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## Washington University Record, April 29, 1982

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# Washington University Record

Vol. 7, No. 29

April 29, 1982



**Junior Lisa Jennings** provides the power as senior Julie Florence, in the stern, pilots WU's 226-pound concrete craft in civil engineering students' annual concrete canoe race at Forest Park April 18, sponsored by the American Concrete Institute and the St. Louis section of the American Society of Civil Engineers. The women's team won its race, beating teams from the University of Missouri-Rolla and the Concrete Masons of St. Louis (background, above). Other WU contestants did not fare as well. Story on page 3.

## PAA presents sophisticated Sondheim hit, "Company," April 30-May 2 at Edison

*Company*, Stephen Sondheim's four-time Tony Award-winning musical, with book by George Furth, will be presented by the Performing Arts Area at 8 p.m. April 30-May 2 in Edison Theatre.

C. J. Zander, visiting assistant professor of drama, will direct the largely student-cast show, which is a satirical guide to the joys and pains of contemporary married life.

The show revolves around Robert, a bachelor with three girlfriends, and his relationships with five married couples. Worried about his remaining single and "lonely," each couple tries to expose Robert to the joys of being married. The antics of the matchmakers, however, prove that not all marriages are made in heaven.

"Stephen Sondheim has never written a more sophisticated, more pertinent, or more melodious score," wrote Walter Kerr in *The New York Times*, "and the lyrics are every bit as good." Sondheim's keen wit can be found in such memorable songs as "Another Hundred People," "The Ladies Who Lunch" and "Side by Side by Side." *Company* is a New York show and displays all the excitement and electricity of living in midtown Manhattan. Zander describes it as one of the first "concept" musicals because it deals with its subject in an adult, realistic manner.

The cast features Daniel Gipple in the role of Robert. The wives are played by Debbie Berman, Valerie Sandberg, Amy Silverberg, Rebecca Stark and Lesley Tucker. Richard Dandrea, Allen

Gardner, Andy Langton, Scott Scudder and Keith Slobodien play the husbands. Lisa Goldberg, Suzanne Grace and Janet Metz portray the girlfriends.

From the University faculty, Jack Brown serves as musical director,

Suzanne Grace as choreographer, David Kruger as set designer, and Nancy Kay Webb as costumer. Lighting is designed by David Stevens, a senior drama major.

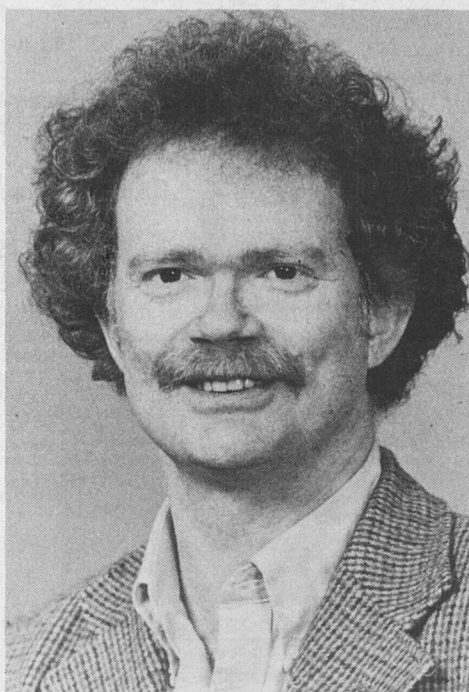
Tickets are \$5. The Edison Theatre box office number is 889-6543.

## WU biologist Johnson wins Guggenheim; will study genetic factors in mutation

George B. Johnson, professor of biology and professor of genetics at the WU School of Medicine, has been granted a Guggenheim Fellowship for 1982. The fellowships are awarded by the John Simon Guggenheim Memorial Foundation to individuals on the basis of their demonstrated accomplishments in the past and strong promise for the future in science, scholarship and the arts. This year, a total of \$5,070,000 was awarded to 277 scholars, scientists and artists from 3,200 applicants in the foundation's 58th annual competition.

Johnson will use his Guggenheim Fellowship to study genetic factors influencing mutation rates in fruit flies. An evolutionary biologist, he is interested in the relationship between ecology and population genetics.

Johnson received his PhD in biology from Stanford University in 1972 and joined the WU faculty shortly thereafter.



George B. Johnson

## SPIM scholar wins Marshall Scholarship

Craig T. Basson, an honors student at WU, has won a Marshall Scholarship providing two and possibly three years of all-expenses-paid study at a British university of his choice.

Following graduation from WU this May, he will study for a master's degree in physiology at Lincoln College, Oxford.

As an expression of British appreciation for the help Europe has received under the U.S. Marshall Plan, 30 scholarships are given each year to American students who have distinguished themselves by scholastic achievement and other activities, and who "display potential to make significant contributions to their society."

Approximately 1000 college students apply for the scholarships each year. The awards are made initially for two years, but in some instances are extended to three. They meet all the costs of tuition and maintenance in Britain, with "a little left over" to encourage wider travel during vacations.

Basson, valedictorian at Roslyn High School, Roslyn Heights, N.Y., spent summer vacations during high school studying anatomy on a research fellowship at the University of Iowa; taking a preceptorship in surgery with Dr. Michael F. DeBakey at Baylor College of Medicine, Houston, Tex.; studying inorganic chemistry at Harvard; and aiding in oncology research with Garth Nicolson at M.D. Anderson Hospital at the University of Texas.

He enrolled at WU in the Scholars Program in Medicine (SPIM), where incoming students are guaranteed admission to the WU School of Medicine, as long as a certain level of undergraduate work is maintained. Free to diversify his premedical studies, Basson will graduate with a major in French as well as in biology. He is completing his undergraduate studies in three years instead of four, having won class honors every year.

Elected last year to associate membership in Sigma Xi, the national science honorary, Basson was promoted to full membership this spring.

While studying at Oxford, he plans to complete work on a master's degree in biology from WU. Upon his return he will enter the School of Medicine.

Basson's undergraduate honors thesis is on attitudes toward science and medicine in 18th-century French drama. He is editor of *Subject to Change*, a WU student quarterly magazine.



**Ghislaine Crozaz**, WU associate professor of earth and planetary sciences, at the Allan Hills campsite, Antarctica, during a U.S. expedition to collect meteorites last January.

## Researchers net record catch of meteorites at earth's pole

To see a shooting star is supposed to be lucky. To find one is even luckier. Most of the millions of meteorites that fall to earth either disintegrate, sink forever beneath the sea, or become buried by the earth's geology.

Antarctica is one place where meteorites abound. WU geologist Ghislaine Crozaz was a member of the five-person team that executed America's latest and most successful trip to prospect meteorites in Antarctica. During a 33-day bivouac last December and January, the group combed the pristine wilderness on the New Zealand side of Antarctica and bagged 314 new specimens — a U.S. record and the third most successful one-season effort by any research team.

The team consisted of Crozaz; group leader William Cassidy of the University of Pittsburgh; Ursula Marvin and Robert Fudali, both of the Smithsonian Institution; and mountaineer John Schutt of Spokane, Wash.

Last December 3, the team arrived at McMurdo Station, a frozen frontier town on the coastal side of the Transantarctic Mountain Range. Two weeks of survival training prepared them for the journey by helicopter across the mountains to a wilderness campsite near the Allan Hills. Here, in areas of "blue ice," meteorites are plentiful.

Blue ice is the element that makes meteorite preservation in large quantities possible. Normally, glacial ice creeps from Antarctica's frozen outback to the sea, then floats away as icebergs. When mountain ranges block its path, however, a glacier buckles, forcing ancient layers upward. Blizzard-force winds scour the hard ice clean. The result is that charred, black meteorites become exposed and stand out starkly against the blue surface.

The group used five snowmobiles for transportation and fanned outward from the base camp in grid formations, looking for blue ice. When team members found meteorites, they sealed them in teflon bags, gave each a collection number, and stored them in a special box. "We collected them just like the astronauts collected lunar samples," Crozaz said.

The meteorites were kept frozen to prevent terrestrial contamination throughout the long journey to Houston's Johnson Space Center, where technicians will thaw the meteorites in a nitrogen atmosphere — a treatment also used with lunar samples.

The interest in meteorites relates to their ancient lineage. One theory about meteorites is that they are refugees from the asteroid belt, a band of space junk formed between Mars and Jupiter at the beginning of our solar system. Most of

these bodies, bonded by the gravitational pull of the sun, formed the planets. Inside the asteroid belt, though, the immense gravity of Jupiter kept the heavenly bodies churning separately in orbit. Occasionally they collide, slinging meteorites across the earth's path.

This year's expedition collected four kinds of meteorites. The vast majority were "ordinary stony chondrites," Crozaz said, believed to be pieces of asteroids. Stony chondrites were formed about 4.5 billion years ago and are considered the most primitive rocks available for study.

The other specimens found include "achondrites," which probably came from asteroids large enough, some 4.6 billion years ago, to produce lava; and meteorites composed entirely of iron, believed to have formed in an asteroid's core. The fourth type, "carbonaceous chondrite," contains amino acids of nonbiological origin, and probably originated in the solar nebula — the cloud of dust and gas from which the planets were formed.

Crozaz is studying two aspects of meteorites. She examines their thermal history for clues to their origins. And she studies the cosmic rays that meteorites have absorbed to see how these are different from the cosmic rays the earth receives today.

Although the expedition arrived in Antarctica at the height of its summer tourist season, temperatures at the base camp hovered near zero degrees Fahrenheit, and the wind sometimes reached 50 m.p.h. Crozaz soon noticed her fingers and toes splitting open from the cold, and bad weather forced the researchers to spend one-third of the time in their tents. But, to Crozaz, the pain, cold and boredom were worth it. "Sometimes, you wonder why you put yourself in such a situation," she said. "And then afterwards, everything is forgotten."

Washington University Record (USPS 600-430), Volume 7, Number 29, April 29, 1982. Published weekly during the school year, except school holidays, at the Office of News and Information, campus box 1142, Washington University, Lindell and Skinker, St. Louis, Mo. 63130. Second-Class Postage paid at St. Louis, Mo. Postmaster please forward change of address to Campus Box 1142, Washington University, St. Louis, Mo. 63130.

Editor: Charlotte Boman  
(Ext. 5251)  
Calendar Editor:  
Susan Kesling  
(Ext. 5254)

## Seed library helps to reveal mysteries of ancient cultures

The smallest things from nature can tell the story of a civilization that flourished centuries ago. Objects, such as seeds, can reveal the mysteries of the past and give some direction for the future, says David L. Browman, associate professor of anthropology and director of the Archaeo-Botanical Laboratory in McMillan Hall.

The laboratory, founded in 1974, houses a collection of over 500 varieties of seeds that are used to help identify seeds found at archaeological digs. Durable because they are carbonized, the seeds are the most common tools for identifying the diet, economy and level of domesticity of early peoples.

Most of the seeds on file in the laboratory are common to North, South and Middle America. Many WU anthropology students, however, have been bringing seeds from other areas of the world, such as Egypt, to expand the collection.

Seeds can say many things about a culture that other artifacts cannot. For example, when seeds of exotic plants are discovered in an area, they suggest trade between the peoples of that area and of the plant's native region. Seeds have also helped anthropologists determine a society's development. Archaeological digs in the eastern United States dating from 800 A.D. found little trace of corn. Two hundred years later, 30 to 60 percent of the diet of Indians living in that area was based on corn, indicating a change from hunting and gathering to cultivation of crops.

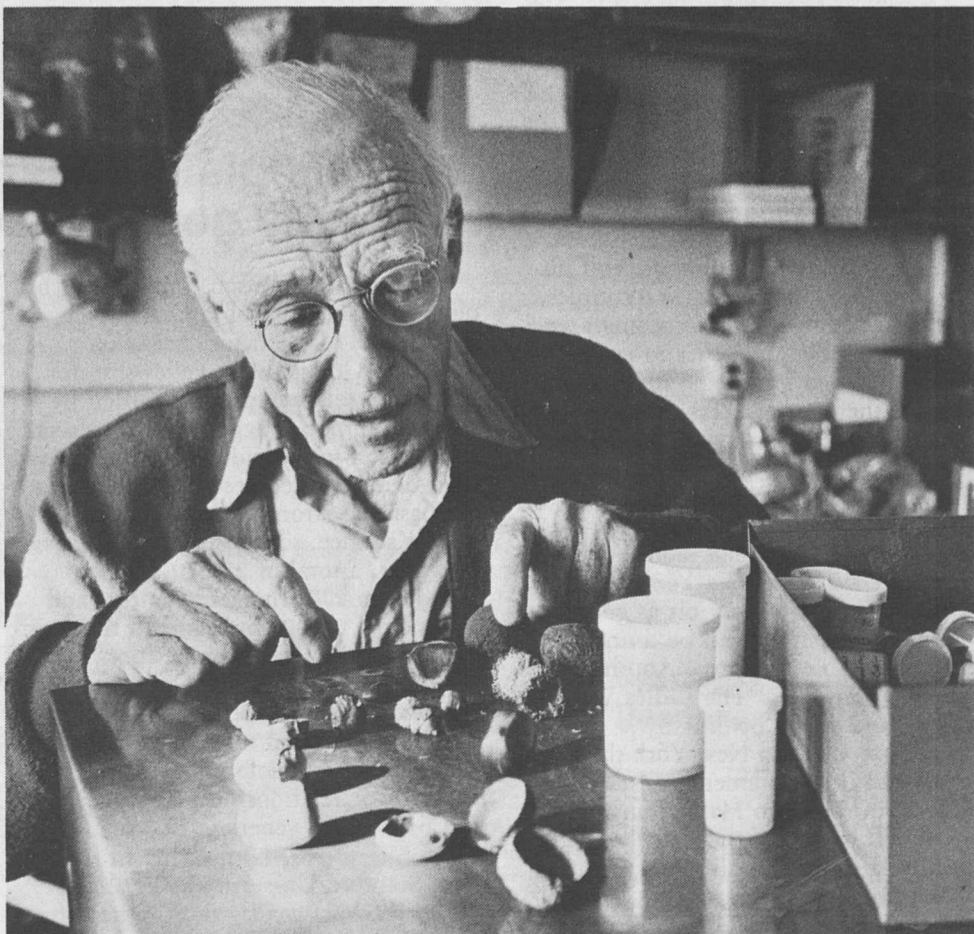
Measuring the different varieties of corn and beans that make up the largest

number of seeds in the collection is the job of Leonard Blake. Blake, an amateur archaeologist who retired as a security analyst from the St. Louis Union Trust Co. 17 years ago, works part-time in the laboratory measuring seeds and corn cobs to determine their race and origin. Blake has worked with archaeologists on over 400 sites in the Midwest.

Blake began his avocation over 20 years ago, measuring corn under the direction of Hugh Cutler at the Missouri Botanical Garden. Now, he divides his time between WU's archaeo-botanical laboratory and the Museum of Science and Natural History on Big Bend Blvd., where he is a volunteer cataloger.

Two other laboratories are used by WU anthropologists and archaeologists. The Laboratory of Primate Biology, directed by Robert W. Sussman, associate professor of anthropology, is used to study bones and tissues of primates. At the Laboratory of Dental Anthropology, directed by Steven Molnar, professor of anthropology, dental development and wear patterns are examined. All three anthropology labs use small elements — seeds, bits of bones and teeth — to link the present with the past.

These ancient minutiae can also help solve present problems like world hunger. Plants regarded as weeds today were food to the Indians centuries ago, Browman said. Since many of these plants grow in difficult soils and climates, they could be used in Third World countries where other crops have failed.



**Leonard Blake**, a longtime volunteer in the Department of Anthropology's Archaeo-Botanical Laboratory, shows some of the more than 500 seeds on file there, which are used to identify seeds found at archaeological sites.



Senior Michael Nobs (left) and junior Steve Bresina developed a slight "hydraulic problem" during their turn in the WU canoe and were forced to abandon ship. A concrete deflector to eliminate spray was added to the bow before a regional race April 24 at Peoria, Ill.

## Women paddle to concrete win in annual engineers' canoe race

The race was to the swift, and the glory to the women when WU civil engineering students joined battle with the University of Missouri at Rolla and the Concrete Masons of St. Louis in a concrete canoe contest April 18.

In keeping with a now seven-year-old tradition, the WU student chapter of the American Society of Civil Engineers designed and constructed a 16-foot-long concrete canoe for a series of quarter-mile races at a Forest Park lake.

WU won first place in the women's division, plus a citation for best design and construction. In the faculty and junior men's division, WU placed second, and in the senior men's division, third, for the overall second place award. The Concrete Masons won first place overall.

WU's 226-pound canoe, built with special lightweight aggregates and air entraining additives, developed a slight hydraulic problem during one of the men's races, reported senior Michael Nobs.

"Water sprayed over the front of the canoe and we went under, but we were able to bail out," he said. "We're adding a concrete deflector to the front to eliminate the spray." The new deflector

## Two students selected for Crossroads Africa

Erie Sampson, a senior in the College of Arts and Sciences, and Gerald LaMotte, a graduate student in the School of Social Work, have been selected to take part in the Operation Crossroads Africa program this summer.

The students will work in one or several rural African development projects. They might be assigned to build schools, health clinics or community centers or work in agricultural and veterinary projects.

WU students have participated for the last 13 years in the program, which is based in New York City and was the model for the Peace Corps. The 25-year-old program has sent more than 5,200 American students to 34 English- and French-speaking African countries.

The two students are currently raising funds to finance their trip. Donations may be sent in the form of a check to the Black Studies Program, Box 5690, made payable to WU Operation Crossroads Africa, Inc.

## Economics department hosts conference

WU will host the spring 1982 Midwest Mathematical Economics meeting Friday, April 30, to Sunday, May 2, in Eliot Hall. About 40 persons are expected to attend.

Wilhelm Neufeind and J. Trout Rader III, both WU professors of economics, are organizing the meeting, which is sponsored by the WU Department of Economics.

The only WU speaker will be Stephen Shepard, a graduate student in economics.

In addition to the mathematical economics subjects, two sessions on international trade will be held.

was tested at a regional race held April 24 in Peoria, Ill. Twelve midwest colleges participated.

The annual races are sponsored by the American Concrete Institute and locally, by the St. Louis section of the American Society of Civil Engineers (ASCE). Helping WU students to cover the expense of construction materials this year were the R. G. Ross Construction Co., the U.S. Paint & Lacquer Co., the Clayton Corp., McFab Co., Carboline Corp., the parent chapter of ASCE and several campus organizations.

In 1981, the WU team placed first in nearly every category to win the overall trophy. As with last year's heavyweight champion, this year's concrete canoe will be donated to Channel 9 for their fund-raising auction.

## Colton named head of urban studies

David L. Colton, director of the Center for the Study of Law in Education, has been named chairman of the Urban Studies program for the 1982-83 academic year. The appointment is effective Sept. 1.

Colton, who joined the WU faculty in 1966, succeeds James T. Little, who will serve for the next two academic years as visiting associate professor of economics and finance at WU's business school.

A former director of the Graduate Institute of Education, Colton has received a grant from the Danforth Foundation to continue his studies of policy options in the area of school desegregation.

## Postdoctoral grants available

An array of postdoctoral fellowship opportunities abroad have been announced by the Office of International Studies. Application information is available at many departmental offices and at the Office of International Studies, room 201, Stix House. Proposals are due by late June or July 1.

Approximately 12 long-term (six to 10 months) and nine short-term (two to three months) fellowships in India, offering monthly stipends of \$1,200 to \$1,500 and travel and book allowances, are being offered through the Council for International Exchange of Scholars, Washington, D.C.

The American Institute of Indian Studies (AIIS), Chicago, is also seeking applications from researchers and teachers at U.S. institutions for three to 10 months of study in 1983-1984.

Some 15 fellowships will be available for the coming academic year in world order studies. Two kinds of fellowships will be awarded; grants ranging from \$500 to \$2,000 per course, and funds to finance projects from \$1,000 to \$4,000. These grants are sponsored by the Institute for World Order, New York.

## Campus Notes

Noor Gillani, associate professor of mechanical engineering and a member of the WU Center for Air Pollution Impact and Trend Analysis (CAPITA), has received a three-year, \$400,000 grant from the Environmental Protection Agency. The grant, "Management and Analysis of Data of EPA-Sponsored Field Studies," is a sequel to a similar grant about to expire. Gillani, who established the Special Studies Data Center at CAPITA, has participated in a number of EPA studies of power plant and urban plumes, including the transport and chemical transformation of emissions from these sources, as well as the phenomenon of multi-state haziness in the eastern United States.

Victor T. Le Vine, professor of political science and currently visiting Fulbright professor at the University of Yaounde, Cameroon, lectured in Gabon and the Congo last month as part of the U.S. Communications Agency's "Ampart" program, in which American scholars are asked to speak on their specialties in various African countries. Le Vine visited schools, universities, cultural centers, and research institutions, speaking on aspects of American foreign policy in Africa and elsewhere. It was his second tour under USICA auspices; in 1981 he visited Paris, the Ivory Coast, Togo, Nigeria, Ghana, and Zaire. In May, he will also lecture in Kinshasa, Zaire, Le Vine will return to the WU campus this fall.

Jane Loevinger, professor of psychology, was an invited participant in the Henry A. Murray Lectures in Personality, presented by Michigan State University April 16 and 17. These lectures are designed to provide leading psychologists with a forum at which to address major issues in the science of personality.



Three WU graphics illustration majors are among 172 U.S. college students whose works of art have been chosen for a display in the 1982 Student Scholarship Exhibition by the Society of Illustrators. All of the winning illustrations are on view through May 6 at The Museum of American Illustration, New York City. Two students each received a \$200 award. They are junior Linda Thomas, whose illustration, "The Pierre, New York, N.Y.," is shown above left, and senior Christine M. Foederer, who drew the portrait of rock star Mick Jagger. The other WU student represented in the show is senior Euripides ("Rip") P. Kastaris.

"The Architectural Heritage of St. Louis: 1803-1891" exhibition, which was organized by Lawrence Lowic, assistant professor in the Department of Art and Archaeology, and originally displayed in the WU Gallery of Art, is on view at the St. Louis Mercantile Library, 510 Locust St. through June 18. Lowic, who also wrote the catalogue for this show, will serve as guest curator. The Mercantile display is sponsored by the National Endowment for the Arts, the Missouri Arts Council, and WU's School of Architecture, Department of Art and Archaeology, and Gallery of Art. Viewing hours are 9 a.m. to 5 p.m., weekdays.

Jon P. Rogers, a graduate student in mechanical engineering, is the fourth WU student since 1976 to be named a national winner of the Robert L. Lichten Award. The award is given annually by the American Helicopter Society for the best technical paper presented by a new author. This year, for the first time, the competition resulted in a deadlock with two co-winners. The other award recipient is from the NASA Ames Research Laboratory.

Rogers' winning paper, "Application of an Analytic Stall Model to Dynamic Analysis of Rotor Blades," is a pioneering effort that uses mathematical theories to describe the forces and motions of a helicopter rotor blade. He will receive a cash prize of \$250 and an expense-paid trip to the society's annual meeting in Los Angeles.

The Lichten Award was established in 1976 in memory of Robert Lichten, a noted helicopter engineer. Of the eight national winners in the history of the award, four have been WU students: Rogers, 1982; Shyi-Yaung Chen, 1981; Ivo Zvolanek, 1979; and Debashi Banerjee, 1977.



# Calendar

April 29-May 8

## Thursday, April 29

11 a.m. Technology and Human Affairs Seminar, "A Multi-Objective Framework for Analyzing Environmental Regulatory Policies," David Lincoln, asst. prof. of engineering and public policy, Carnegie-Mellon U. 104 Lopata.

2:15 p.m. Department of Mechanical Engineering Seminar, "Acid Rain: Is the Sky Falling Down or Just Turning Sour," R.B. Husar, WU prof. of mechanical engineering and director of CAPITA. 100 Cupples II.

4 p.m. Department of History Lecture with Quentin Skinner, WU Visiting Lewin Professor in the Humanities, discussing liberty. Hurst Lounge, Duncker.

4 p.m. Department of Physiology and Biophysics Vision Seminar, "Calcium Independent Release of Transmitters in the Toad Retina," E.A. Schwartz, dept. of pharmacological and physiological sciences, U. of Chicago. Physiology Lib., South Bldg., 4577 McKinley.

4 p.m. Cellular and Molecular Programs Lecture, "The Diatom Spindle: A Valuable Model for Studying Mitosis," Jeremy D. Pickett-Heaps, dept. of molecular, cellular and developmental biology, U. of Colo. Cori Aud., 4570 McKinley.

## Friday, April 30

12:30 p.m. McDonnell Laboratory for Psychical Research Lecture, "Special Topics in Parapsychological Research," Mark Shafer, WU research assoc. in physics. 117 Eads.

4 p.m. Immunology Research Seminar, "Molecular Basis for the Binding of the Third Complement Protein, C3," Robert P. Levine, WU prof. of genetics. Microbiology Lib., McDonnell Medical Sciences Bldg., 4570 McKinley.

4 p.m. Department of Chemistry Lecture, "Biomimetic Synthesis of Terpenes and Alkaloids: The Natural Way to Go," James D. White, dept. of chemistry, Ore. State U. 311 McMillen Lab.

## Saturday, May 1

9 a.m. Neural Sciences Program Lecture, "Early Stages in Visceral Innervation," Richard Bunge, WU prof. of anatomy and neurobiology. 928 McDonnell Medical Sciences Bldg., 4570 McKinley.

## Monday, May 3

Noon. WU School of Medicine Nephrology Conference, "New Horizons in Beta Blocker Therapy and the Significance of ISA," Walter M. Kirken-dall, prof. of medicine, and director, Hypertension Division, U. of Texas Medical School, Houston. West Pavilion Aud., Barnes Hosp. Plaza.

## Field research grants offered through Earthwatch

Grants ranging from \$5,000 to \$50,000 for field research projects in the humanities and sciences anywhere in the world have been announced by Earthwatch. Postdoctoral scholars of all nationalities who will employ qualified members of Earthwatch on their research teams are eligible. Letters of intent should be submitted as early as possible; full proposals are invited upon favorable review of proposals and are due no later than nine months before the project date. Decisions are made after both internal and external peer review. For information and applications, write the Center for Field Research, 10 Juniper Rd., Box 127, Belmont, Mass. 02178 or call (617) 489-3032.

## Tuesday, May 4

8 p.m. History of Medicine Club Lecture, "The Rise and Fall of the Home for Unwed Mothers," Morris Vogel, assoc. prof. of history, Temple U. Medical Library Annex, 615 S. Taylor.

## Wednesday, May 5

1:15 p.m. Division of Biostatistics Seminar, "Cross-Examination of Data," C. Radhakrishna Rao, University Professor, University of Pittsburgh and former director of the Indian Statistical Institute. Clopton Aud., Wohl Clinic Bldg., 4950 Audubon.

4 p.m. Department of Physics Colloquium, "Extra-Terrestrial Materials in Deep-Sea Sediments," D. Brownlee, U. of Wash., Seattle. 201 Crow.

## Thursday, May 6

10 a.m. Division of Biostatistics Seminar, "Reduction of Dimensionality for Inference and Graphical Display," C. Radhakrishna Rao, University Professor, University of Pittsburgh. Stix Room, Jewish Hosp., 217 S. Kingshighway. (Also 4 p.m., "Maximum Likelihood Estimation Under Constraints." 199 Cupples I.)

Noon. 30th Annual Alpha Omega Alpha Lecture, "The Prayer of Maimonides, 1982," Chancellor William H. Danforth. Carl V. Moore Aud., 660 S. Euclid.

4 p.m. Department of Pharmacology Lecture, "Directed Mutagenesis in the Analysis of a Viral Genome," Daniel Nathans, dept. of molecular biology and genetics, Johns Hopkins Univ. School of Medicine. Moore Aud., 660 S. Euclid.

4 p.m. Department of Philosophy Colloquium, "Alienation-Judaism as the Philosophical Issue Between Hegel and Kant," Steven Schwarzschild, WU prof. of philosophy. Hurst Lounge, Duncker.

## Friday, May 7

2 p.m. Department of Technology and Human Affairs Seminar, "Acid Rain: Issues and Options," Rudolf B. Husar, WU prof. of mechanical engineering. 104 Lopata.

6 and 8 p.m. School of Fine Arts and Saks Fifth Avenue Fashion Show, "The Fashion Collection '82," with speaker Kathy Olsen, fashion director, Saks Fifth Avenue, St. Louis, reviewing designs by School of Fine Arts undergraduates. Tickets are \$4 for 6 p.m. showing and \$7 for 8 p.m. showing, at the door. Bixby Hall Gallery.

6 and 8:30 p.m. WU Association Documentary Film Program, "Dateline: Fiji," with journalist Fran Reidelberger. Graham Chapel. Ticket information, call 889-5122.

## Exhibitions

"Master of Fine Arts Thesis Exhibition, Part II," a collection of works by WU School of Fine Arts students. Bixby Hall Gallery and Upper Gallery, WU Gallery of Art, Steinberg Hall. Bixby hours are 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. Gallery of Art hours are: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through May 9.

"Exploring Joseph Cornell's Visual Poetry," an exhibition and catalogue organized by WU undergraduates James Cohan and Arthur Greenberg. Sponsored by a National Endowment for the Humanities Youthgrant. Hours are 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through May 9. Print Gallery, WU Gallery of Art, Steinberg Hall.

"Fools Are My Theme, Let Satire Be My Song," a collection of classical satire from Aesop and Aristophanes to Mark Twain and Kurt Vonnegut. Includes a manuscript letter written by Mark Twain and a rare edition of Voltaire's *Candide*. Special Collections, fifth floor, Olin Library. 8:30 a.m.-5 p.m. weekdays. Through Aug. 31.

"Women Writers," a collection of monographs, photographs and writings by women. Third floor, Olin Library. 8:30 a.m.-5 p.m. weekdays. Through May 9.

## Music

### Thursday, April 29

8 p.m. Department of Music Graduate Student Recital, with Linda Presgrave, horn. Graham Chapel.

### Sunday, May 2

4 p.m. Department of Music Graduate Recital with Jim Harris, baroque flute and recorder. Graham Chapel.

### Tuesday, May 4

8 p.m. Department of Music Jazz Concert, directed by Kim M. Portnoy, WU instructor in music. Women's Bldg. Lounge.

### Wednesday, May 5

8 p.m. Department of Music Graduate Recital with John Sun, piano. Graham Chapel.

## Sports

### Saturday, May 1

1 p.m. Baseball Doubleheader, WU vs. DePauw U. Utz Field.

### Sunday, May 2

1 p.m. Baseball Doubleheader, WU vs. Rose-Hulman Inst. Utz Field.

## Performing Arts

### Friday, April 30

8 p.m. Performing Arts Area Production, *Company*, a musical dealing with friendship, love and survival in the big city. Music and lyrics by Stephen Sondheim, book by George Furth. Edison Theatre. Directed by WU visiting professor of drama, C. J. Zander. Tickets are \$5, available at Edison Theatre box office, 889-6543. (Also Sat., May 1 and Sun., May 2, 8 p.m., Edison).



WU's Edison Theatre and the Repertory Theatre of St. Louis will cosponsor the Waseda Little Theatre of Tokyo in a production of *The Trojan Women* at 8 p.m. Saturday, May 8, and Sunday, May 9, in Edison Theatre. The Waseda company, making its second U.S. tour, is directed by Tadashi Suzuki. Above, Kayoko Shiraishi, called "one of the leading actresses in the world" by the *Christian Science Monitor*, appears in a scene from this work, which is loosely based on a Japanese translation of Euripides' tragedy and combines drama, dance and mime. See *Performing Arts* for ticket information.

## Films

### Thursday, April 29

7:30 and 9:45 p.m. WU Filmboard Series, "Lion in Winter." \$2. Brown Hall Aud.

### Friday, April 30

7:30 and 9:30 p.m. WU Filmboard Series. (To be announced). \$2. Brown Hall Aud. (Also Sat., May 1, same times, Brown.)

### Friday, May 7

7:30 and 9 p.m. WU Filmboard Series, "Creature From the Black Lagoon" (3-D). \$2. (Also Sat., May 8, same times, Brown.)

### Saturday, May 8

8 p.m. Edison Theatre Series, *The Trojan Women*, performed by the Waseda Theatre Company of Tokyo. Directed by Tadashi Suzuki. Cosponsored by the Repertory Theatre of St. Louis. Edison Theatre. Tickets are \$6 for general admission, \$4.50 for WU students. Tickets are available at Edison theatre box office, 889-6543. (Also Sun., May 9, 8 p.m., Edison)

## Calendar Deadline

The deadline to submit items for the calendar period of May 13-22 is April 29. 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 name and identification and the title of the event. Those submitting items, please note name and telephone number. Address items to Susan Kesling, calendar editor, Box 1142.

Indexed