people before they begin behaviors that put them at risk for catching the disease. School children are also visited by a person living with AIDS as part of the STATS presentation. Brittany Woods is the second school to participate in the program.

## American College of Physicians selects Karl to become a master

Michael M. Karl, M.D., director of clinical affairs for the Department of Medicine, has been selected to become a Master of the American College of Physicians (ACP).

Karl, professor of clinical medicine, is the fourth physician in Missouri to achieve the honor. The late Carl V. Moore, former president of Washington University Medical Center and the School of Medicine's first vice chancellor for medical affairs, was the first Missouri physician to attain the esteemed position with the ACP. Of the ACP's 60,000 members, approximately 200 nationwide have been awarded masterships in the past.

Masters are ACP fellows who because of personal character, positions of honor and influence, and eminence in medical practice or research are recommended by the Awards, Masterships and Honorary Fellowships Committee to the ACP Board of Regents. The Board of Regents selects masters recipients, who will receive their awards at the organization's 72nd annual session in New Orleans in April.

Earlier this year, the ACP recognized Karl by presenting him the

Ralph O. Claypoole Sr. Memorial Award for achievement in the clinical practice of internal medicine and for devotion to the care of patients. He was the ACP Governor for Missouri from 1982-87, and in 1978 was one of 40 members of a national advisory committee appointed by President Jimmy Carter to the White House Conference on the Family.

Karl is a diplomate of the American Board of Internal Medicine and a member of the St. Louis Medical Society and Alpha Omega Alpha, the honorary medical society.

At the School of Medicine, both the Karl lectureship and the Irene E. and Michael M. Karl Professorship in Endocrinology and Medicine honor the many contributions of Karl and his wife, a research professor in medicine for the Division of Metabolism and Endocrinology.

The ACP is a non-profit organization of physicians trained in internal medicine. It includes practitioners providing primary care, medical specialists in cardiology, neurology and oncology and medical researchers and teachers. The ACP also publishes

## Diabetes/smoking study needs volunteers

Researchers at the School of Medicine need volunteers for a study on diabetes and smoking.

The two-year study, sponsored by the Department of Internal Medicine's Center for Health Behavior Research, is one of the first in the country to focus on the psychological and physical factors that may influence the smoking behavior of diabetics. The study will also examine the

effectiveness of methods designed to help diabetics quit smoking. Because of their illness, diabetics who smoke run an even higher risk of cardiovascular disease than the general population of smokers.

Volunteers must be smokers, 18 years of age or older, and currently on medication for their diabetes.

For information, call 361-6717 weekdays between 10 a.m. and 3 p.m.



# PERSONNEL NEWS

## Hilltop Campus staffing policy revised

*The following is a memo to administrative staff personnel from Gloria W. White, vice chancellor for personnel and affirmative action officer.*

Effective July 1, 1991, the Washington University Hilltop staffing policies will be changed. Listed below are the new policies that will be in effect for staff, professional and administrative employees.

The policy revisions were necessary for several reasons:

1) The 10 Account budget category was developed originally to provide the same benefits for "key administrative personnel" as were available to faculty. Today, benefits are the same for all personnel categories — faculty, staff, professional and administration.

2) Alignment of holiday and vacation policies throughout the University is important because of the interdependence of the Hilltop and Medical campuses.

3) Washington University's mission is education. The faculty provides the education; the support of the faculty is provided by non-faculty personnel — staff, professional and administrative employees.

I believe that these policy revisions will serve the University community well and enhance its efficiency.

### Revised personnel categories

Effective July 1, 1991, the Washington University Hilltop Campus will have two budget categories of personnel. The budget categories are:

Account 11 - Faculty  
Account 12 - Staff, Professional and Administrative employees

Some personnel in the Account 12 budget category will be designated exempt in accordance with the Fair Labor Standards Act (FLSA).

The Account 10 budget category will be eliminated.

### Vacation

As of July 1, 1991, all full-time non-union Account 12 personnel will be eligible to earn twenty-two (22) days of vacation annually.

Vacation time is accrued from July 1 through June 30 on a fiscal year basis. During the first partial year, vacation will be prorated according to the number of full months worked prior to July 1.

Vacation time may be taken at any time after it has been accrued following six months of service, but in any case no later than the end of the next fiscal year (June 30). The scheduling of vacation time requires the prior approval of the department head. Vacation time accrues but may not be taken and is not considered earned until after the completion of six months of service.

Vacation pay in lieu of actual vacation time taken will not be granted to employees continuing their employment or transferring to another department. In the case of transfer the amount of paid vacation earned shall be transferred from the old to the new department by journal transaction, and the time shall be given to the em-

ployee when it is mutually convenient to both the employee and the new department.

Employees who terminate their employment with the University will be paid for unused accrued vacation up to their maximum annual accrual earned but in no case in excess of twenty-two (22) days pay.

### Paid holidays

As of July 1, 1991, the Hilltop Campus Account 12 personnel will be granted time off with pay for the following holidays: Independence Day, Labor Day, Thanksgiving (Thursday and Friday), Christmas Day, New Year's Day, Martin Luther King Jr.'s Birthday and Memorial Day.

### Fringe benefits

The existing fringe benefits program will not be affected by the revisions in the personnel categories. However, as in the past, the University may from time to time make revisions in the benefit plans.

### Sick leave

Each employee who is in full pay status will accumulate sick leave at the rate of one (1) day for each calendar month worked up to a maximum of one hundred and twenty (120) days. Sick leave for new employees will accumulate but may not be used during the six months probationary period. No sick leave is accumulated in excess of the maximum. When sick leave is used, it is again accumulated at the normal rate until the maximum is reached.

## Help is available for employees with personal problems

As a service to University employees, the Personnel Office has compiled the following resource list for those with personal problems.

Crisis Intervention Resource and Referral: 647-4357, 9 a.m.-9 p.m., Monday through Saturday.

### Alcohol and drug abuse

Alcoholism Information Center National Council on Alcoholism: 8790 Manchester Road, 63144, 962-3456.

Alcoholics Anonymous Central Service: 2683 South Big Bend, Room 4, Maplewood 63143, 657-3677.

Al-Anon Family Groups: 2683 South Big Bend, Room 17, Maplewood 63143, 645-1572.

Mid-County Physicians: 11745 Olive Blvd., St. Louis 63141, 567-5011.

Alcohol and Drug Abuse Counseling: 1034 South Brentwood, St. Louis 63117, 725-1616.

Acid Rescue (Drug Crisis Intervention): 1422 South Big Bend, Richmond Heights 63117, 645-2900.

Alexian Brothers Hospital: 3933 South Broadway, St. Louis 63118, 865-3333.

### Social service agencies

Family and Children's Service of Greater St. Louis: 107 South Meramec, Clayton 63105, 727-3235.

Jewish Family and Children's Service: 9385 Olive Blvd., University City 63132, 993-1000.

Lutheran Family and Children's Service: 4625 Lindell, St. Louis 63108, 361-2121.

Family Resource Center (child or spouse abuse): 3930 Lindell, St. Louis 63108, 534-9350.

### Financial problems

Consumer Credit Counseling Service: 1425 Hampton, St. Louis 63139, 647-9004. No fee for service.

### Legal problems

Legal Aid Society: 625 North Euclid, St. Louis 63108, 367-1700.

Lawyers Reference Service: Civil Courts Building, 12th & Market 63101, 622-4995. Clayton Courthouse, 3rd floor, 7900 Carondelet, 63105, 889-3073. \$5 fee to talk to lawyer on duty; \$20 for referral for further services.

### Mental health

Christian Hospital Center for Mental Health, 1225 Graham Road, Florissant 63031, 839-3800, ext. 5284.

## Reimbursement for child care expenses

Any employee who participated in the Child Care Reimbursement Account during 1990 has until March 31, 1991, to submit claims for reimbursement for qualified child care expenses incurred during 1990. Any employee who participated in the Child Care Reimbursement Account during 1990 and has funds remaining in his or her account after Dec. 31, 1990, will be provided a statement during January 1991 showing the balance remaining in the account.

## Personnel News

Personnel News appears monthly in the Record and is prepared by Gloria W. White, vice chancellor for personnel and affirmative action officer, and other members of the Personnel Office. Personnel News is designed to keep Washington University employees and their families informed of the benefits and opportunities available at the University.

## Three professional job searches are under way

Washington University is conducting searches to fill professional positions on the Hilltop Campus.

### Associate Director of Major Gifts and Director of University Development Projects

Washington University is seeking a talented and ambitious individual to serve as Associate Director of Major Gifts and Director of University Development Projects. This is a challenging and permanent position in the Office of Alumni and Development Programs. Preferred qualifications include a minimum of a baccalaureate degree and at least five years experience in alumni/development or related work. Preference will be given to candidates who have successfully planned and implemented major development programs at a college or university or in a closely related field. Excellent writing, speaking and organizational skills are essential. Must be willing to travel.

The associate director of major gifts and director of University development projects reports jointly to the vice chancellor for alumni and development programs and the director of major gifts and will assist in the identification, cultivation and solicitation of major prospects and in planning and carrying out school-based or University-wide fund-raising efforts.

Application deadline is Nov. 13, 1990. Send resume to: David T. Blasingame, Vice Chancellor, Alumni and Development Programs, Washington University, Campus Box 1101, One Brookings Drive, St. Louis, MO 63130. **Director of Development, George Warren Brown School of Social Work**

Washington University is seeking a talented and ambitious individual to serve as director of development for its George Warren Brown School of Social Work. This is a challenging and permanent position in the Office of Alumni and Development Programs.

Preferred qualifications include a minimum of a baccalaureate degree and at least five years experience in alumni/development or related work.

Preference will be given to candidates who have successfully planned and implemented annual fund and major donor programs at private institutions, and whose resumes indicate that they have skills directing volunteers, and have been promoted or have assumed more responsibility at their current institutions. Application deadline is Nov. 15, 1990. Send resume to: David F. Jones, Assistant Vice Chancellor and Director, Schools Alumni and Development Programs, Washington University, Campus Box 1210, St. Louis, MO 63130. **Assistant General Counsel**

The assistant general counsel will work with the general counsel, outside counsel, and independently in providing legal services to Washington University. The Office of the General Counsel provides representation to the Hilltop and Medical campuses of the University.

Qualifications: Evidence of professional competence; admission to practice in Missouri, or eligibility for licensure in the near future; an ability to work well with people; an ability to evaluate legal issues in the context of University policies and provide practical and relevant guidance; at least one (1) year of practice experience.

The following qualifications are desirable: Experience in dealing with governmental agencies; practice experience in labor law, commercial transactions, administrative law, taxation and real estate; graduation in top 25 percent of law school class.

Application process: Submit a resume to: Dorothy Humphrey, Office of the General Counsel, Washington University, Campus Box 1058, One Brookings Drive, St. Louis, MO 63130.

A writing sample and references will be requested from the applicants

given final consideration. All resumes must be received by Nov. 30, 1990.

### Secretarial, clerical positions

In addition to the professional searches, qualified candidates are being sought to fill secretarial, clerical and technical positions on the Hilltop Campus. These positions include the following:

Administrative assistant, 2 positions; bookkeeping, 1 position; clerical, 5 positions; coordinator/trainer, 2 positions; laboratory, 3 positions; librarian, 2 positions; library assistant, 2 positions; manager, 2 positions; part-time, 2 positions; research, 2 positions; secretarial/word processing, 3 positions.

Information about these and other positions is available through the Hilltop Campus Personnel Office, Room 126, North Brookings, 889-5990, and the Medical Campus Personnel Office, 1130 Hampton Ave., 726-7510.

## Equal employment is training session topic

The Hilltop Personnel Office will sponsor a training session titled "Preventing or Minimizing Employment Discrimination Claims Based on Race or National Origin" from 9 to 11 a.m. on Dec. 12 in Room 100 Brown Hall.

Donna Harper, senior trial attorney with the Equal Employment Opportunity Commission, will update and advise Washington University employees on legislation affecting Equal Employment Opportunity. Employees interested in attending this training session should complete the registration form available in the Personnel Office and return it by Dec. 7 to Juli W. Einspanier, Personnel Office, Campus Box 1184.



# CALENDAR

Nov. 1-10

## LECTURES

### Thursday, Nov. 1

**1 p.m. Black Arts and Sciences Festival Lecture**, "Careers for Minorities in the Technical Field," Linwood "Lin" Hart, an engineering director for the American Telephone & Telegraph Co. May Aud., Simon Hall. For more info., call 889-5970 or 889-5690.

**2:30 p.m. Dept. of Mechanical Engineering Seminar**, "Mechanics of the Human Semicircular Canal," Richard Rabbitt, WU asst. prof., Dept. of Mechanical Engineering. Room 100 Cupples II. For more info., call 726-4346.

**4 p.m. WU Chapter of American Association of University Professors Meeting and Lecture**, "The Role of a University Board of Trustees," Lee M. Liberman, chairman, WU Board of Trustees. Court Room, Mudd Law Bldg. For more info., call 889-6271 or 889-6276.

**4 p.m. Dept. of Anthropology Colloquium** with Jean Briggs, Memorial U. of Newfoundland. 101 McMillan Hall. (Coffee: 3:45 p.m.)

**4 p.m. Asian Studies East Asian Colloquium Series**, "Traditional Culture and Chinese Modernization," round-table discussion with visiting professors of history and philosophy from the Shanghai Academy of Social Sciences. Room 30 January Hall. For info., call 726-4448.

**4:15 p.m. Dept. of Philosophy Colloquium**, "Objectifying Communitarianism," Robert Rafalko, WU visiting prof., Dept. of Philosophy. Hurst Lounge, Duncker Hall.

**4:30 p.m. Dept. of Mathematics Colloquium**, "Pushing Representations of Free Groups to the Boundary," Tim Steger, U. of Chicago. 199 Cupples I. (Tea: 4 p.m. in Room 200 Cupples I.)

**7 p.m. Dept. of Germanic Languages & Literatures Lecture**, "Literarisches Leben in Berlin: Ein kultursoziologischer Beitrag," Hartmut Eggert, prof. of German, Free University, Berlin. Hurst Lounge, Duncker Hall.

**7:30 p.m. Black Arts and Sciences Festival Panel Discussion**, "The Legacy of Imhotep: African-Americans in Medicine Today," featuring a group of African-American doctors and hospital administrators. Friedman Lounge, Wohl Center. For info., call 889-5970 or 889-5690.

### Friday, Nov. 2

**Noon. Dept. of Cell Biology and Physiology Seminar Series**, "Structure, Expression, and Functions of the Rat Substance P Receptor," James E. Krause, Dept. of Anatomy and Neurobiology. Cell Biology Library, 4th Fl., McDonnell Medical Sciences Bldg.

**Noon. Dept. of Surgery Transplant Conference**, "Use of Transgenic Mice to Examine Cellular Immunity in Xenogeneic Transplantation," Hugh Auchincloss Jr., assoc. prof. of surgery, Massachusetts General Hospital. Third Fl. Aud. Children's Hospital.

**4 p.m. Dept. of Chemistry Seminar** with Udo Schroeder, U. of Rochester. 311 McMillan Lab.

**6 and 8:30 p.m. WU Association Travel Lecture Series**, "Yellowstone," Dale Johnson, gold medal winner at the New York International Film Festival. Graham Chapel. For ticket info., call 889-5212.

### Sunday, Nov. 4

**2 p.m. Dept. of Art History and Archaeology Illustrated Lecture**, "In the Shady Grove of Apollo," Sarantis Symeonoglou, WU prof. of art history and archaeology, gives an illustrated lecture on the results of his 1990 archaeological dig on the Greek island Ithaka. Steinberg Hall Aud. Co-sponsored by the St. Louis Society of the Archaeological Institute of America.

### Monday, Nov. 5

**Noon. Dept. of Pharmacology Lecture**, "Neuronal Control of Distribution and Stability of Acetylcholine Receptors on Skeletal Muscle Fibers," Terje Lomo, prof., The Institute of Neurophysiology, U. of Oslo, Norway. Pharmacology Library, 3912 South Bldg.

**4 p.m. Dept. of Music Lecture**, "20th-century Polish Music," Andrzej Dutkiewicz, U. of Kansas, Lawrence. Blewett B, Room 8.

**4 p.m. Dept. of Biology Seminar**, "Genes, Hormones and Insect Metamorphosis," Judy Willis, Dept. of Entomology, U. of Illinois. Room 322 Rebstock Hall.

**4 p.m. Center for the Study of Islamic Societies and The Committee on Religious Studies Colloquium**, "New Directions in Study of Islamic Religion," James Winston Morris, assoc. prof. of Islamic Studies, Dept. of Religion, Oberlin College. Hurst Lounge, Duncker Hall.

**8 p.m. School of Architecture Charles Eames Memorial Lecture**, "Landscape Aphorisms," Antoine Predock, principal of Antoine Predock Architects, Albuquerque. Steinberg Hall Aud. For info., call 889-6200.

### Tuesday, Nov. 6

**4 p.m. Program in Jewish and Near Eastern Studies, Dept. of Classics and Dept. of Art History and Archaeology Lecture**, "Near

Eastern Roots of Early Greek Civilization," Michael C. Astour, prof. emeritus of historical studies, Southern Illinois U. at Edwardsville. Hurst Lounge, Duncker Hall. For more info., call 726-4164.

**4 p.m. Dept. of Earth and Planetary Sciences Lecture**, "Experimental Studies of Chemical Weathering on Venus: Implications for Venus Geology," Bruce Fegley, Max-Planck-Institut Fur Chemie, Mainz, Germany. Room 102 Wilson Hall. For more info., call 726-7587.

**6 p.m. Dept. of Germanic Languages & Literatures Lecture**, "Weil die Farce soeben von vorne beginnt...", Dramenschlusse bei Max Frisch," Peter Hasubek, prof. of German, U. of Goettingen. Hurst Lounge, Duncker Hall.

### Wednesday, Nov. 7

**11 a.m. Assembly Series Presents Holocaust Memorial Lecture**, "Beyond Genocide—Learning From the Nazi Doctors," Robert Jay Lifton, Distinguished Professor of Psychiatry and Psychology, John Jay College of Criminal Justice. Graham Chapel. For more info., call 889-4620.

**11 a.m. Dept. of Engineering and Policy and Center for the Study of American Business Seminar**, "Evaluating Environmental Control Technology Designs," Edward S. Rubin, Alumni Prof. of Environmental Engineering & Science, Dept. of Engineering & Public Policy, Carnegie Mellon U. Room 101 Lopata Hall.

**Noon. Dept. of Cell Biology and Physiology Seminar**, "Molecular Biology of the B-Subunit of the HK-ATPase," Michael Ruben, U. of California, Los Angeles. Cell Biology & Physiology Library, 423 McDonnell Medical Sciences Bldg. For more info., call 362-7463.

**4 p.m. Dept. of Physics Colloquium**, "The Quantum Hall Effect Without Tears," Douglass Stone, Yale U. Room 204 Crow Hall.

**4:15 p.m. Dept. of Biochemistry and Molecular Biophysics Seminar**, "Gelation and Elasticity of Complex Polymer Networks: Models for Calculating the Viscoelastic Properties of Cytosol," Ralph Nossal, National Institutes of Health. Erlanger Aud., 1st Fl., McDonnell Medical Sciences Bldg.

### Thursday, Nov. 8

**1:10 p.m. George Warren Brown School of Social Work Fall Lecture Series**, "New State Initiatives," Gary J. Stangler, director, Missouri Dept. of Social Services. Brown Hall Lounge. For more info., call 889-6606.

**4 p.m. Dept. of Earth and Planetary Sciences Colloquium**, "Origin of the Moon," Jay Melosh, prof., U. of Arizona. Room 102 Wilson Hall. For more info., call 726-7587.

**4 p.m. Dept. of Anthropology Colloquium**, "Origins of Old World Monkeys," Brenda Benefit, Southern Illinois University at Carbondale. Room 101 McMillan Hall.

**4 p.m. Asian Studies East Asian Colloquium Series**, "Christianity in Chinese Context: Links to the Chinese Religious Sectarian Tradition," Daniel Bays, prof., Dept. of History, U. of Kansas. Room 30 January Hall.

### Friday, Nov. 9

**11 a.m. Dept. of Computer Science Seminar**, "Reasoning With Defaults: A Unifying View," Hector Geffner, IBM T.J. Watson Research Center. Room 509C Bryan Hall.

**Noon. Dept. of Cell Biology and Physiology Seminar**, "Four Independent Classes of Potassium Channel Genes Are Conserved in Flies, Mice and Men," Lawrence Salkoff, WU Depts. of Anatomy and Neurobiology and of Genetics. Cell Biology and Physiology Library, 4th Fl., McDonnell Medical Sciences Bldg.

**1:30 p.m. Dept. of Classics Illustrated Lecture**, "The Silk Road Revisited: Sinkiang and the Chinese Section, 200 BC-500 AD," Kevin Herbert, chair and prof., Dept. of Classics. Hurst Lounge, Duncker Hall. For info., call 889-5123.

## PERFORMANCES

### Friday, Nov. 2

**8 p.m. Edison Theatre "Stage Left" Series Presents An Evening With Lucas Hoving**, "Growing Up in Public." (Also Sat., Nov. 3, at 8 p.m.) Drama Studio, Room 208, Mallinckrodt Center. Cost: \$10 for general public; \$8 for senior citizens and WU faculty and staff; and \$6 for students. For more info., call 889-6543.

### Thursday, Nov. 8

**6:30 p.m. Pre-opening Performance of "A Flea in Her Ear"** for William Greenleaf Eliot Society members only. Cocktails and hors d'oeuvres in Women's Bldg. Lounge. Play begins at 8 p.m. in Edison Theatre. For reservations to this complimentary event, Eliot Society members should call 889-5219.

### Friday, Nov. 9

**8 p.m. Performing Arts Dept. Presents "A Flea in Her Ear,"** a Georges Feydeau classic farce. (Also at 8 p.m. on Nov. 10, 16 and 17,

and at 2 p.m. Nov. 11 and 18.) Edison Theatre. Cost: \$7 for general public; and \$5 for senior citizens, students and WU faculty and staff. For ticket info., call 889-6543.

## MUSIC

### Friday, Nov. 2

**8 p.m. Dept. of Music and Sangeetha Present a Sitar Concert**, featuring Shahid Parvez Khan on sitar and Shri Vijay Ghatge on tabla. Center of Contemporary Arts, 524 Trinity Ave. Cost: Free to Sangeetha members; \$15 non-members; and \$8 senior citizens and students. For more info., call 889-5574.

### Sunday, Nov. 4

**2:30 p.m. Dept. of Music Presents WU Symphony Orchestra** with Dan Presgrave conducting. Concert will feature Beethoven's "Symphony No. 5," von Weber's "Oberon Overture," and Khachaturian's "Masquerade Suite." St. Louis Art Museum Theatre in Forest Park. Free. For more info., call 889-5574.

### Tuesday, Nov. 6

**8 p.m. Dept. of Music Presents a Piano Recital** by Andrzej Dutkiewicz, U. of Kansas, Lawrence. Steinberg Hall Aud. Free. For more info., call 889-5574.

## EXHIBITIONS

**"Faculty Art Show,"** showcasing paintings and prints by Dan Gualdoni, WU lecturer. Also includes work from faculty in the School of Fine Arts, School of Architecture and Dept. of Art History and Archaeology. Through Dec. 2. Gallery of Art, upper gallery, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

**"Bookness: Artists' Explorations of Form and Content,"** including "artists' books" by John Cage, Andy Warhol and local artist Leila Daw. Gallery of Art, Steinberg Hall, lower gallery. Through Dec. 2. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

**"Hemingway and Popular Culture."** Through Jan. 15, 1991. Special Collections, Level 5, Olin Library. 8:30 a.m. to 5 p.m. weekdays.

**"Caliban's New Master:** The Emergence of Medicine in Early Modern Europe (1450-1700)." Through Jan. 3, 1991. Rare Books Division, Seventh Floor, School of Medicine Library, 660 S. Euclid Ave. For more info., call 362-4234.

## FILMS

### Thursday, Nov. 1

**7 and 9:30 p.m. Filmboard Foreign Series**, "Ugetsu." \$3. Room 100 Brown Hall.

### Friday, Nov. 2

**7 and 9:30 p.m. Filmboard Feature Series**, "Aliens." (Also Sat., Nov. 3, same times, and Sun., Nov. 4, 7 p.m.) \$3. Room 100 Brown Hall.

**Midnight. Filmboard Midnight Series**, "Full Metal Jacket." (Also Sat., Nov. 3, same time, and Sun., Nov. 4, at 9:30 p.m.) \$3. Room 100 Brown Hall. On Fri. and Sat., both films can be seen for a double feature price of \$4; both Sun. films can be seen for \$4.

### Monday, Nov. 5

**6:30 and 9:30 p.m. Filmboard Classic Series**, "Lolita." (Also Tues., Nov. 6, same times.) \$3. Room 100 Brown Hall.

### Wednesday, Nov. 7

**6 and 9:30 p.m. Filmboard Foreign Series**, "Andrei Rublev." (Also Thurs., Nov. 8, same times.) \$3. Room 100 Brown Hall.

### Friday, Nov. 9

**7 and 9:30 p.m. Filmboard Feature Series**, "Do the Right Thing." (Also on Sat., Nov. 10, same times, and Sun., Nov. 11, at 7 p.m.) \$3. Room 100 Brown Hall.

**Midnight. Filmboard Midnight Series**, "Enter the Dragon." (Also on Sat., Nov. 10, same time, and Sun., Nov. 11, at 9:30 p.m.) \$3. Room 100 Brown Hall. On Fri. and Sat., both the 9:30 p.m. and midnight films can be seen for a double feature price of \$4; both Sun. films can be seen for \$4.

## SPORTS

### Friday, Nov. 2

**7 p.m. Men and Women's Swimming and Diving.** WU vs. Illinois Wesleyan U. Millstone Pool.

### Saturday, Nov. 3

**11 a.m. Men and Women's Swimming and Diving.** WU Relays. Millstone Pool.

### Saturday, Nov. 10

**8 a.m.-6 p.m. WU Racquetball Club Holds Racquetball Tournament.** Doubles and mixed doubles matches. Entry fee: \$17, includes lunch. Submit fee and entry form at the Athletic Complex intramural office. Entry deadline: Nov. 5. For first match starting time, call 889-5220 after Nov. 8. Athletic Complex.

**1 p.m. Men and Women's Swimming and Diving.** WU vs. Millikin U. Millstone Pool.

## MISCELLANY

### Friday, Nov. 2

**5:45 p.m. Hillel Services;** 6:30 p.m. Shabbat Dinner; 8:30 p.m. Program: "Talk to Us." 6300 Forsyth Blvd. Cost of dinner: \$6 members; \$8,50 non-members. For more info., call 726-6177.

**7:30 p.m. Black Arts and Sciences Festival Talent Show**, "A Showcase of Black Talent," featuring members of the Association of Black Students presenting dances, songs and recitations. The Gargoyle, Mallinckrodt Center. For more info., call 889-5970 or 889-5690.

### Saturday, Nov. 3

**1 p.m. Stix International House Chemical and Engine Laboratory Tour**, Ethyl Petroleum Additives Corp. Admission and transportation free. Meet at 6470 Forsyth Blvd. For more info., call 889-5910.

### Thursday, Nov. 8

**7 p.m. Pre-Medical Club at WU Presents an Introduction to Medical School Seminar.** Room 215 Rebstock Hall. For more info., call 725-9448.

### Friday, Nov. 9

**Noon. WU Woman's Club Fall Luncheon**, "Fashion Show of Flowers" film. Spinks Pavilion in Missouri Botanical Garden. Cost: \$15 for members and guests. For reservations, call 265-7793 by Nov. 2.

### Saturday, Nov. 10

**8:30 a.m.-4 p.m. John M. Olin School of Business Seminar**, "The Nineties: Managing Diversity — The Changing Nature of the Workforce and Its Impact on You." Simon Hall. Cost: \$15 for students; \$25 for corporate attendees. To register or for more info., call 889-6320.

## Calendar Deadline

The deadline to submit items for the Nov. 8-17 calendar of the Washington University Record is Nov. 2. 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 calendar editor, Box 1070, or by electronic mail to p72245AC at WUVMC.

## Social services director to discuss new initiatives

"New State Initiatives" will be discussed by Gary J. Stangler, director of the Missouri Department of Social Services, during a lecture at 1:10 p.m. Nov. 8 in Brown Hall lounge.

His talk, free and open to the public, is part of the fall lecture series sponsored by the George Warren Brown School of Social Work.

Stangler will discuss what he calls "the chronic deterioration of the foster-care system" and what needs to be done in the 1990s to improve child services. He also will discuss the escalating costs of indigent health care, as well as his department's plans for implementing the Family Support Act of 1988.

Stangler has been director of the Department of Social Services (DSS) since his appointment by Gov. John Ashcroft in May 1989. The DSS, with a budget of \$1.2 billion and a staff of some 7,000, is the umbrella agency consisting of the divisions of Aging, Child Support Enforcement, Family Services, Medical Services and Youth Services, as well as four support divisions. Nearly 850,000 Missourians receive help through the DSS.

For more information on the lecture series, call 889-6606.