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Washington University Record

Vol. 7, No. 28

April 22, 1982



Clifton Smith earned a glowing smile from Melanie Benton for his spring offering of daffodils, which were sold in Mallinckrodt last week by the Pi Beta Phi sorority. Smith is a junior majoring in biology, and Benton is a freshman majoring in Spanish. Both intend to go to medical school.

Sen. Patrick Leahy to deliver Assembly lecture on El Salvador

Sen. Patrick J. Leahy, D-Vt., will speak on El Salvador at 4:30 p.m. Monday, April 26, at Graham Chapel.

His talk is sponsored by the Assembly Series, the St. Louis Council on World Affairs and the United Nations Association.

Last February, Leahy and Sen. Claiborne Pell, D-R.I., traveled to El Salvador, Nicaragua and Mexico to examine the deteriorating economic and military situation in Central America. The two senators reported their findings to the Senate committees on Foreign Relations and Appropriations soon after their return.

In their report, they said: "We came away from a brief inspection of the situation in El Salvador convinced that

the aims and objectives of U.S. policy in Central America and the Caribbean would be best served by seeking a peaceful, negotiated solution to the conflict. A future government which includes the parties of the left — even some Marxist elements — is a better gamble for future peace, stability and prosperity of the region than is the present course on which we are embarked."

Leahy is a member of four Senate committees: Agriculture, Nutrition and Forestry; Appropriations; Judiciary; and the Select Committee on Intelligence.

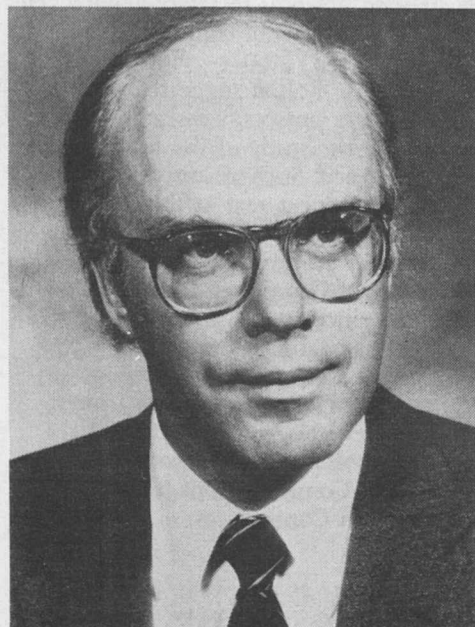
Born in Montpelier, Vt., in 1940, he was elected to the Senate in 1974, the first Democrat in Vermont's 200-year history to attain that office. He was re-elected to a second term in 1980.

Dutch educator to talk April 28 on nuclear arms

Bert Roling, chairman of the Advisory Council of the Dutch Institute for Peace Problems, will speak at 11 a.m. Wednesday, April 28, at Graham Chapel. His topic will be "Impact of Nuclear Technology on International Law."

He will deliver the Arthur Holly Compton Memorial Lecture, named for WU's chancellor from 1945 to 1953.

In 1973, Roling received the Lentz International Peace Research Award, named for the late Theodore Lentz, a WU psychology professor who did peace research.



Sen. Patrick J. Leahy

Exhibit on satire through the ages opens in Olin's special collections

"Fools are my theme, let satire be my song," wrote Lord Byron in 1809 in *English Bards and Scotch Reviewers*. The quote is also the title of a new exhibit of over 50 pieces of satire in the form of books, letters and cartoons, by satirists from Aesop to Erasmus to Vonnegut, on view in Olin Library's Special Collections.

The exhibit, on the fifth floor of Olin Library, is open from 8:30 a.m.-5 p.m. weekdays through Aug. 31.

"What even the earliest satire had to say about the vices and weaknesses of man is as true today as it was when it was written centuries ago," said Ida Holland, special collections cataloger, who assembled the exhibit from the University's collection. Holland added that the works on display are a small sample of the satire collection at Olin Library.

Included in the exhibit is a seven-page manuscript letter written by Mark Twain in 1910, outlining a code of behavior for those about to enter heaven or hell. It is believed to be the last piece of continuous writing by Twain. Also on display is a collection of political cartoons from Great Britain dating from the 18th and 19th centuries depicting the follies of British life, royalty and politics.

Several first editions are on display, among them, Voltaire's *Candide*, from the first Random House sole imprint, signed by its illustrator, Rockwell Kent.

An 1844 edition of *The Life and Times of Martin Chuzzlewit*, by Charles Dickens, is an indictment of the money motive in the United States and Great Britain.

A group of anthologies published during the 14th through 17th centuries include Juvenal's *Satyra Tertia in Satyrogaphi Opus*, a story of a poor Roman citizen's denunciation of the imperial empire, contained in a volume published in Venice in 1548; Aristophanes's *The Frogs*, published in London in 1597; a collection of poems, odes, satyres and epistles by Horace, published in London in 1666; and a 1930 edition of Aesop's *Fables*.

Other items of interest include an edition of *The Beggar's Opera*, written by John Gay in 1728, which later became the basis of *Threepenny Opera*, by Bertolt Brecht and Kurt Weill. Also on display is a 1712 edition of a book by John Arbuthnot, who originated the character of John Bull, Britain's counterpart to Uncle Sam.

The items in this exhibit are drawn from several sources, including the George N. Meissner, Isador Mendle, Edgar A. Hahn, William K. Bixby, Gordon G. Hertslet, Eugene Angert, Stratford Lee Morton and Harold C. Ackert collections. A bibliography is available for those who would like to do additional reading, Holland said.



This British political broadside, titled *The Morning News*, was drawn by Henry William Bunberry in the early 19th century. Beneath it Bunberry wrote "The Rabble gather round the Man of News/And listen with their Mouths./Some tell some hear some judge of News some make it./But he that lyes most loud is most believed." It is part of a collection of 18th-and 19th-century broadsides assembled by an unknown previous owner. The collection is part of the display of satiric literature in Olin Library's Special Collections through Aug. 31. The hours are 8:30 a.m.-5 p.m. weekdays.

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A view of the mined-out Kimberley "Big Hole" in the town of Kimberley, South Africa. The water-filled central pit represents surface mining done before an underground mine was developed below.

Gem-filled volcano-like shafts hold geologic clues of earth's depths

Part volcano, part elevator, a kimberlite is a diamond's best friend. In fact, this geologic formation, shaped like a vertical mine shaft, is at the core of the world's diamond industry.

Chocked full of diamonds, garnets and a potpourri of other rock fragments, a kimberlite functions as a massive geologic elevator to transport minerals to the surface in an explosive surge of volcanic energy.

Jill Dill Pasteris, assistant professor of earth and planetary sciences, has been crisscrossing South Africa, North America and other potential kimberlite sites since 1977 studying these peculiar formations and trying to solve their mysteries.

Pasteris' fascination with kimberlites reaches far deeper than the diamonds therein. "Kimberlites are very interesting," she explained, "because they come from deep in the earth, and we're always curious about what is going on at such great depths."

Kimberlites form some 120 miles or more below the earth's surface and reach ground level in a burst of volcanic energy called a "blow." The kimberlites that are being mined for diamonds today formed millions of years ago and rose to the surface in two stages. First, fiery molten rock within pockets of the earth's mantle, located below the 18-mile-deep outer crust, pushed upward through a subterranean fissure, this forming a wall of melt called a "dike."

In the second stage, at a point still well below the surface, volcanic pressure working within the wall suddenly produced a funnel-shaped blow. This explosion projected a shaft of melt from the dike all the way to the surface.

Pasteris began studying kimberlites with a visit to the famous South African diamond mines in Kimberley (after which "kimberlite" was named) and elsewhere.

The first diamonds found at these sites were discovered in a stream during the late 1880s. Like pearls cast before swine, these crystals sat around on a mantlepiece for several years before someone identified them as diamonds. Geologists soon traced the route of the stream back to a kimberlite formation.

Not all kimberlites contain diamonds and, conversely, not all diamonds are found in kimberlites. Thus, Pasteris' study of kimberlites has many economic ramifications. One of her long-term results might well be the ability to forecast which kimberlites bear diamonds and which do not.

To make such predictions, Pasteris must first conduct in-depth studies of kimberlite rock in the laboratory and

then characterize it. In the laboratory Pasteris takes a rock and slices it into wafers some 30 microns thick — thin enough to see through when she holds a slice up to the light. She looks at these rock slices under a microscope while aiming beams of light at them, noting and recording various kimberlite characteristics.

One of the big questions about kimberlites is their "parentage" and that of the rock fragments contained in them. Did all the various rocks begin as the same material at great depths but evolve into diverse specimens because of changing heat and pressure as the kimberlite rose to the surface? Pasteris considers this rock breeding process to be one of the fascinating mysteries surrounding kimberlites. For this reason, she would like to work out a family tree for the minerals and rocks she is analyzing.

"It's like asking how two parents could have black children, white children, Chinese children and Indian children," she said.

Another vital question is whether diamonds actually form within kimberlites, or whether kimberlites only act as the transportation system. It is quite possible that during the violent journey of a kimberlite to the surface, it plucks diamonds and rock fragments from parent formations on the sides of the conduit.

When diamond prospectors and curious geologists such as Pasteris want to locate new kimberlites, they look for "indicator minerals" on the surface. One of the best indicators is the garnet. A group of geologists will pick a likely area — perhaps one that features magnetic anomalies, which in some cases are characteristic of kimberlites — and fan out in a grid pattern looking for garnets with a particular color and composition.

Using such methods, geologists have recently located kimberlites with diamond-bearing potential near the border of Colorado and Wyoming, and others in Arkansas, Missouri and Kansas.

Pasteris, like some of her rock samples, is a rare geologic find: one of the few people whose interest in kimberlites glosses over diamonds and focuses on their birth down below. "It is singularly fortunate for us that the term 'barren' kimberlite means only that the rock has almost no diamonds," Pasteris wrote in a recent *Eos* article, "but not that it is in any way barren of geologic information. Kimberlites may represent our best clues to fluid evolution in the earth's mantle."

National work program proposed to lessen youth crime, suicides

The recent rise in social problems involving teenagers — crime and vandalism, alcoholism, cult participation, and a record number of suicides — is related to the lack of job opportunities for young people, according to Michael W. Sherraden, WU assistant professor of social work. The answer to these problems may lie in a national service program which, Sherraden said, would give young people a chance to assume responsible roles in society.

"The labor market is shifting away from unskilled and low-skilled jobs to technical positions requiring extended education," Sherraden said. "The growing number of women entering the labor force are competing for jobs with young people. As a result, growing up and settling down is now a long and difficult process for many young people who are unable to find a place in society."

"What has happened," Sherraden added, "is that we've stopped telling young people that they are useful. They are not asked to do anything constructive, and many of them get side-tracked and lost. We all pay for these lost kids for the rest of their lives through the costs of crime, imprisonment, welfare, social services and hospitalization."

Sherraden proposes a voluntary national service program that would emphasize productivity and pay a minimum wage. Educational benefits, similar to those offered under the old GI Bill, would be awarded to participants based on length of service. The program would be operated locally, but directed by a federal agency that would receive appropriations, approve applications for projects and maintain standards.

Sherraden's plan will appear soon in a book, *National Service: Social, Economic and Military Impacts*, Pergamon Press.

Sherraden predicts that national service will be a prominent issue during the next few years. A 1981 Gallup Poll indicated that 71 percent of Americans supported a compulsory national service program for men and 54 percent for women. As for voluntary service, a 1980

Gallup Poll of 18- to 24-year olds showed that 80 percent of young men and 74 percent of young women favored the concept.

In August 1981, former Attorney General Griffin Bell and Illinois Governor James Thompson, as co-chairmen of the Attorney General's Task Force on Violent Crime, suggested national public service "... as a means to provide a portion of structure now lacking in many young people's lives and thereby to reduce the likelihood of their involvement in criminal activity."

The concept of a national service program is not new in American history. The first, the New Deal's Civilian Conservation Corps (CCC), was successful during the Depression largely because of its productivity, Sherraden said. The CCC built bridges and roads, and restored historic structures, planted millions of acres in trees and put in thousands of miles of telephone lines and fire breaks.

More recent examples of national service programs are the Peace Corps and Volunteers in Service to America (VISTA). The conservation corps idea reappeared in 1970 with the creation of the Youth Conservation Corps and, in 1978, with the Young Adult Conservation Corps (YACC). New York Mayor Edward Koch reported that in 70 New York City parks, YACC crews were paid \$2.9 million for work that would have cost an estimated \$8.80 million in the open market.

"The nation's young people are ready and able to contribute to society rather than to burden it. They do not want a free ride," Sherraden said. "Our challenge is to find a vehicle for young people to move ahead under their own power and creativity. National service may be such a vehicle."

Arms — continued from p. 1

Roling was one of the founding members of the International Peace Research Association (IPRA) and became its first secretary-general in 1965. He was in charge of three general conferences of the IPRA in 1967, 1969 and 1971, when he stepped down as secretary-general. He edited six volumes of conference proceedings.

In 1961, Roling suggested the establishment of a university research institute devoted to the study of the problems of war and peace. Such an institute was established the next year at the University of Groningen, the Netherlands.

He was professor of penal law at the University of Groningen from 1949 to 1962 and since 1972 has occupied the chair of international law.

Roling was a member of the Netherlands Delegation to the United Nations General Assembly, 1951-1957, and also took part in the work of the International Commission of Jurists and the Pugwash Conferences.

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Early music, avant garde, challenge 'mainstream,' says musicologist

Historical performance practice of renaissance and baroque music has more in common with contemporary music than with "mainstream," late Romantic music, says Laurence Dreyfus, assistant professor of music.

"Early music offers a critique of romantic traditions much as contemporary music does because of its redefining of phrasing, tempo, articulation," Dreyfus explained. "So often early music has been considered a haven in the heartless world of competitive, mainstream music, but, like the avant garde, it is capable of producing new and relevant meanings."

Dreyfus and Nicholas McGegan, artist-in-residence and harpsichordist, will give a concert of viola da gamba and harpsichord works at 8 p.m. Sunday, April 25, in Holmes Lounge. The program will include works by Christopher



Laurence Dreyfus

Simpson (c 1605-1669), Tobias Hume (?c 1569-1645), Marin Marais (1656-1728) and J. S. Bach.

Although it resembles a cello, the gamba developed independently of that instrument, Dreyfus said.

"Early violins and cellos, unlike the fretted gamba, were intended to be played only in first position and were not regarded as virtuosic instruments," he explained. "The gamba, on the other hand, because of its frets and greater number of strings, was considered a more sophisticated solo instrument and was popular among the French nobility in the 17th century. The gamba was burned along with the harpsichord during the French Revolution as a symbol of the court."

Even with its fiery political history, the gamba and other historical instruments are definitely enjoying a renaissance. Releases by large European record companies are widening and educating early music's audience on both sides of the Atlantic. Once attended like "antique shows," Dreyfus noted, concerts where harpsichord or gamba are performed are now reviewed on the player's merits, rather than on the instrument's novelty.

Dreyfus, who joined the WU faculty last fall, studied cello for a year with Leonard Rose at Juilliard, but left there to pursue a bachelor's degree in political science. A balance was struck when he returned to Columbia University in musicology. There, he learned to play gamba and earned a doctorate.

While conducting research at the Bach Archives in Leipzig, his interest in performing was rekindled by the University of Leipzig's large collection of historic instruments. He played duo recitals with harpsichord all over Europe and in the United States, and won first prize in 1978 at the 11th Erwin Bodky Competition in Early Music (Cambridge, Mass.). He later studied with the world's foremost gamba player, Wieland Kuijken at the Royal Conservatory (Brussels), and he graduated with a first prize diploma with distinction in 1980 and a *diplome superieur* with highest distinction in 1981.

Dreyfus has written numerous articles on performance practice and is editor of a new edition of the three Bach sonatas for gamba and harpsichord, to be issued in 1982 by Peters.

Campus Notes

Thomas A. Harig, director of the General Services Department, was re-elected to the board of directors of the Educational and Institutional Cooperative Service Inc. as secretary-treasurer for 1982.

The cooperative is an organization of over 2,000 institutions of higher education and some hospital groups that enters into national buying contracts for goods in volume, thus lowering costs for member institutions. The cooperative made purchases in excess of \$64 million for its members during 1981. WU has been an active member of the cooperative for over 20 years.

Richard J. W. Koopman, Samuel C. Sachs Professor Emeritus of Electrical Engineering, will receive the St. Louis Section Award of Honor from the Institute of Electrical and Electronics Engineers (IEEE). Koopman, a past chairman of the St. Louis section, is being recognized for his leadership and contributions to electrical engineering, education and the IEEE. The award will be presented on April 29 at the organization's annual recognition dinner.

Recent short stories by Yun Phin Lee, a WU doctoral candidate, will be the topic of a paper presented by Joseph Lau, of the University of Wisconsin-Madison, at a conference on modern Chinese literature at St. John's University in New York. Lau, one of the foremost scholars of contemporary Chinese writing, is translating into English several of Lee's stories for inclusion in an upcoming anthology of Chinese writing.

Lee will receive his PhD from WU in May, the first to do so in the joint Comparative Literature-Chinese studies graduate program. Lee, a native of Sarawak in Malaysia, also holds degrees from National Taiwan University and the State University of New York-Albany. His works are included in several other anthologies of modern Chinese literature.

A. Peter Mutharika, professor of law, moderated and led a panel discussion on "Movement Towards more Equitable Foreign Investment Contracts" at the University of Windsor, Ontario, March 27. The discussion was part of a series of seminars on the New International Economic Order, which began with a seminar on "Redistribution of Power in the International System," moderated by Mutharika in January in Philadelphia. Future seminars on the same theme are to be held in the United Kingdom, Africa and the Caribbean.

Dennis M. Oliver, senior associate in the Professional Development Program, Center for the Study of Data Processing, has been promoted to assistant director of the center's Professional Development Program and Technical Training Program. Oliver joined the center in 1979 from the Department of Radiation Oncology at the WU School of Medicine.

The center is a consortium including WU and 25 major St. Louis institutions and corporations which conducts research and trains senior management, data processing management, development staffs and individuals in data processing.

David P. Pascoe, assistant professor of audiology, Department of Speech and Hearing, was invited to Bogata, Colombia, Feb. 25-28 to present a seminar on hearing aids for the XX National Congress of Otolaryngology. He was also made an honorary member of the association.

Kenneth A. Shepsle, professor of political science, and Barry R. Weingast, assistant professor of economics, were awarded the Duncan Black Prize for their paper, "Structure-Induced Equilibrium and Legislative Choice."

Presented March 6 in San Antonio, Tex., at the annual meeting of the Public Choice Society, the prize is given for the best published paper on a topic in public choice, a field that blends politics and economics.

Shepsle and Weingast are both research associates of the Center for the Study of American Business.

Mildred Trotter, professor emeritus of anatomy and neurobiology, was awarded the section award in physical anthropology at the 34th annual meeting of the American Academy of Forensic Sciences Feb. 10 at Orlando, Fla. She was cited for her research in anatomy and its application to forensic analysis and in physical anthropology.

Robert C. Williams, professor of history and dean of University College, represented WU at the March 25-26 at an Association of American Colleges and American Council on Education symposium on "The Role of the Academy in Addressing the Issues of Nuclear War" in Washington, D.C. His book, *Russian Art and American Money 1900-1940*, appeared in paperback in March with Harvard University Press. On May 6 he will give the Honors Convocation Address at Washington and Jefferson College in Pennsylvania, as a 1982 Phi Beta Kappa Associates Visiting Lecturer.

East St. Louis mayor speaks at WSWU spring luncheon

Carl E. Officer, mayor of East St. Louis, Ill., will speak at the Women's Society of WU Annual Spring Luncheon on Thursday, April 29, at 12:30 p.m. in the Ann Whitney Olin Women's Bldg. Lounge.

The luncheon and lecture are open to the WU community. Tickets are \$6 and can be purchased by calling WSWU's secretary, Lou Emser, at 889-5295.

Officer, the youngest mayor of a metropolitan city at the time of his inauguration in May 1979, will speak on "East St. Louis: Issues and Answers."

New pool at Millbrook complex opens May 1

The Old Farmer's Almanac predicts a hot summer for St. Louis, so WU faculty, staff and students will be relieved to hear that a new outdoor pool will open at the Millbrook Apartments complex May 1.

The pool, which will remain open until Sept. 26, is 30 feet wide, 60 feet long and between three and four feet deep. The pool is surrounded by a bathhouse with shower and toilet facilities. A shallow wading pool for children has also been installed.

Membership for use of the pool is open to all WU faculty, staff and students and their families. A season's pass

is \$25 for an individual and \$50 for a family. Guests will be charged \$2 a day. Special passes will be issued for groups and conferences. The pool is free to all WU students.

WU students will be employed as lifeguards and pool attendants. The pool will be maintained in compliance with all St. Louis County health and safety regulations in Midwest Pools of St. Louis.

The pool will be open from 11 a.m.-8 p.m. every day except days following holidays. For membership information, call Apartment Housing and Referral Service at 889-5092.

Calendar

Thursday, April 22

11 a.m. Department of Civil Engineering Seminar, "Probabilistic Methods for the Design of Beams, Columns and Beam-Columns," T.V. Galambos, dept. of civil and mineral engineering, U. of Minn. 216 Urbauer.

11 a.m.-2 p.m. Israel Culture Fair Street Bazaar. Bowles Plaza. (Also Fri., April 23, 11 a.m.-1 p.m.)

1 p.m. George Warren Brown School of Social Work Panel Discussion, "Strategies for Primary Prevention," with Sandy Mandel, Lisa Styles, Marsha Johnson, Dan Bass, Paula Gianino and Patricia Dunn, WU School of Social Work primary prevention trainees. Brown Hall Lounge.

3 p.m. Black Studies Program Lecture, "Negro Subversion-Black Activism and the Federal Government During World War I," Gerald W. Patton, dir., Black Studies Program. 349 McMillan.

4 p.m. School of Architecture Lecture, "Carceri," William B. Bricken, WU visiting assoc. prof. of architecture. 116 Givens Hall.

4 p.m. Department of Chemistry Lecture, "Metal-Ion Oxidations-Kinetics and Mechanisms," Samir B. Hanna, dept. of chemistry, U. of Mo.-Rolla. 311 McMillan Lab.

7 p.m. Department of Philosophy Colloquium, "Overcoming Metaphysical Hell," Robert Oakes, prof. of philosophy, U. of Mo.-Rolla. Hurst Lounge, Duncker Hall.

7:30 p.m. Comparative Policy Colloquium, "The Evolution of Tax Structures," James Alt, WU assoc. prof. of political science. Women's Building third floor lounge.

8 p.m. Israel Culture Fair Exhibition with Hora Hallel, a St. Louis Israeli dance troupe. Bowles Plaza.

8:15 p.m. Asian Art Society Lecture, "Chinese Jade Collectors Through The Ages," James Watt, visiting curator of Asiatic art, Museum of Fine Arts, Boston. Steinberg Hall Aud.

Friday, April 23

2 p.m. Assembly Series and Campus YMCA/YWCA Lecture, "The Shroud of Turin: Is It Authentic?" Gary R. Habermas, assoc. prof. of apologetics and philosophy, Liberty Baptist College, Va. and coauthor of *Verdict on the Shroud: Evidence for the Death and Resurrection of Jesus Christ*. 201 Crow. (Also 7 p.m., "The Shroud of Turin: Evidence for the Death and Resurrection of Jesus Christ," 201 Crow.)

7 p.m. Israel Culture Fair Dinner. Hillel House, 6300 Forsyth Blvd. For reservations, call 726-6177.

Saturday, April 24

9 a.m. Neural Sciences Program Lecture, "Interspecies Transplants in the Study of Neural Crest Derivatives," Arnold Kahn, WU prof. of anatomy in biomedical sciences, School of Dental Medicine. 928 McDonnell Medical Sciences Bldg., 4570 McKinley.

11 a.m. Saturday Seminar Series, "The Liberal Arts and the Educated Individual," George Pepe, WU assoc. prof. of classics. Sponsored by University College's Master of Liberal Arts Program. Women's Bldg. Lounge.

Monday, April 26

4 p.m. Department of Biology Lecture, "Regulatory Genes and Ecological Niches," Michael Savageau, dept. of microbiology, U. of Mich., Ann Arbor. 322 Rebstock.

4 p.m. Department of Sociology Seminar, "Black Sports and Upward Mobility," Robert Watson, WU instructor in black studies. 219 McMillan.

4:30 p.m. Assembly Series Lecture, "On El Salvador," Sen. Patrick Leahy, (D-Vt.) Cosponsored by the St. Louis Council on World Affairs and the United Nations Association. Graham Chapel.

7:30 p.m. Israel Culture Fair Lecture, "Israel After the Withdrawal from Sinai," Madeline Stifel, American-Israel Public Affairs Committee, Washington, D.C. Women's Bldg. Lounge.

8:30 p.m. School of Architecture Lecture, "Design Methodology and Representative Projects," Gunnar Birkerts, Detroit architect. Steinberg Hall Aud.

Thursday, April 27

7:30 p.m. International Development Program Lecture, "Reconstruction and Construction in Nicaragua," Charles Downs, research assoc., Institute for International Studies, U. of Calif.-Berkeley. Lambert Lounge, Mallinckrodt.

Wednesday, April 28

11 a.m. Arthur Holly Compton Memorial Lecture, "Impact of Nuclear Technology on International Law," Bert V.A. Roling, chair of international law, U. of Groningen, and chairman, Advisory Council, Dutch Institute for Peace Problems. Cosponsored by the Assembly Series. Graham Chapel.

4 p.m. Department of History Panel Discussion with Quentin Skinner, WU Visiting Lewin Professor in the Humanities, and John G.A. Pocock, prof. of history, Johns Hopkins U. Hurst Lounge, Duncker.

4 p.m. Microbiology and Immunology Research Seminar, "Defective Interfacing Particles of the Vestibular Stomatitis Virus and Regulation of Viral RNA Synthesis," Jacques Perrault, WU asst. prof. of microbiology and immunology. 509 McDonnell Medical Sciences Bldg., 4570 McKinley.

4 p.m. Department of Physics Colloquium, "Petroleum Geochemistry: The Generation and Migration of Oil," Richard Drozd, Sohio Research Center, Ohio. 201 Crow.

8 p.m. WU Writers' Program Fiction and Poetry Reading of original works by program students. Hurst Lounge, Duncker.

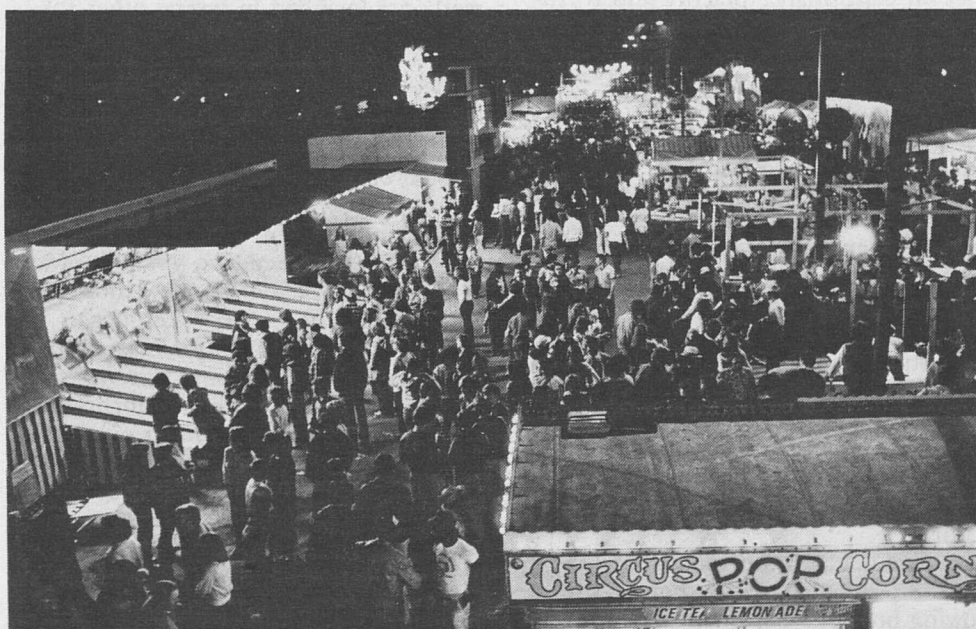
Thursday, April 29

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.



Thurtene Carnival, WU's annual rite of spring, will be held on Friday and Saturday, April 23 and 24, on the campus parking lot at Big Bend and Forsyth Blvds. The carnival will celebrate the 78th anniversary of the founding of Thurtene, the junior men's honorary society at WU, with midway games, original musical skits, concessions, rides and a wide variety of sideshow activities. St. Louis Mayor Vincent C. Schoemehl, Jr., has proclaimed the week of April 19-25 "Thurtene Carnival Week." The Carnival attracts over 80,000 people every year, and Thurtene donates the proceeds to local charities. Carnival hours are 6 p.m.-midnight Friday and noon-midnight Saturday. In the event of rain, the Carnival will resume on Sunday.

4 p.m. Cellular and Molecular Programs Lecture, "The Diatom Spindle: A Valuable Model for Studying Mitosis," Jeremy D. Picket-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. 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 McMillan 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.

Music

Thursday, April 22

8 p.m. WU Department of Music Graduate Voice Recital, Denise Smith, soprano. Graham Chapel.

Sunday, April 25

8 p.m. Department of Music Faculty Recital, Laurence Dreyfus, WU asst. prof. of music, viola da gamba; and Nicholas McGegan, WU artist-in-residence, harpsichord. Works by J.S. Bach, Simpson, Hume and Marais. Holmes Lounge.

Monday, April 26

7 p.m. Department of Music Voice Recital, Ann Duraski and Janet Goedeke, mezzo sopranos, and Lesley Tucker, soprano. Graham Chapel.

Wednesday, April 28

8 p.m. WU Choir Concert, directed by Orland Johnson, WU prof. of music. Graham Chapel.

Thursday, April 29

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

Saturday, May 1

8 p.m. Department of Music Graduate Student Recital with Jeff Noonan, lute. McMillan Cafeteria.

Films

Thursday, April 22

7:30 and 9:15 p.m. WU Filmboard Series, "Cousin Cousine." \$2. Brown Hall Aud.

Friday, April 23

7:30 and 9:45 p.m. WU Filmboard Series, "For Your Eyes Only." \$2. Brown Hall Aud. (Also Sat., April 24, same times, Brown.)

Midnight. WU Filmboard Series, "Boy and His Dog." \$1. Brown Hall Aud. (Also Sat., April 24, midnight, Brown.)

Monday, April 26

7:30 and 9:30 p.m. WU Filmboard Series, "Casino Royale." \$2. Brown Hall Aud.

Tuesday, April 27

7:30 and 9:30 p.m. WU Filmboard Series, "The Candidate." \$2. Brown Hall Aud.

Wednesday, April 28

7 p.m. Women's Film Series, "See What I Say," "Daughters Of Time" and "Five Women, Five Births." Gargoyle, Mallinckrodt. No charge.

7:30 and 9:45 p.m. WU Filmboard Series, "Lion in Winter." \$2. Brown Hall Aud. (Also Thurs., April 29, same times, Brown.)

8 p.m. School of Fine Arts Film, "Fourteen Americans: Directions of the '70s, Part II." Steinberg Hall Aud. No charge.

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.)

Performing Arts

Friday, April 23

8 p.m. Thyrsus Student Dance Concert, featuring original solo and emsemble works choreographed and performed by WU dance students. Edison Dance Studio. (Also Sat. and Sun., April 24 and 25.)

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. Directed by C. J. Zander, WU visiting professor of drama. Edison Theatre. Tickets are \$5; available at Edison Theatre box office, 889-6543. (Also Sat., May 1 and Sun., May 2, 8 p.m., Edison.)

Exhibitions

"19th- and 20-Century Masterpieces from the University Collection." Lower Gallery, WU Gallery of Art, Steinberg Hall, 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends, Through April 25.

"Master of Fine Arts Thesis Exhibition, Part II." 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." Print Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through May 9.

"Fools Are My Theme, Let Satire Be My Song." a collection of classical satire from Aesop and Aristophanes to Mark Twain and Kurt Vonnegut. Special Collections, fifth floor, Olin Library. 8:30 a.m.-5 p.m. weekdays. Through Aug. 31.

"Women Writers." Third floor, Olin Library. 8:30 a.m.-5 p.m. weekdays. Through May 9.

Sports

Friday, April 23

3 p.m. Men's Tennis, WU vs. Sangamon State U. Tennis Courts.

Saturday, April 24

11 a.m. Men's Tennis, WU vs. Principia College. Tennis Courts.

Monday, April 26

3 p.m. Men's Tennis, WU vs. Culver-Stockton College. Tennis Courts.

Saturday, May 1

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

Calendar Deadline

The deadline to submit items for the calendar period of May 6-15 is April 22. 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.

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