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WASHINGTON UNIVERSITY IN ST. LOUIS

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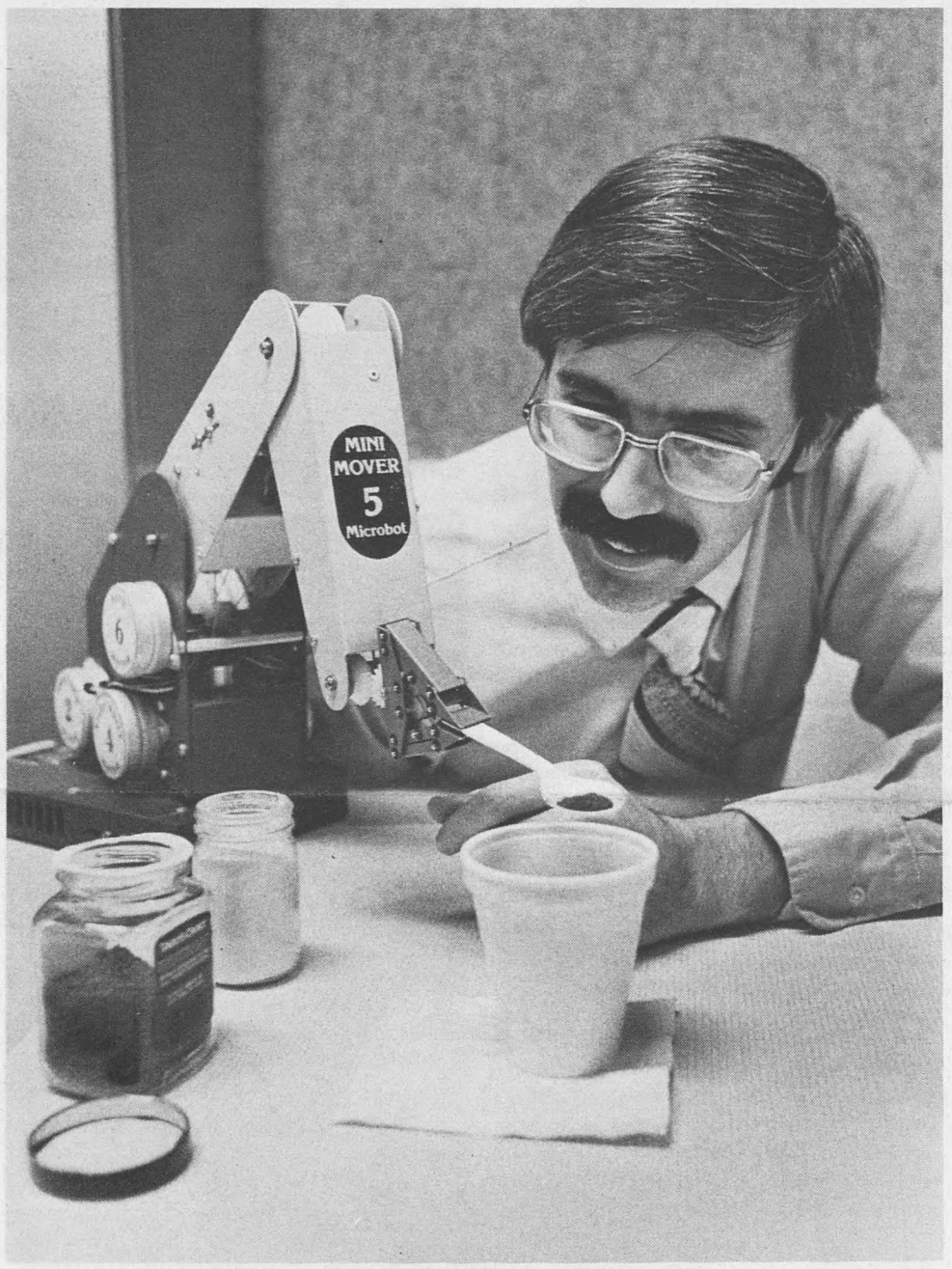

Cream and sugar? No problem for this coffee-making robot, part of an experiment designed by L. Andrew Oldroyd (above), assistant professor of computer science, to see how robots might be used as aids for the disabled.

Experimental robot may serve as helping hand for the disabled

Fingers, hands, arms, feet — imagine facing the day without them.

Even simple routines like combing your hair, brushing your teeth, and brewing that first cup of coffee would be impossible. Yet that is the situation encountered by thousands of paralyzed and otherwise handicapped people who have lost the use of their limbs. It may not be long, though, before they gain a certain degree of independence in the form of a robot.

A computerized companion as nimble and quick-witted as R_2D_2 is still years away. But L. Andrew Oldroyd, WU assistant professor of computer science, is programming a 10-pound mini-robot to serve as a helping hand for the disabled. With funds from the Biomedical Research Support Grant Program of the National Institutes of Health, he is experimenting with a computer-controlled mechanical arm. When attached to a countertop or wheelchair, the arm should be able to perform such household chores as making coffee, stirring soup, or even frying eggs.

"A lot of the fundamental research in robotics has already been done," Oldroyd said. "What's needed now is the development of research concepts to the point of practical use."

Robotic arms, he points out, are not a new idea. Originally called teleoperator systems or man amplifiers, they date back nearly 40 years when they were developed to handle radioactive materials at a distance. Now, they also aid in the manufacturing industry as well as in the exploration of space and the seas.

What makes Oldroyd's mechanical arm project novel is the idea of adaptive control. It's relatively easy for a robot to accomplish a task like making coffee if the ingredients and equipment are in exactly the same location every time. But since that is rarely the case, Oldroyd is devising a system that makes it possible

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Yale president's talk on Orlando opens Baroque Festival Feb. 23

A. Bartlett Giamatti, nineteenth president of Yale University, will inaugurate WU's Baroque Festival when he speaks on "Orlando and the Epic Tradition" in Graham Chapel at 11 a.m., Wednesday, Feb. 23.

At the time that Giamatti became head of Yale in July 1978, he held the John Hay Whitney Professorship in English and Comparative Literature. Giamatti, a Renaissance scholar, is the author of *The Earthly Paradise and the Renaissance Epic* and coeditor of *Lodovico Ariosto: Orlando Furioso. Orlando Furioso,* the epic by 16-century poet Ariosto, was the main source of the story that Handel used for his 250-year-old opera, *Orlando.* The centerpiece of the Baroque Festival, it will be performed on three evenings, Feb. 25-27 at 8 p.m., in Edison Theatre.

Giamatti, whose particular interests are the literature of Italy and England, specifically Spenser and Renaissance epic poetry, is also knowledgeable about Provencal poetry and Dante. The author of two other books, and the coeditor of a variety of texts, Giamatti served as general editor of *Western Literature,* a three-volume anthology published in 1971.

Such intellectual pursuits have been leavened by his prize-winning article, "Tom Seaver's Farewell," which originally appeared in the September 1977 issue of *Harper's Magazine.* It was selected as the "Best Magazine Story" by E.P. Dutton Press, Inc., for its book, *Best Sports Stories 1978.* In that story, the Giamatti wit surfaces. He tells of visiting with Tom Seaver, now a pitcher with the New York Mets, and other celebrities at the apartment of Erich Segal, author of *Love Story,* and remaining unobtrusively in the background. Giamatti observed: "Because I was about the only member of the gathering who was a household name only in my own household, I was content to listen, and to watch Seaver."

A. Bartlett Giamatti

Giamatti has received widespread recognition for his accomplishments. In 1979, the honorary title of Commander in the Order of Merit of the Italian Republic was bestowed on him. A year later, he was elected a Fellow of the American Academy of Arts and Sciences and last year became a member of the American Philosophical Society. In 1980, he was elected a director of the Council for Financial Aid to Education. Giamatti, in addition, was a member of the National Council on the Humanities and a member of the Commission on the Humanities, sponsored by the Rockefeller Foundation in 1978-80. In 1981, he was appointed by Secretary of the U.S. Department of Education Terrel H. Bell to the 18-member National Commission on Excellence in Education.

Arts & Education drive opens; has goal to raise $2 million

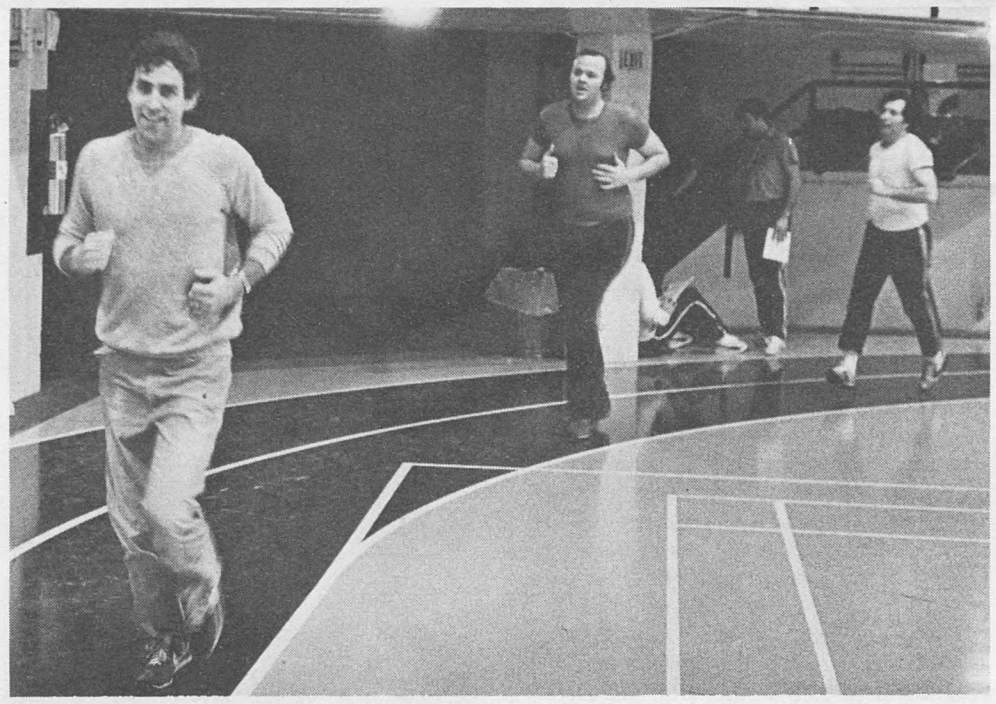
"Be a Fan!" is the theme of this year's Arts and Education Council fund drive to raise $2.2 million by March 15. Over 130 St. Louis-area cultural and educational organizations in St. Louis are eligible for funds from the campaign, including eight WU departments.

The main beneficiaries of the drive are Dance St. Louis; KETC-TV, Channel Nine; the Mark Twain Summer Institute, a six-week summer program for academically able high school students; the Missouri Botanical Garden; Opera Theatre of St. Louis; the Repertory Theatre of St. Louis (formerly Loretto-Hilton); the Saint Louis Conservatory and Schools for the Arts (CASA); Young Audiences, which brings

continued on p. 2

A macabre visage of George Washington, made up with urban cosmetics, the sulfur of industrial pollutants. A trio of Washington statues have been restored over the past several years by WU's Sculpture Conservation Laboratory. More on page 3.

WU trustee and former adjunct professor of architecture William K. Y. Tao returned with a WU delegation to his native China last summer for the first time in over 35 years. He talks about his impressions of China today for the Asian Art Society at 8:15 p.m. Feb. 17 in Steinberg auditorium.



Making the rounds on Francis Field House's indoor track is part of the WU physical fitness program.

Fitness buffs brave early hours in exercise program at Francis

In the early hours of the morning, the silence of the Francis Field House gymnasium is broken by the muffled yawns of a sleepy group of WU administrators, faculty and staff preparing for an hour of exercise and running. Their reasons for being there vary, but all share the goal of better health.

They are participants in one of two 10-week physical fitness programs sponsored each semester by the Department of Sports and Recreation. The group meets every Monday, Wednesday and Friday from 7-8 a.m. for 30 minutes of individualized exercises and 30 minutes of running. The program regularly attracts at least 30 to 35 participants ranging in age from 20 to 60. One third of the participants are women.

"The majority who enroll are just starting out and need guidance and structure before they begin an exercise program on their own," explained Richard R. Larsen, WU assistant athletic trainer and director of the fitness program for the last two years. "Some of the younger participants want to stop the deterioration of their bodies before it's too late. Older participants want to lose weight or simply to feel better, work better or reduce stress. There are many benefits to a regular exercise program."

Leonard J. Banaszak, professor of biological chemistry, agrees with Larsen. "You have to have a certain amount of devotion to get up at 6:30 in the morning," said Banaszak, "but it has had positive effects. I have more energy for my work, and I generally feel better." Sheldon S. Helfman, professor of architecture, echoes Banaszak's sentiments. "At first it was embarrassing because there were a lot of exercises I couldn't do," Helfman said. "But I can see my improvement every day. I feel better and I've lost weight, too."

Although carefully tailored by Larsen to each person's age and present physical condition, all the exercises are designed to increase the heart's ability to pump blood. Each participant exercises for a sustained period of time at a certain heart rate. These exercises not only strengthen the heart muscle, but lower blood pressure, increase circulation, decrease the amount of fats and cholesterol in the bloodstream and increase the individual's tolerance of stress.

Participants start slowly and build up their endurance, says Larsen, because overexercising is not only uncomfortable, but dangerous. Larsen insists that participants over the age of 35 have the approval of their physician. Both Larsen and his assistant, Jamie Stern, are certified in Cardio-Pulmonary Resuscitation (CPR) and are prepared for any emergency. As assistant athletic trainer, Larsen is responsible for the prevention, treatment and rehabilitation of athletic injuries to student athletes.

In addition to the basic exercising program, an optional pre- and post-fitness evaluation to determine cardio-vascular improvement and body composition measurements is available. Larsen also provides information on stress, reducing, diet and how to stop smoking.

The next 10-week session will be offered March 28-June 3 and costs $40. The optional fitness evaluation is an additional $20. Individuals interested in the program should contact Larsen at 889-5220.

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Robot — *continued from p. 1*

to modify the robot's actions as it moves.

For instance, if the coffee jar is a few inches to the left of where the robot is programmed to expect it, the user can command the robot to reach further to the left. Afterward, the robot remembers the new location of the jar.

"The whole idea is to devise software to let someone program the machine in a fashion that is extremely simple, yet adaptable to the situation," he explained. "With a sophisticated control system, an inexpensive microprocessor (computer chip) can be coupled with an inexpensive robot to do household chores."

At present, Oldroyd's robot is activated by commands typed onto a computer terminal keyboard. Eventually he will use voice control, programming the robot to respond to about 30 simple phrases. He plans to demonstrate the robot's abilities this spring, when he'll seek comments from handicapped people and therapists. Perhaps future programs can even be developed for grooming functions, like combing hair and brushing teeth, he said.

Oldroyd, who has taught several undergraduate classes in robotics, predicts that robots will be common household servants in as little as five to 10 years. "The changes yet to come from robotics will far outweigh the changes we've seen from computers," he said.

Drive — *continued from p. 1*

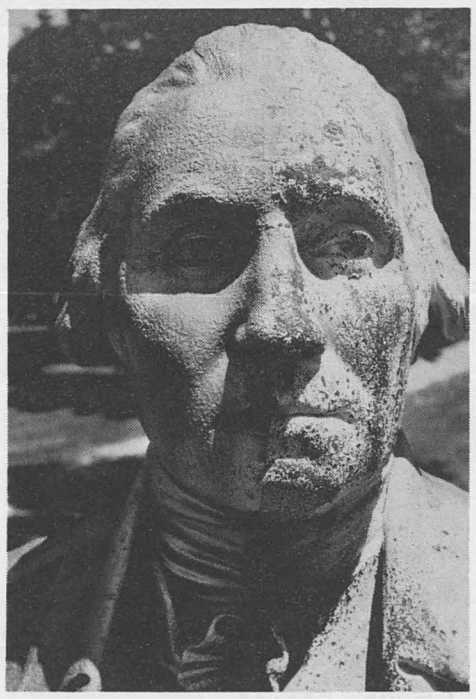
professional performing artists to schools and communities throughout eastern Missouri and southwestern Illinois, and the Arts and Education Council of Greater St. Louis, which offers services to member agencies. Collectively, these agencies serve more than two million adults and children.

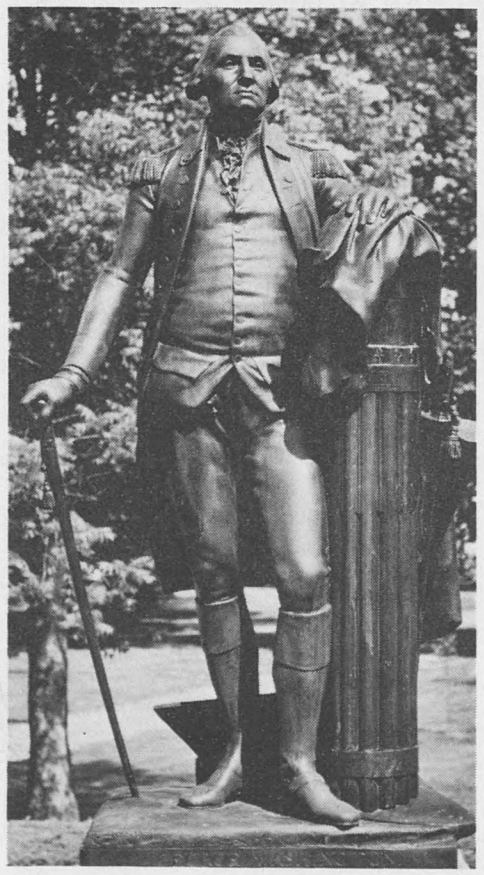
This year, for the first time, eight WU departments became eligible for Arts and Education Council funds: Asian Art Society, Department of Chinese and Japanese, Department of Music, Performing Arts Area, the schools of Architecture and Fine Arts, University College, and the Gallery of Art.

Chancellor William H. Danforth is chairman of the Education Division of the council this year. Gloria White, associate vice chancellor for personnel and affirmative action, is this campus's drive coordinator.

Certain premiums accompany various gift amounts, which are tax deductible. Faculty, administrators and previous givers have received pledge information. Pledge cards are also available at the Personnel Office, Ext. 5990, on the lower level of South Brookings Hall. Pledge cards and checks (no cash, please) should be returned no later than March 15 to the Arts and Education fund in the accompanying self-addressed envelope or to White at campus box 1184.

Lucian Krukowski, former dean of the School of Fine Arts, who holds joint appointments as professor of art and adjunct professor of philosophy, recently completed this 22 by 78-foot mural above the front door of the new HBE Corp. headquarters, 11330 Olive Street Rd., Creve Coeur. Completed last December, Krukowski's work of art is believed to be one of the St. Louis area's largest outdoor murals. Fred S. Kummer, HBE's president and founder, commissioned the mural.





Three Faces of George. The WU Sculpture Conservation Laboratory has restored statues of George Washington in Lafayette Square, St. Louis (1976), on Wall Street, New York City (1978), and recently, it completed rehabilitation of a multi-statue group, with Gen. Washington astride a horse, outside the capitol building in Richmond, Va. Removal of years of accumulated sulfur deposits revealed a youthful George (page one and upper left) at Richmond. The extent of restoration possible is evident in the face and the completed bronze copy in Lafayette Square (left center and bottom) of a famous Houdon marble. Above, a laboratory technician works on a twice life-size statue at the site of Washington's inaugural address, Federal Hall, Wall Street.

Ambitious sculpture recovery jobs bring new life to Washingtons

Washington University, named for our first president and granted its charter on George Washington's birthday 130 years ago, is doing more for the memory of Washington today than simply serving as a namesake. The University's Sculpture Conservation Laboratory has in the past seven years restored three nationally significant Washington statues in three different U.S. cities.

First to be restored, in 1976, was a life-size Washington bronze located in St. Louis' Lafayette Square. That statue is a copy of the famous Carrara marble work undertaken by French artist Jean Antoine Houdon in 1785. The original is considered to be this country's most priceless marble statue. The bronze copy in Lafayette Square is one of the first six authorized by the Virginia Legislature to be cast from the marble original.

In New York City, two years later, the University's Sculpture Conservation Laboratory finished restoration of the famous Washington statue in front of Federal Hall on Wall Street, where Washington gave his inaugural address in 1789. That twice life-size bronze, considered a national treasure, was completed by American artist John Quincy Adams Ward in 1883.

And just two months ago, WU sculpture conservators restored the pre-Civil War Washington monument near the capitol building in Richmond, Va. Rehabilitation of this multi-statue work is considered the most ambitious sculpture recovery project ever undertaken, costing $200,000 and requiring more than three months to complete.

On all three Washington projects, and in dozens of other restorations the WU conservators have undertaken, far more is involved than merely polishing badly tarnished bronze surfaces. On each project, advanced cleaning methods are used to remove damage done to the statues by sulfur in industrial pollutants.

First, the WU conservators bombard the bronze with powder-fine glass beads, a process also used to clean delicate jet engine parts. Then, heating the statue with blow torches while spraying the hot metal surface with special chemicals, the conservators cause a chemical reaction called patination. Several such treatments restore a statue's original rich brown color. Finally, protective acrylic resin coatings are added to prevent future damage.

Are more George Washington rehabilitation projects planned by the WU Sculpture Conservation Laboratory? Chief conservator Phoebe Weil says possibly two more — one at the Chicago Art Institute, the other in Brooklyn.

CSAS elects officers

The Council of Students of Arts and Sciences elected new officers and conducted other business at its Feb. 3 meeting.

Senior Joe Jacobson and junior Michael Wajnrajch were elected to complete the Student Union terms vacated by Arts and Sciences representatives. Sophomores Eve Askanas and Claire Bruno and freshman Honey Jackerson were elected to the council's executive board.

A resolution was passed directing Student Union to establish a committee with student representation to examine possible responses to a federal law requiring male students receiving federal financial aid to state whether they have registered with the Selective Service.

Campus Notes

Robert L. Pierce, assistant professor of social work, has been elected to the board of directors of the International Institute of Metropolitan St. Louis. The institute is a non-profit social service agency that helps local immigrants and refugees and conducts educational and cultural programs to improve cross-cultural understanding.

Henry G. Schwartz, August A. Busch Jr. Professor of Neurological Surgery at the School of Medicine, has received the Award of Merit from the St. Louis Metropolitan Medical Society. The award is the society's highest honor, and is presented only when the awards and honors committee knows of a deserving recipient. The society recognized Schwartz for "outstanding contributions to medicine." Schwartz is a neurosurgeon at Barnes, Jewish and St. Louis Children's hospitals.

Jeffrey Skolnick, assistant professor of theoretical chemistry, has been selected as an Alfred P. Sloan Research Fellow. The Sloan Fellowship is accompanied by a grant of $25,000 for research support. Recently, he was awarded a grant of $35,000 from the Petroleum Research Fund for his investigations on the dynamics of polymer glasses. Skolnick received a BA in chemistry from WU and a PhD in theoretical chemistry from Yale University. He joined the WU faculty in 1982.

John C. Thompson, assistant vice chancellor for planned giving, discussed cultivation and solicitation techniques for donors of trusts, bequests, and major gifts at the Advanced Planned Giving Seminar in early February. Held in Alexandria, Va., this annual program for college and university development officers is sponsored by the Council for Advancement and Support of Education.

Carol Winkelmann (BSChE '84) won a first-place award in the 1982 Technical Art and Writing Competition of the St. Louis chapter of the Society of Technical Communication. Her "Switchboard and Reception Desk Manual for the St. Louis County Library," written as a final project for Technical Writing 310, an engineering school course, received the "Award of Excellence" in the student writing category. Winkelmann's manual will be displayed with winning entries of international-level competition at the 30th International Technical Communication Conference, May 1-4, at the Sheraton-St. Louis Hotel.

Feb. 17-26

Calendar

Thursday, Feb. 17

1:10 p.m. George Warren Brown School of Social Work Lecture, "Organized Volunteers in Disasters," David F. Gillespie, WU assoc. prof. of social work, and Michael Sherraden, WU asst. prof. of social work. Brown Hall Lounge.

4 p.m. Public Affairs Thursday Lecture, "Chicago Politics in Transition: The 1983 Mayoral Election and Beyond," Louis H. Masotti, prof. of political science, Northwestern U. 200 C & D Eliot.

7:30 p.m. Hillel Foundation Lecture, "The Rise and Fall of Israeli Folk Music," Michael Beckerman, WU visiting asst. prof. of music. Cosponsored by the Jewish Student Union as part of the Jewish Arts Festival. Brown Hall Lounge.

7:30 p.m. W.E.B. DuBois Lecture Series, "Carter G. Woodson: The Man As I Knew Him," Lorenzo Green, prof. emeritus of history, Lincoln U. Sponsored by WU Black Studies Program. Ann Whitney Olin Women's Bldg. Lounge.

8:15 p.m. Asian Art Society Lecture, "China Today: An American's Observation with a Chinese Insight," William Tao, former affiliate prof. of architecture at WU and current WU trustee. Steinberg Aud.

Friday, Feb. 18

10 a.m. The Black American Law Students Association (BALSA) Discussion, "Race and the Law: Views From the Bench," Judge Theodore McMillian, U.S. Court of Appeals, 8th Circuit; Judge Clyde Cahill, U.S. District Court, Eastern District, Mo., and Judge Fernando Gaitan Jr., 16th Circuit Court, Jackson County. Mudd Courtroom.

2 p.m. Technology and Human Affairs Seminar, "Science, Technology and International Development: Issues and Options," Robert P. Morgan, WU prof. of technology and human affairs, and public policy fellow, Brookings Inst., Washington, D.C. 104 Lopata.

3 p.m. McDonnell Lab. for Psychical Research Seminar Series. Report on main papers and issues raised at the 1983 Conference of the Southeastern Region Parapsychological Association. 117 Eads Hall.

7:30 p.m. Inter-Varsity Christian Fellowship Lecture, "Friendship Evangelism," Rita Carson, IVCF staff at Lindenwood College. Country Cafeteria, Wohl Center.

Saturday, Feb. 19

9 a.m. Neural Sciences Seminar Series, "Cortical Microcircuitry," Stewart Hendry, WU post-doctoral fellow in neurology and neurological surgery. 928 McDonnell Medical Sciences Bldg., 4565 McKinley.

Sunday, Feb. 20

8 p.m. Jewish Arts Festival Lecture, "From Tradition to Jazz in the Synagogue," Bonya Shur, dir. of liturgical art, Hebrew Union College. Cosponsored by B'nai B'rith Hillel Foundation and Jewish Student Union. Hillel House, 6300 Forsyth Blvd.

Tuesday, Feb. 22

Noon. Pharmacology Department Wellcome Creasy Prize Lecture in Clinical Pharmacology, "Genetic Analysis of the Cyclic AMP System in Yeast, Mouse and Man," Henry R. Bourne, prof., medicine and pharmacology, and chief, division of clinical pharmacology, U. of Calif., San Francisco. Cori Aud., McDonnell Medical Sciences Bldg., 4565 McKinley.

Wednesday, Feb. 23

11 a.m. Baroque Festival and Assembly Series Lecture, "Orlando and the Epic Tradition," A. Bartlett Giamatti, president, Yale U. Graham Chapel.

3 p.m. Black Studies Faculty Seminar Series, "New Economic Thrusts in the Human Rights/Civil Rights Movement," featuring a panel of speakers from local civil and human rights groups. 349 McMillan.

3 p.m. School of Law Judicial Lecture/Demonstration Series, "Opening Statement," Judge George Gunn, Jr., Missouri Supreme Court, and attorneys Joan Burger and Joseph Moore. Mudd Courtroom.

3:30 p.m. Center for the Study of American Business Public Choice Workshop, "Cross-Subsidization in a Simple Political System: Theory and Evidence," Rodney Smith, U. of Chicago. 300 Eliot.

4 p.m. Department of Physics Colloquium, "Ultrasonics in Medical Diagnosis and Biomedical Research," Frank E. Barber, Dept. of Radiology, Harvard Medical School. 201 Crow.

8 p.m. Hillel Foundation Lecture, "Soviet Jewry Under Andropov: Prospects and Dangers," Maurice Friedberg, chairman, Dept. of Slavic Languages and Literature, U. of Ill. Hillel House, 6300 Forsyth Blvd.

Thursday, Feb. 24

1:10 p.m. George Warren Brown School of Social Work Lecture, "Toward Developing a System of Income Maintenance for the U.S.," Martha N. Ozawa, WU prof. of social work. Brown Hall Lounge.

2:15 p.m. Department of Mechanical Engineering Colloquium, "Transonic Airfoil and Wing Flow-Field Measurements," F. W. Spaid, principal scientist, McDonnell Douglas Research Labs. 100 Cupples II.

4 p.m. Department of Chemistry Seminar, "Molecular Beam and Optical Studies of Gas-Surface Interactions," Steve Sibener, asst. prof. of chemistry, U. of Chicago. 311 McMillen Lab.

4 p.m. Public Affairs Thursday Lecture, "Looking at the Federal Government Through State-Colored Glasses," Mark Gordon, dir., finance and administration, Ill. Dept. of Transportation. 200 C & D Eliot.

8 p.m. Department of English Colloquium, "A Residual Start: The Prehistory of Spenserian Vision," Joseph Loewenstein, WU asst. prof. of English. Hurst Lounge, Duncker Hall.

8:30 p.m. Baroque Festival Exhibition Opening Lecture, "Medici Court Ballet in France and Florence," Edwin Binney 3rd, adjunct curator of ballet, Harvard Theatre Collection, opening the exhibition "Baroque Theatre and Stage Design." Steinberg Hall.

Friday, Feb. 25

9 a.m. Baroque Festival Symposium, Session I, "Culture and Theatricality in Baroque Europe." Irving Lavin, Institute for Advanced Study, Princeton, N.J., "On the Unity of the Arts and Early Baroque Opera House;" Duncan Kinkead, Duke U., "The Stage and the Frame;" Joy Kenseth, Dartmouth College, "Bernini's *Neptune and Triton;*" Barry Wind, U. of Wis.-Milwaukee, "*Ut Pictura Comedia!* Aspects of the Theatre and Caravaggesque Genre Paintings." Steinberg Hall.*

Noon. WU Woman's Club Mini-Luncheon and Lecture, a presentation of the Raptor Rehabilitation and Propagation Project which preserves hawks and owls from extinction. $2 for members; $3 for guests. Stix House, 6470 Forsyth Blvd. For reservations, call 993-8771 or 961-0562.

1 p.m. Baroque Festival Symposium, Session II, "Baroque Opera in Europe." Andrew Porter, music critic, *The New Yorker* magazine, "Baroque Opera in the Modern Theatre;" Steven Plank, Oberlin College, "Music for a Princess: Sacred Opera in Siena;" Jean Doten, Harvard U., "Handel, Metastasio and the Three Canary-birds;" and Ellen Harris, U. of Chicago, "Eighteenth Century Orlando: Hero, Satyr and Fool." Steinberg Hall.*

1 p.m. Central States Electron Microscopy Society's Winter Meeting. Topics to be discussed are electron diffraction, photography in electron microscopy and specialized techniques for tissue preparation. Moore Aud., McDonnell Medical Sciences Bldg., 4565 McKinley Ave.

2 p.m. Technology and Human Affairs Seminar, "The National Nuclear Weapons Freeze Campaign," Ben Senturia, political outreach coordinator for the National Nuclear Weapons Freeze Campaign. 104 Lopata.

3 p.m. Biotechnology Center Seminar Series, "Prospects for Biotechnology," Elmer L. Gaden, prof. of chemical engineering, U. of Va. 101 Lopata.

4 p.m. Faculty of Arts and Sciences Meeting. 201 Crow.

7:30 p.m. Inter-Varsity Christian Fellowship (IVCF) Lecture, "The Holy Spirit," Brian Lemon, small-group leader, IVCF. Country Cafeteria, Wohl Center.

8:45 p.m. Jewish Arts Festival Lecture, "Is There a Jewish Aesthetic?" Steven Schwarzschild, WU prof. of philosophy and Judaic Studies. Cosponsored by B'nai B'rith Hillel Foundation and Jewish Student Union. Hillel House, 6300 Forsyth Blvd.

Saturday, Feb. 26

9 a.m. Baroque Festival Symposium, Session III, "Ariosto's *Orlando Furioso* and Its Influence." Daniel Javitch, New York U., "The Reception of Ariosto's Counter-Canonical Poem: 1550-1650;" Wiley Feinstein, WU Mellon Fellow, "From Ariosto to Cervantes: Scorned Lovers and the Spirit of Parody;" John Wooten, U.S. Naval Academy, "The Baroque Rhetoric of Space: Ariosto and Milton," and Robert F. Gross, Cornell U., "Madness in Decline: The Coming of the Age of Reason." Lopata Hall.*

1 p.m Baroque Festival Symposium, Session IV, "Baroque Performance and Stagecraft." Lowell Lindgren, M.I.T., "Operatic Stagecraft in London in Handel's Time;" Alfred Golding, Ohio State U., "Classicistic Vocal Delivery and Characterization Methods in the Symbolic and Rational Modes;" Judith Milhous, U. of Ia., "Economics of Opera and Theatre in London, 1685-1720," and Arthur Blumenthal, U. of Md., "Giulio Parigi and Baroque Stagecraft." Lopata Hall.*

1 p.m. Phi Beta Sigma Fraternity Lecture. Freeman Bosley, Jr., St. Louis Circuit Court clerk. Ann Whitney Olin Women's Bldg. Lounge. For more information, call 889-6852 or 863-8283.

*General admission to all four sessions of the Baroque Festival Symposium is $10; area students $5, WU students $3. Lunch tickets are $4.50 for either day. Call 889-5297 for further information.

Exhibitions

"Nature and the Figure," an exhibition of paintings from the Academy to the Impressionist. Through March 6. Lower Gallery, Gallery of Art. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Capsule of Modern Art," an exhibition of modern works. Through March 6. Lower Gallery, Gallery of Art. 10 a.m.-5 p.m. weekdays; 1-5 weekends.

"Baroque Prints and Drawings." Through March 20. Print Gallery, Gallery of Art. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"High School Art," an exhibition of the best in high school art work from the St. Louis area. Through Feb. 20. Bixby Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

"Baroque Theatre and Stage Design," an exhibition with more than 70 16th-, 17th- and 18th-century drawings, prints and illustrated books from private and public collections. (Edwin Binney 3rd, adjunct curator of ballet, the Harvard Theatre Collection, will open the exhibition at 8:30 p.m., Thursday, Feb. 24, in Steinberg Hall, with a lecture, "Medici Court Ballet in France and Florence.") Gallery of Art. 10 a.m.-5 p.m. weekdays and 1-5 p.m. weekends. Feb. 25-April 10.

"The Epic Tradition: Rare Books and Uncommon Editions." Through March 31. Special Collections, Olin Lib., level five. Open 8:30 a.m. to 5 p.m. weekdays.

Music

Sunday, Feb. 20

8 p.m. Department of Music Jazz Concert, featuring "In The Midst" with Bill Lenihan, guitar; Paul De Marinis, saxophone; Rodger Guth, drums and percussion; and Jay Oliver, synthesizer. Graham Chapel. No charge.

Friday, Feb. 25

8 p.m. Baroque Festival production, Handel's *Orlando.* Admission $8; $6 area students and WU faculty and staff, and $5 for WU students. Center section tickets are $10, no discounts. Edison Theatre. For ticket information, call Edison Theatre box office, 889-6543. (Also Sat., Feb. 26, and Sun, Feb. 27, same time, Edison).

Films

Thursday, Feb. 17

7 and 9:15 p.m. WU Filmboard Series. "The Chant of Jimmy Blacksmith." $2. Brown Hall Aud.

Friday, Feb. 18

7 and 9:30 p.m. WU Filmboard Series, "Diner." $2. Brown Hall Aud. (Also Sat., Feb. 19, and Sun., Feb. 20, same times, Brown.)

Midnight. WU Filmboard Series, "Midnight Cowboy." $1. Brown Hall Aud. (Also Sat., Feb. 19, same time, Brown.)

Sunday, Feb. 20

8 p.m. The Nuclear Challenge Film Series, "Save the Planet" and "Lovejoy's Nuclear War." 215 Rebstock. Free.

Monday, Feb. 21

4:30 and 7:30 p.m. WU Filmboard Series, "2001: A Space Odyssey." $2. Brown Hall Aud.

Tuesday, Feb. 22

7:30 p.m. WU Filmboard Series, "South Pacific." $2. Brown Hall Aud.

Wednesday, Feb. 23

7 p.m. Women's Film Series, "After the Game" and "Witches and Faggots, Dykes and Poofters." Gargoyle, Mallinckrodt Center. Free.

7 and 9:15 p.m. WU Filmboard Series, "The Blue Angel." $2. Brown Hall Aud. (Also Thurs., Feb. 24, same times, Brown.)

Friday, Feb. 25

8 p.m. WU Filmboard Series, "Reds." $2. Brown Hall Aud. (Also Sat., Feb. 26 and Sun., Feb. 27, same time, Brown.)

Midnight. WU Filmboard Series, "Murder by Death." $1. Brown Hall Aud. (Also Sat., Feb. 26, same time, Brown.)

Sports

Saturday, Feb. 19

2 p.m. Women's Basketball, WU vs. Southwest Baptist U. Francis Gym.

Saturday, Feb. 26

7:30 p.m. Men's Basketball, WU vs. William Jewell College. Gen. admission $2; area students $1; WU students free. Francis Gym.

Calendar Deadline

The deadline to submit items for the March 3-19 calendar of the *WU Record* is Feb. 17. 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 include your name and telephone number. Address items to King McElroy, calendar editor, Box 1142.

The Woman's Club of WU will give a luncheon, followed by a program about the Raptor Rehabilitation and Propogation Project, at noon Friday, Feb. 25, at Stix Inernational House, 6470 Forsyth Blvd. The project, nestled in the heavily wooded Tyson Research Center, aims at preserving hawks and owls from extinction. See Lectures for admission information.

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