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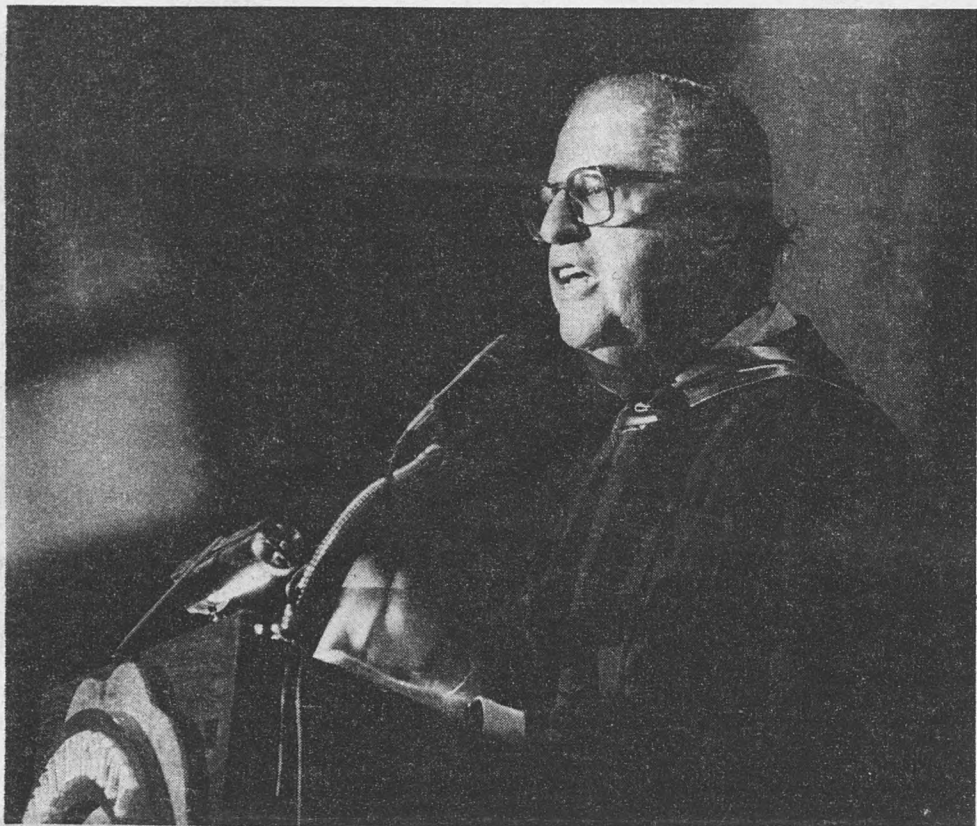
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Washington University Record

October 22, 1981



Former Israeli ambassador to the United Nations Abba Eban spoke to a large crowd of alumni and University friends Oct. 10 at WU's Founders Day banquet at Stouffer's Riverfront Inn. Speaking at a press conference earlier that day, Eban said that while the assassination of President Anwar Sadat of Egypt five days earlier represented a great loss to the Middle East, it will not cause a setback in peace initiatives between Egypt and Israel. He downplayed reports of violence in Egypt, saying that a quiet transition of power had taken place.

King to lead workshop on racism; part of new Campus Y initiative

On Thursday, Oct. 22, Charles H. King, Jr., director of the Urban Crisis Center in Atlanta, Ga., will speak at 11 a.m. in Graham Chapel on "Personal Prejudice and Strategies for Personal and Community Change."

In the afternoon, beginning at 1:30 p.m. in the Ann Whitney Olin Women's Building Lounge, he will conduct a three-hour workshop at which he will demonstrate his exercises and techniques for exploring racial prejudices. A number of WU administrators, faculty and student leaders and individuals from the community have been invited to sit on the panel and participate. Observers are welcome.

King's visit was organized last spring by Lisa Densmore, a 1981 graduate in social work, and is sponsored by the Interracial Awareness Committee of the Campus Y, Student Union and the Assembly Series. Cochairing the committee this fall are students Jackie Hullaby, John Toda and Angela Perry.

King lectures widely and holds workshops around the country on racial prejudice. A past chairman of the Gary, Ind., human rights commission, he appeared recently on the Phil Donahue Show and the NBC special, "America Black and White."

Part of the impetus to bring him to campus came from a sort of "philosophical housecleaning" conducted last January through March by the Campus Y.

The occasion for the Campus Y's intensive self-evaluation of its goals and effectiveness was the triennial accreditation review required of every student association connected with the national

YWCA, the Young Women's Christian Association (WU's Campus Y is also affiliated with the YMCA, the Young Men's Christian Association). A rigorous review of all facets of the Y's operations — staffing, programming, recruiting — was completed by committees of students and Campus Y board members.

Heather Needleman, assistant director, explained that committees of students and board members, through interviews and surveys, studied all aspects of the Y's past activities and goals and then wrote extensive reports.

"These reports were sent on to the national office, which sent representatives to campus to interview staff, administrators and faculty. After their review, we were given recommendations on how we were doing," she said. "It was a lot of work, but very beneficial. I think it's important for an organization to look carefully at itself from time to time."

The WU organization came out with high marks. The national YWCA found that goals set in 1977 — to develop community programs, offer training workshops for volunteers, attract more non-white students, and maintain a sound budget — had, for the most part, been accomplished. "All of this reflects our foremost purpose to fulfill student needs that are not being met elsewhere on campus, such as providing an opportunity for volunteerism and community involvement," Needleman said.

In 1980 another goal had to be considered, an initiative set by the national

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Beaumont visiting professor Gilliam brings 'Niagara' to Gallery

Sam Gilliam, who, according to Hugh M. Davies, director of the University of Massachusetts Gallery of Art, "is indisputably one of America's leading artists," is currently in residence as Visiting Distinguished Louis D. Beaumont Professor of Art at the School of Fine Arts.

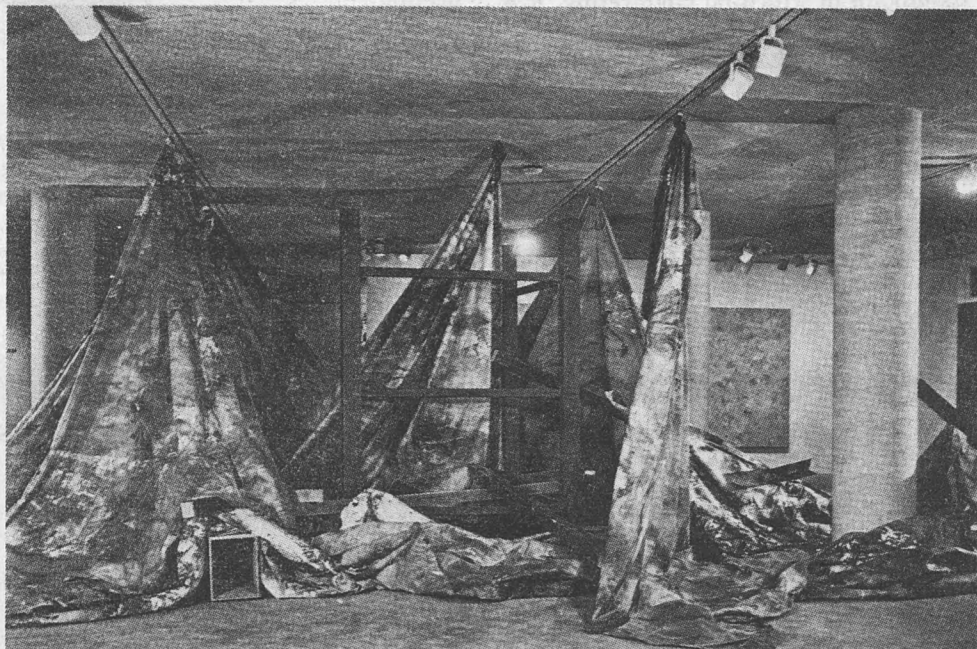
He will deliver a free, public lecture on his work at 8 p.m. Wednesday, Oct. 21 in Steinberg Hall auditorium. Following his talk, a major exhibition of his works will open with a reception in the WU Gallery of Art. "Niagara," one of Gilliam's best-known environmental constructions, will highlight this show, which will include other selections of his work. This show will run through Nov. 15.

Gilliam is supervising the installation of "Niagara," which consists of 150 feet of canvas draped over supporting objects such as ladders, scaffolding, rocks, ropes and other elements. It is being designed in relation to the spatial and architectural characteristics of the

Gallery of Art's upper gallery.

Davies, in his introduction to the 1978 Sam Gilliam one-man show at the University of Massachusetts, described "Niagara" as "one of the most ambitious and successful indoor constructions to date. It operates," he wrote, "like a veritable landscape with peaks of fabric suspended from the ceiling and raised on partially concealed timber supports while cascades of colored pigment run through the valleys of drapery." Davies added, "Like all his draped works, 'Niagara' is recomposed with each installation, acknowledging and incorporating the vagaries of new exhibition spaces. Gilliam's constructions and paintings alike draw their inspiration from an expressionistic heritage encompassing Schwitters' Merzbau and Pollock's gestural paintings."

Viewing hours at the Gallery of Art are: 10 a.m.-5 p.m. weekdays; 1-5 p.m. Saturday and Sundays. The exhibition and related activities are partially funded by the Missouri Arts Council and the School of Fine Arts.



Each installation of Gilliam's "Niagara" incorporates elements of its exhibition space. This version of the mixed media piece of painted polypropylene, wood, pipe, rope and rocks, was installed at the University Gallery, University of Massachusetts, Amherst, in 1977.

Academic, social, job-hunting skills explored in student workshops

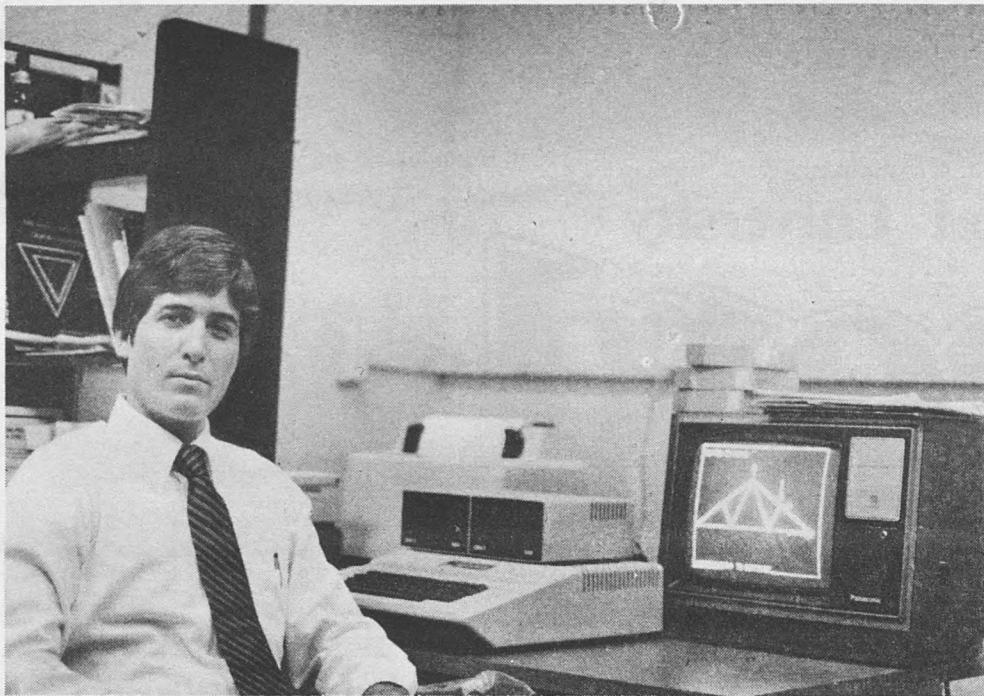
Student Educational Services, Career Planning and Placement and the Student Counseling Service, are offering workshops this semester to help students understand and solve academic and social problems and to plan for the years after graduation.

For students expecting to enter the job market soon, there are workshops on assertive skills for job seekers; job interviewing skills; women in the workplace; developing a network of employment contacts; and resume writing.

Academic topics include choosing a major; preparing for the GMAT, GRE and LSAT tests; dealing with academic pressures; solving problems; study and note-taking skills; rapid reading and memory improvement.

Workshops to help individual growth include those on how to reach out to others; value clarification; time and self management; relaxation training and old myths and new realities of sexuality.

Most workshops last for two hours and many will be repeated several times through Dec. 9. Registration procedures vary depending upon the sponsor, but a booklet describing all workshops is available at Student Educational Services, room 219 Umrath Hall, Ext. 5970. Other services in Umrath are: Career Planning and Placement, room 302, Ext. 5930; and the Student Counseling Service, room 216, Ext. 5980.



Graduate student in civil engineering Bernard Charles at a terminal displaying a graphic image used for engineering design. Charles designed the software for a junior-level course in structural design.

Color graphics program ends tedious calculations for engineers

In the past, when civil engineering students wanted to design anything from a truss to a bridge, they spent long hours making repetitious calculations and drawing hand-plotted curves.

But all that is changing thanks to a new computer system developed by the WU Department of Civil Engineering that rapidly executes routine calculations and displays the results in color graphics.

"The students now have more time to experiment with engineering decisions," said Phillip L. Gould, professor and chairman of the department. "You might say this system takes the tedious work out but leaves the learning in."

Computer-aided design is widely used by industry. An engineer can design a metal part, for example, hit it with a 100-pound hammer, heat it to 500 degrees and freeze it to arrive at stress and strength relationships, all through simulation on a computer screen. From the standpoint of structural engineering, it is perhaps the most important development in a decade. Yet the education of engineering students in utilizing computer-aided design has lagged behind.

One reason, said Gould, is the expense. Instructional computer graphics laboratories in some schools are multi-million dollar setups. Seeking an affordable alternative, the WU Department of Civil Engineering has come up with one of the first teaching-oriented computer

graphics systems on a microcomputer, similar to those sold for home use.

The task was undertaken by graduate student Bernard Charles under the guidance of Theodore V. Galambos, Harold D. Jolley Professor of Civil Engineering. Charles, who presented the project as the basis for his master's thesis in July, tailored the software (computer programs) for the computer lab section of a junior-level course, "Introduction to Structural Design." Another graduate student, Lee Edelmann, will expand and improve the software this fall. The entire system, including the computer and printer, costs about \$4,000 per work station.

In time, Gould hopes to heighten interest in the project through the 4C Consortium, a group of 12 universities (including WU) recently funded by the National Science Foundation for the purpose of developing software for teaching computer-aided design courses in engineering.

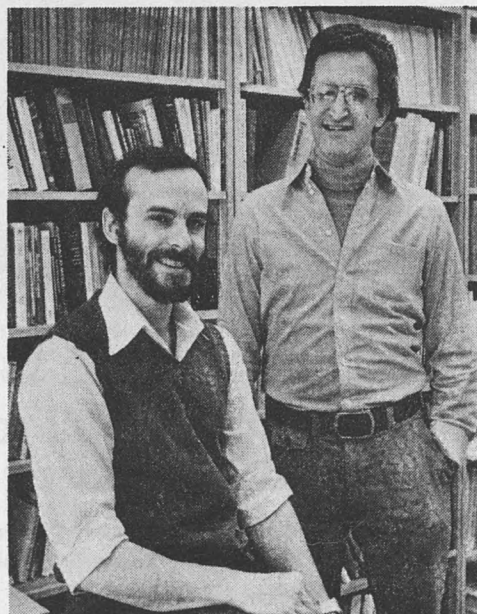
"Our goal is to bring computer usage into every undergraduate course here as far as possible," Gould said. He noted that the civil engineering department acquired four microcomputers last fall and may purchase one more this year. The color graphics displays and the specialized software make these particularly suitable for students who lack a deep knowledge of computers, he explained.

Two professors to study 'pork barrel'

Two WU faculty members, Kenneth A. Shepsle and Barry R. Weingast, have been awarded a two-year, \$100,000 grant from the National Science Foundation to study the politics and economics of the "pork barrel."

"We are interested in theorizing about the politics and economics of public policy in general and the pork barrel in particular," said Shepsle, a professor of political science. The term pork barrel refers to federal funds, intended for such projects as improving rivers and harbors, that are appropriated more often to affect local political patronage than to make real improvements.

Shepsle pointed out that the electoral arena pressures congressmen to seek out in the other arena, the legislature, economic windfalls to bring back to the district. "Politicians understand," Shepsle said, "that in order to get reelected, they must be able to answer the question first asked of Alben Barkley, former vice president of the United States, by an old Kentucky farmer — 'What have you done for me lately?'"



Weingast (left) and Shepsle

Shepsle and Weingast, an assistant professor of economics, also are interested in how broadly pork barrel projects are distributed among congressmen. "We are interested in learning whether they are captured mostly by the majority party or whether they are spread more broadly," Shepsle said.

Two graduate students, one in economics and the other in political science, will help the professors in their research.

Beck named Sigma Xi lecturer; interviews Iranian exiles for book

Lois Beck, WU assistant professor of anthropology, has been named a Sigma Xi National Lecturer for a two-year term beginning in 1982. A cultural anthropologist, Beck will speak on modern Iran and on Islam and politics in the Muslim world.

The Sigma Xi National Lectureship program selects outstanding researchers and scholars in the sciences who are presented to Sigma Xi chapters at universities and colleges across the country to lecture on some of the more lively areas of current research. Sigma Xi is a national honorary science society whose members include undergraduate and graduate students as well as practicing scholars.

Last spring, Beck was reelected executive secretary of the Society for Iranian Studies, an international professional organization devoted to the study of Iran. The organization publishes the journal, *Iranian Studies*. In addition, she is currently a nominee for the board of directors of the Middle East Studies Association of North America.

Beck, who lived and studied in Iran for many years, is editor (with Nikki Keddie of UCLA) of the book, *Women in the Muslim World*, a publication of Harvard University Press that is in its third printing and now available in paperback. Currently, she is completing a volume on the historical development of a tribal confederacy of nomadic pastoralists in Iran, based on anthropological field research in Iran, collected oral histories and interviews with contemporary tribal leaders, and British and American government documents. The tribal group involved, the Turkic-



Lois Beck

speaking Qashqa'i, is one of many national minorities that are currently resisting the central authority of the new Islamic Republic of Iran. Beck conducted research in Iran after the 1978-1979 revolution, and she has recently interviewed Iranian political leaders temporarily in residence in Europe.

Photographs of the Qashqa'i were exhibited this past spring at the Museum of Cultural History at the University of California, Los Angeles, and will be at the University of Washington in Seattle in November. The publication, *The Qashqa'i People of Southern Iran*, which accompanies the exhibit, was written by Beck.

Three political scientists to develop statistics courses with \$25,000 grant

Three WU political scientists have been awarded a three-year, \$25,000 grant by the National Science Foundation to develop new undergraduate courses on the mathematics and statistics of politics.

The three professors are James E. Alt, associate professor of political science, and John T. Woolley and Randall L. Calvert, both assistant professors of political science.

"We want to introduce freshmen and sophomores to quantitative methods that are used to make mathematical models and to perform statistical analysis," said Calvert, the project director. "If we can educate students early, they will be better able to consume current research in political science."

Most undergraduate courses teach concepts emerging from research, but not the methodology with which the research was conducted, he said.

Calvert said two of the new offerings will be one credit hour courses. "We're hoping this will entice the students to take the courses. Since it is low risk, they might decide to take a chance."

Part of the funds from the grant

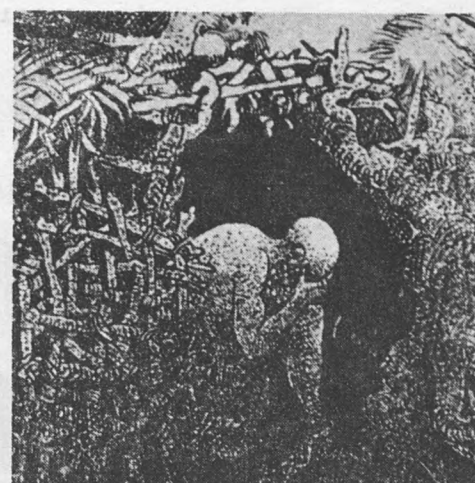
will be used to purchase two minicomputers. "We will write simulation programs so that the students can experiment with computer models concerning politics," Calvert said. "We hope that once the students use the computers, they won't be scared of them as much."

"Five years ago, using computers in political science courses was difficult," Calvert said. "Today the computers are easier to operate and are less expensive. We want to give the students so much exposure to the computer that they will lose whatever fears they have of it."

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

Two visions of despair are represented in these details of Rodolphe Bresdin's 1854 lithograph, "The Comedy of Death." Other graphic artworks by Bresdin are on display in the print gallery, WU Gallery of Art, Steinberg Hall, through Nov. 8. Gift of William N. Eisendrath, Jr., former director, WU Gallery of Art. See Calendar for viewing hours.



Campus Notes

Lucius J. Barker, Edna F. Gellhorn University Professor of Public Affairs and professor of political science, received a special award for his outstanding contributions to teaching, research, and service to the political science profession at the annual meeting of the American Political Science Association last month in New York City. The award was given by the APSA Committee on the Status of Blacks in the Profession. In addition to his teaching and scholarship, Barker has served the national organization in a number of capacities, including that of vice president in 1980.

Jerome R. Cox, Jr., professor and chairman of the Department of Computer Science, co-chaired an international conference, "Computers and Cardiology," Sept. 22-25 in Florence, Italy. The conference was sponsored by a number of organizations, including the National Institutes of Health, the European Cardiology Society and the Institute of Electronics and Electrical Engineers.

Sol L. Garfield, professor of psychology, received a Distinguished Scientist Award from the American Psychological Association's Section on the Development of Clinical Psychology as an Experimental Behavioral Science at the association's annual meeting in Los Angeles last August. As part of the award ceremony, Garfield delivered a lecture, "Some Current Issues in Psychotherapy" and participated in two symposia.

Also at the meeting, Jane Loevinger, professor of psychology, assumed the office of president-elect of Division 24, the Division of Theoretical and Philosophical Psychology.

Ira J. Hirsh, professor of psychology, is on leave this fall to serve as a special visiting professor at the University of Tsukuba, Japan. There, he will teach and guide research at the Institute of Research on the Handicapped and in the Faculty of Medicine. He will also lecture at several Japanese professional society meetings and at universities in Sendai, Nagoya, Tokyo, and Fukuoka.

The Department of Computer Science has received a \$16,800 grant from Standard Oil Co. of California. The funds will cover tuition for two students, a stipend for one graduate student and a departmental grant. The students are Robert Israel, a second-year graduate student, who received the Chevron Fellowship, and Nathan Schroeder, a senior in his final year of the 3-2 program, who received the Chevron Scholarship. The department also received a \$4,000 grant and tuition for Ralph Bender, a second-year graduate student and employee of Western Electric, under the company's Engineering and Science Fellowship Program.

Claude R. Marx, a junior in the College of Arts and Sciences, had an essay called "Narrow Thinking: A Habit Students and Universities Share" published in the September 30 issue of *The Chronicle of Higher Education*. Marx writes a weekly column called "Essay" for *Student Life*.

Max Okenfuss, associate professor of history, delivered a paper, "Continuities in 18th-Century Russian Education," at the 13th national convention of the American Association for the Advancement of Slavic Studies Sept. 20-23 in Monterey, Calif. Okenfuss recently published a monograph, *The Discovery of Childhood in Russia: The Evidence of the Slavic Primer*, that analyzes the changing attitudes of educators toward children in early modern Russia.

Stephen Sapareto, assistant professor of cancer biology in the Division of Radiation Oncology, Mallinckrodt Institute of Radiology, has been awarded a three-year, \$125,000 research grant by the National Cancer Institute for his study of the effect of hyperthermia (heat) on the immune system.

In a series of studies, Sapareto and his coinvestigators hope to provide new fundamental approaches to the immunotherapy of cancer and to further understanding of the interaction between the immune response and hyperthermia.

An article discussing the teaching methods of Barry Schactman of WU's School of Fine Arts has been prepared by Gerald Monroe of Glassboro State College in Glassboro, N.J. Entitled "Teaching Drawing: The Personal Approach of Barry Schactman," it appears in the Sept.-Oct. 1981 issue, Vol. III, No. 3 of *Drawing*, an international review, published by The Drawing Society.

Monroe analyzes Schactman's techniques and explains that his objective is to devise "a strategy to confront the twin weaknesses of the student's vision and its failure to establish the relationship between the elements comprising the visual field."

Frederick A. Valeriote, head of the cancer biology section, Division of Radiation Oncology, Mallinckrodt Institute of Radiology, is a coinvestigator on a three-year, \$900,000 research grant funded by the National Cancer Institute for the study of polyenes as biologic response modifiers.

Polyenes are a group of about 100 agents whose therapeutic effectiveness is increased when administered with true anti-cancer agents. Valeriote will study animal tumor models to determine which polyenes are most effective, the dose and schedule for administering the polyene and agents, and polyenes' interactions with normal and tumor cells.

WU professor of medicine Gerald Medoff, principal investigator of the project, will study the effects of polyenes on normal and tumor cells in culture.

Four diabetes seminars offered

Four seminars remain to be held of a five-part series on diabetes mellitus. These meetings, presented by the WU Diabetes Research and Training Center (DRTC), one of such ten centers in the country, and the University Health Service, will cover all aspects of the disease, its present treatment, and medical research and advances. The DRTC is a program of the National Institutes of Health.

Upcoming seminars will be held at 4 p.m. in Lambert Lounge, Mallinckrodt Center, on Oct. 21 and 28 and Nov. 4 and 11. The series opened with a semi-

nar on Oct. 14. The seminars are intended for people with diabetes and for family members and friends who want to become familiar with the latest advances in diabetes treatment. Other interested individuals are also welcome to attend.

Topics scheduled to be covered are: insulin, its effects, administration and side effects, Oct. 21; living with diabetes, including blood and urine glucose monitoring, diets, and handling emergencies, such as hypoglycemia, ketoacidosis and minor illnesses, Oct. 28; advances in the treatment of insulin-dependent diabetes, including improved forms of insulin, Nov. 4; and diabetes research at WU, covering information on the DRTC, and current research at the WU School of Medicine on islet transplantation and development of an artificial pancreas, insulin biochemistry and the genetics and immunology of diabetes.

Levi, Kavanaugh to appear on KMOX-TV

Albert W. Levi, David May Distinguished University Professor Emeritus in the Humanities, and one of his former students, John F. Kavanaugh, S.J., professor of philosophy at St. Louis University, will be featured the week of Oct. 26th (Monday through Friday) on Parker Wheatley's KMOX-TV (Channel Four) public affairs program. They will discuss the topic: "The Reagan Presidency: Human Values and Social Issues."

On each of five programs they will discuss a specific issue related to this overall theme. The subject, time and date of each segment is as follows: Monday, Oct. 26, "The Reagan Presidency: Religion and Politics," 12:50 a.m.; Tuesday, Oct. 27, "The Reagan Presidency: The Moral Majority," 1:15 a.m.; Wednesday, Oct. 28, "The Reagan Presidency: Abortion and the Dignity of Life," 1:15 a.m.; Thursday, Oct. 29, "The Reagan Presidency: Guns or Butter," 12:50 a.m.; and Friday, Oct. 30, "The Reagan Presidency: Human Rights as a World Issue," 12:30 a.m.



Ever watch a tree in the fall, trying to determine the exact day when it suddenly turns a blazing yellow or red? It can't be done; trees always surprise. Then, like magicians with sleight of hand, they'll drop their last leaves, catching you unawares again.

Calendar

OCTOBER 22-31

Thursday, October 22

11 a.m. Assembly Series Lecture, "Personal Prejudice and Strategies for Personal and Community Change," Charles H. King, Jr., director, Atlanta Urban Crisis Center. Graham Chapel.

1:30 p.m. Interracial Awareness Committee Workshop with Charles H. King, Jr. Ann Whitney Olin Women's Bldg. Lounge.

1:30 p.m. Orthopaedics Lecture, "Orthopaedic Trauma," E. Burke Evans, H. Relton McCarroll Visiting Professor and chairman, div. of orthopaedics, U. of Tex. Medical Branch, Galveston. Wohl Hosp. Aud., 4960 Audubon Ave.

3 p.m. George Brown School of Social Work Colloquium, "Mortality in Alcoholics: Risks and Causes of Death," Terri Combs Orme, WU social work postgraduate student. Brown Hall Lounge.

4 p.m. School of Architecture Lecture, "Past Shades, Future Directions," Lawrence M. Malcic, staff architect, WU Urban Research and Design Center. 116 Givens Hall.

4 p.m. Department of Chemistry Seminar, "Iron Porphyrins in Unusual Spin and Oxidation States," Harold Goff, dept. of chemistry, U. of Iowa. 311 McMillen Lab.

4 p.m. Department of Earth and Planetary Sciences Seminar, "Phase Equilibria and Petrogenesis of Some Extraterrestrial Magmas," John Longi, asst. prof., Yale U. 102 Wilson.

4:30 p.m. Department of Mathematics Colloquium, "On the Variety of Invariant Subspaces of a Finite Dimensional Linear Operator," Mark Shayman, WU prof. of systems sciences and mathematics. 199 Cupples I.

7:30 p.m. Department of Political Science Colloquium, "Secularization Patterns and Welfare State Development," Arnold J. Heidenheimer, WU prof. of political science. Ann Whitney Olin Women's Building third floor lounge.

Friday, October 23

9 a.m. Orthopaedics Lectures, "Internal Fixation Devices," E. Burke Evans, div. of orthopaedics, U. of Tex. Medical Branch. Also 1:30 p.m., "Some Ideas on Degenerative Joint Diseases." Wohl Hosp. Aud., 4960 Audubon Ave. 9 a.m., Sat., Oct. 24, "Lower Extremity Surgery in Cerebral Palsy," Shriners Hosp., 2001 S. Lindbergh.

3 p.m. Department of Technology and Human Affairs Seminar, "Challenge for the Decade: Hazardous Waste Management Technologies," Sandra Jerabek, director, Coalition for the Environment. 104 Lopata.

Saturday, October 24

8 p.m. Beaux Arts Costume Ball, sponsored by WU School of Fine Arts. Live band and refreshments provided. Open to the public. Ticket are \$3 at the door, Bixby Hall Gallery.

Sunday, October 25

6:15 p.m. International Sunday Night Dinner, featuring dishes from various parts of the world. Sponsored by Student Union and Cosmo International Club. Advance tickets are \$3.50; \$3 for WU faculty and staff; \$2.50 for WU students. Tickets available at International Office, Cathy Steiner, Ext. 5904. Stix International House, 6470 Forsyth Blvd.

Monday, October 26

4 p.m. Department of Sociology Lecture, "Drug Abuse in Western Europe," Marc Marival, director, Drug and Alcohol Center, Rotterdam. 219 McMillan.

8 p.m. Department of Music Lecture, "Algorithmic Composition: Piloting an Esthetic Engine," Gary Nelson, assoc. prof. of music, theory and technology, Oberlin College. Tietjens Rehearsal Hall.

8:30 p.m. School of Architecture Lecture, "Theological Contrasts in Eastern and Western Architecture," Rev. Morris B. McNamee, director, Cupples House, and prof. of art history, St. Louis U. Steinberg Hall Aud.

Wednesday, October 28

11 a.m. Assembly Series Lecture, "Soviet Imperialism and Euro-Communism," Richard N. Gardner, prof. of law and international organization, Columbia U. and former U.S. ambassador to Italy. Graham Chapel.

11 a.m. Department of Civil Engineering Seminar, "Limit Load Calculation of Shells, Especially Cooling Tower Shells," Udo Wittek, U. of Ruhr, Bochum, W. Ger. 216 Urbauer.

1 p.m. Center for the Study of American Business Accounting Workshop, "Auditors and the Determination of Accounting Standards," Jerold Zimmerman, U. of Rochester. 300 Eliot.

3:30 Department of Mathematics Analysis Seminar, "Applications of Carleson Measures to Partial Differential Equations," Raymond Johnson, U. of Md. 203 Cupples I.

7:30 p.m. Department of Black Studies Lecture, "U.S.-Southern Africa Policy," Randall Robinson, executive director, Transafrica. 458 Louderman.

8 p.m. Department of English Fiction Reading, with Lamar Herrin, WU Visiting Hurst Professor, reading from his own work. Hurst Lounge, Duncker.

Thursday, October 29

4 p.m. Department of Chemistry Lecture, "Synthesis and Structure of New Molybdenum Cluster Compounds," Robert E. McCarty, dept. of chemistry, Iowa State U. 311 McMillen Lab. (3:30 p.m. coffee hour, 561 Louderman.)

4 p.m. Department of Earth and Planetary Sciences Seminar, "Some Alkaline Basaltic Rocks from Antarctica," Samuel Treves, chairman, dept. of geology, U. of Neb.-Lincoln. 102 Wilson Hall.

4:30 p.m. Department of Mathematics Colloquium, "Convolutions of Univalent Functions," Terry Sheil-Small, U. of York, England. 199 Cupples I.

7:30 Department of Political Science Comparative Policy Colloquium, "Political Institutional Analysis and the Inflation of the 1970's," Leon Lindberg, prof. of political science, U. of Wis., Madison. Ann Whitney Olin Women's Building third floor lounge.

Friday, October 30

11 a.m. Department of Civil Engineering Seminar, "Analysis of Large Displacements and Postbuckling Behavior of Thin Walled Structures by Means of Geometrical Methods," Stanislaw Lukaszewicz, dept. of mechanical engineering, U. of Calgary. 216 Urbauer Hall.

1 p.m. Department of Technology and Human Affairs Seminar, "The Technology, Strategy and Effects of Nuclear War," Michael Friedlander and Don Bolef, WU profs. of physics. 104 Lopata.

4 p.m. Twenty-third Shaffer Lecture, "Transduction of New Genetic Information into Mammalian Cells," Paul Berg, dept. of biochemistry, Stanford U. Medical Center, Calif. Sponsored by the Dept. of Biological Chemistry. Carl V. Moore Aud., first floor, N. Bldg., 660 South Euclid. (3:30 p.m. coffee hour.)

Performing Arts

Saturday, October 24

7 p.m. Edison Theatre Series, "Court Dance Theatre and Music from Okinawa." Edison Theatre. Tickets are \$6 general admission; \$4.50 for area students, WU faculty and staff; and \$3 for WU students, tickets available at Edison Theatre box office, Ext. 6543.

Exhibitions

Selections from the Permanent Collection, Lower Gallery, WU Gallery of Art, Steinberg Hall, through Nov. 1. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Refracted Color: Literature and the Arts from the Gert von Gontard Collection." Special Collections, Olin Library, level five. 8:30 a.m.-5 p.m. Monday-Friday. Through Dec. 29.



"Court Dance Theatre and Music from Okinawa" will be presented by a troupe of Japanese performers at 7 p.m. Saturday, Oct. 24, in Edison Theatre. The ensemble is making its first North American tour under the auspices of the Asia Society of New York.

"The Graphic Art of Rodolphe Bresdin." Print Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through Nov. 8.

"Sam Gilliam: Niagara." Gilliam, WU Visiting Distinguished Louis D. Beaumont Professor of Art, will install his environmental construction, "Niagara," consisting of 150 feet of canvas draped over various supporting objects. Other Gilliam work is also on display. Funded by the Missouri Arts Council and the WU School of Fine Arts. Upper Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through Nov. 15.

Music

Friday, October 30

12 noon. WU Department of Music Wind Ensemble Pops Concert. Chesterfield Mall, Highway 40 and Clarkson Rd. No charge.

8 p.m. Department of Music Graduate Recital, Mauréen O'Day, soprano, and John Bollinger, piano. Mozart, Warlock, Quilter and Schumann. Graham Chapel. No charge.

Films

Thursday, October 22

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

Friday, October 23

7:30 and 9:45 p.m. WU Filmboard Series, "The Stunt Man." Brown Hall Aud. \$2. (Also Sat., Oct. 24, same times, Brown.)

Midnight. WU Filmboard Series, "Slaughterhouse Five." Brown Hall Aud. \$1. (Also Sat., Oct. 24, midnight, Brown.)

Calendar Deadline

The deadline to submit items for the calendar period of Nov. 12-Nov. 21 is Oct. 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 title of the event. Those submitting items, please note name and telephone number. Address items to Susan Kesling, calendar editor, Box 1142.

Monday, October 26

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

Tuesday, October 27

7:30 and 9:45 p.m. WU Filmboard Series, "Cool Hand Luke." Brown Hall Aud. \$2.

Wednesday, October 28

7 p.m. Women's Film Series, "Battered Women: Violence Behind Closed Doors," and "Wifebeating." Gargoyle, Mallinckrodt Center. No charge.

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

Friday, October 30

8:30 p.m. WU Filmboard Series, "The Shining." Brown Hall Aud. \$2. (Also Sat., Oct. 31, same times, Brown.)

Midnight. WU Filmboard Series, "Psycho." Brown Hall Aud. \$1. (Also Sat., Oct. 31, midnight, Brown.)

Sports

Thursday, October 22

3:45 p.m. Women's Tennis, WU vs. Fontbonne College. WU Tennis Courts.

Friday, October 23

6 p.m. Women's Volleyball, WU vs. Greenville and Maryville colleges. Women's Bldg. Gym.

7 p.m. Soccer, WU vs. Cornell College. Francis Field.

Saturday, October 24

10:30 a.m. Women's Tennis, WU vs. Principia College. WU Tennis Courts.

7 p.m. Homecoming Football, WU vs. Principia College. Francis Field. Tickets \$3; WU students free.

Friday, October 30

7 p.m. Soccer, WU vs. Lindenwood College. Francis Field.

Saturday, October 31

11 a.m. Women's Volleyball, WU vs. Fontbonne College. Women's Bldg. Gym.

7 p.m. Football, WU vs. DePauw University. Francis Field. Tickets \$3; WU students free.