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Washington

WASHINGTON UNIVERSITY IN ST. LOUIS

Vol. 11 No. 10/Oct. 23, 1986



William Raymond, a member of the Mabou Mines, portrays General Ulysses S. Grant in the production of "Cold Harbor." The performance will be held at 8 p.m. Saturday, Nov. 1, in Edison Theatre.

Award-winning production recounts General Grant's life

Mabou Mines, the exploratory theatre company in residence at the New York Shakespeare Festival, will perform "Cold Harbor" at 8 p.m. Saturday, Nov. 1, in Edison Theatre.

The production is a Mid-America Arts Alliance Program, with support from the Regional Arts Commission.

Based on the life of Ulysses S. Grant, "Cold Harbor" places the famous general within a contemporary historical museum. Enclosed in a shattered glass display case, the wax figure of Grant, portrayed by William Raymond, confronts his failures and successes while challenging his audience to an examination of the themes of war and national purpose. Grant steps out of his case to drink, reminisce and give a first-hand, blood-stained account of his life and times.

Marilyn Stasio of the New York Post describes the performance as "... the beautiful, bleak study of a

man who made war when he never loved it ... a mysterious and extraordinary moving performance."

The Obie Award-winning production has been performed at New York's Public Theatre and the American Center in Paris. Mabou Mines has toured extensively in the United States, Canada, West Germany, Australia, Yugoslavia and Japan. Jack Kroll of Newsweek calls Mabou Mines "... the best American experimental theater."

This program is made possible by support from the Missouri Arts Council and the National Endowment for the Arts, through their participation in Mid-America Arts Alliance, a regional arts organization.

Tickets for "Cold Harbor" are \$15 to the general public, \$10 to faculty/staff and senior citizens and \$7 for students. For more information, call the box office at 889-6543.

Nobel laureates

Levi-Montalcini, Cohen share prize for pioneering research here

Rita Levi-Montalcini, M.D., professor emerita of biology at Washington University, has received the 1986 Nobel Prize for physiology or medicine as a result of her pioneering research on the so-called "nerve growth factor" (NGF) begun in 1947. She conducted her research for 30 years in the Washington University Department of Zoology (later renamed the Department of Biology) and retired in 1977. Sharing in the prize with her is Stanley Cohen, Ph.D., a biochemist who worked with her at Washington University from 1953 until 1959.

The two Nobel laureates were brought to Washington University by the distinguished chairman of the Department of Zoology, Viktor Hamburger, Ph.D., who today is the Edward Mallinckrodt Distinguished Professor Emeritus of Biology. He saw great potential in Levi-Montalcini's initial work in neuroscience and asked her to join the faculty shortly after World War II.

In 1951, four years after her appointment, Levi-Montalcini discovered nerve growth factor and in 1954 isolated it in collaboration with Cohen. She continued her research on nerve growth factor during her entire tenure at Washington University. She and Hamburger made many important additional discoveries about nerve growth factor, which increases the size of the nerve cell ganglia that control constriction of blood vessels, gland secretions, heart rate and other involuntary visceral functions.

Both Hamburger and Levi-Montalcini have received numerous national and international prizes for their science, including the 1985 Ralph W. Gerard Prize (the leading award for neuroscience); the 1983 Horwitz Prize for research in biology and biochemistry offered by Columbia University; and many more. Levi-Montalcini and Cohen recently were among six winners of the 1986 Albert Lasker Awards for medical research and public service. They won the Lasker Basic Medical Research Award.

NGF is a protein produced by salivary glands that is important for the growth and survival of certain types of nerve cells. Levi-Montalcini also found that NGF guides nerve fibers to their destination.

The study of NGF laid the ground work for the discovery of many other growth factors, among them the epidermal growth factor, for which Cohen shared the Nobel Prize.

In explaining possible consequences of these discoveries, Hamburger said, "The genes for the epidermal growth factor and for tumors seem to be related and this connection may in the future become important for cancer research. The nerve growth factor also may become important for research on growth and regeneration in the nervous system."

During the latter part of her career at Washington University, Levi-

Montalcini commuted to Italy to work at the Cell Biology Institute in Rome, where she is now director of research, and is still conducting research on NGF. She continues to hold full faculty privileges at Washington University as professor emerita. Hamburger continues to do his research at Washington University, even though he has been officially retired for many years. He regularly works in his laboratory, as does Levi-Montalcini in Italy. Cohen is a biochemist at Vanderbilt University Medical Center in Nashville, Tenn.

"Washington University is proud of Drs. Levi-Montalcini and Cohen for their research in nerve growth factor — research that began here nearly four decades ago. They set in motion one of the most important avenues of neuroscience research and richly deserve this recognition," said Maxwell Cowan, M.D., Ph.D., provost of Washington University and a world-renowned neuroscientist and editor of the *Journal of Neuroscience*.

The Nobel award to Levi-Montalcini and Cohen bring to 18 the number of Washington University faculty, former faculty and alumni who have won Nobel Prizes.



Rita Levi-Montalcini



Stanley Cohen



Modern dinosaurs: The Dinosaur Dance Company will perform at 8 p.m. Oct. 24 and 25 in Edison Theatre. Founded in 1968, Dinosaur is Boston's oldest and best-known modern dance company. The 16-member troupe is known for its technical ability and diverse repertoire. For ticket information, call 889-6543.

Irish novelist to read works

Irish novelist and short story writer Edna O'Brien will read and comment on her current and in-progress fiction at 11 a.m. Wednesday, Oct. 29, in Graham Chapel. The reading, part of the Assembly Series, is free and open to the public.

O'Brien's first novel, *The Country Girls*, a story of two young



Edna O'Brien

women who leave their childhood country homes for the city life of Dublin, received the Kingsley Amis award in 1960 and was adapted to film in 1983. The story of the two friends was later developed into a trilogy with the novels *The Lonely Girl* and *Girls in Their Married Bliss*.

O'Brien's other writings include the best seller *A Fanatic Heart*, a

volume of short stories; "The Wicked Lady," a screenplay; *The Dazzle*, a children's book; and "Home Sweet Home," a play. She also has written *Mother Ireland*, a book of nonfiction.

Los Angeles Times book reviewer Charles Champlin terms O'Brien's work, "Lyrical, painful, personal and occasionally slyly amusing . . . O'Brien writes with a graceful, poetic simplicity, a soft and mesmerizing brogue audible in every cadence."

The themes of O'Brien's stories are female sensuality, male treachery, Irish nostalgia and celebration of good times, which even her abused and self-abusing heroines enjoy.

O'Brien was born in County Clare in the west of Ireland, but has lived in London, where she first began to write, for more than 20 years.

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

Concert features 20th-century music

A concert of 20th-century music will be presented by the Washington University Department of Music and the New Music Circle at 8 p.m. Monday, Oct. 27, in Edison Theatre.

The concert features mezzo soprano Mary Henderson, artist-in-residence at the University, and will be conducted by Robert Coleman, applied music instructor at the University and a clarinetist with the St. Louis Symphony.

The program includes works by Viennese composer Anton Webern,

American composer Charles Ives and St. Louis composers Michael Ludwig and Roland Jordan, associate professor of music at Washington University.

Webern's Concerto, opus 24 (for nine instruments) will be performed, as well as Ludwig's "Illustrations — Meditative," and Jordan's "from Maps: E.E. Cummings Songs."

Tickets for the concert are \$6.50 for the general public, and \$5 for students. For more information, call 889-5581.

Memorial service held for Fred C. Reynolds

A memorial service for Fred C. Reynolds, M.D., was held Oct. 14 in Graham Chapel. Dr. Reynolds, professor emeritus of orthopedic surgery and Team Physician Emeritus of the St. Louis Football Cardinals, died of cancer Oct. 10 at St. John's Mercy Medical Center.

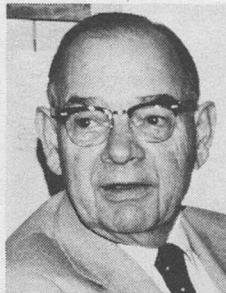
Dr. Reynolds had been on the faculty of the Washington University School of Medicine for more than 30 years, 17 of them as chairman of the Division of Orthopedic Surgery, and was internationally recognized for his contributions to orthopedic surgery and to sports medicine.

During his tenure at Washington University, he held appointments at Barnes and Children's hospitals. He was a member of many professional organizations serving as president of both the American Academy of Orthopedic Surgeons and the American Board of Orthopedic Surgery.

Dr. Reynolds retired as a physician for the football Cardinals in 1977. In 1979 an endowed chair was established in his honor. Approximately \$650,000 was raised by a committee of prominent St. Louis civic and business leaders to endow the Fred C. Reynolds Chair of Or-

thopedic Surgery at the School of Medicine.

Chancellor William H. Danforth said, "The medical community as well as the entire city of St. Louis has lost a highly skilled physician who was dedicated to the welfare of all. He loved people and was instrumental in the cure and physical rehabilitation of thousands. I know I speak on behalf of the entire medical community and all of his friends and former patients in expressing our sorrow in his passing. He will be missed."



Fred C. Reynolds

He is survived by his wife, the former Phyllis Terry, and three children, Barbara Lingle, Maryanne Krey and a son, Fred Jr.

The family requests that remembrances may be made to the Fred C. Reynolds Chair of Orthopedic Surgery at the Washington University School of Medicine, Campus Box 1082, St. Louis, MO 63130.

Applications for Steedman Fellowship in architecture accepted until Dec. 15

Applications for the Steedman Fellowship at Washington University are now being accepted, according to Constantine E. Michaelides, dean of the School of Architecture.

The fellowship provides \$11,000 to an architect, age 21 to 33, who has graduated from an accredited school, for a year of travel and architectural study abroad. The winner of the competition will be recommended as a Fellow in the American Academy in Rome.

Founded in 1925, the fellowship was named for James Harrison Steedman, an 1889 graduate of Washington University. Steedman died after serving in the U.S. Naval Reserves during World War I.

Applications for the fellowship will be accepted through Dec. 15, 1986. Entries will be juried in February 1987, during "Steedman Week" at Washington University.

A committee was appointed to review the scholarship following the death in April 1985 of James W. Fitzgibbon, professor of architecture at Washington University, who had guided the fellowship for many years. The fellowship was not awarded in 1985-86.

The committee has recommended that a Steedman II prize be established for Washington University graduate students, in association with the Fountainebleau Association/France. The prize will provide annually a \$3,000 fellowship for participation in an eight-week summer program based in Fountainebleau, France. Guidelines of the prize will be developed by the Steedman Governing Committee.

The three-member Steedman Governing Committee for 1986-87 includes: Louis R. Saur, president of Louis R. Saur & Associates Inc., representing the St. Louis Chapter of the American Institute of Architects; Ed-

ward M. Baum, associate professor of architecture, representing the School of Architecture. (Because Baum will be on sabbatical, Michaelides will serve on the committee in his absence); and Fred F. Guyton Jr., president and chairman of the board of Peckham, Guyton, Albers & Viets Inc., selected by the committee as chairman.

For more information about the fellowship, write to: Steedman Committee, School of Architecture, Washington University, St. Louis, MO 63130-4899.

RECORD

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NOTABLES

Deirdre Boden, Ph.D., assistant professor of sociology, recently has returned from England where she participated in an interdisciplinary conference on the work of Erving Goffman at the University of York. She also visited sociology departments at Manchester University and the University of Warwick, and was a guest at King's College, Cambridge.

Saul Boyarsky, M.D., J.D., professor of surgery, co-authored a letter to the editor, titled "A Possible Cause of Hematuria in Patients Taking Warfarin," which appeared in a recent issue of the New England Journal of Medicine.

Kathleen F. Brickey, J.D., professor of law, has published a 1986 supplement to her treatise titled *Corporate Criminal Liability*. The supplement contains a new chapter on civil RICO. She also has written an article titled "Forfeiture of Attorneys' Fees: The Impact of RICO and CCE Forfeitures on the Right to Counsel" in Vol. 72 of the 1986 *Virginia Law Review*.

Elizabeth Burton, a doctoral candidate in the Department of Earth and Planetary Sciences, received an outstanding mention grant from the Geological Society of America for her 1986/87 field research project, titled "Pore Water Geochemistry and Early Diagenesis of Shallow Marine Carbonates." Of the 168 research grants awarded by the society for 1986, only 20 of the recipients received outstanding mention awards. The recipients were chosen out of 624 student and professional applicants.

Thomas A. Harig, director of General Services, recently was elected for a three-year term to the board of directors of the University Risk Management and Insurance Association. The association is composed of risk and insurance managers representing higher education from across the nation. The association provides opportunities for familiarizing university insurance managers with current developments in the insurance industry.

William C. Kirby, Ph.D., assistant professor of history, and director of the International Affairs Program, has received a research grant from the U.S. National Program for Advanced Study and Research in China, administered by the National Academy of Sciences. He will spend the spring semester at the Economics Research Institute of the Shanghai Academy of Social Sciences pursuing work on Sino-foreign enterprise in the Republican and early People's Republic periods.

Fran Porter, Ph.D., research associate in the Department of Pediatrics, has been awarded a two-year \$150,000 grant from the National Institutes of Health to study the impact of required but presumably painful medical procedures on newborn infants in intensive care and to evaluate the efficacy of using local anesthesia (which is routinely used in the older child and adult for these same procedures) to minimize pain and physiological fluctuations associated with the procedures.

Bernard D. Reams Jr., J.D., Ph.D., professor of law and director of the law library, has written a two-volume book titled *The Semiconductor Chip and the Law: A Legislative History of the Semiconductor Chip Protection Act of 1984*, published by William S. Hein & Co. Inc. of Buffalo, N.Y.

C. M. Sashi, Ph.D., assistant professor of marketing, had his doctoral dissertation selected for honorable mention in the annual competition conducted by the American Marketing Association. The dissertation, one of five honored this year, is titled "Product Differentiation and Market Performance in Producer Goods Industries."

Murray L. Wax, Ph.D., professor of sociology, has an article, titled "Reflections on Fieldwork Reciprocity and Ethical Theories," published in the *Anthropology and Humanism Quarterly*. He was among scholars whose "peer commentary" on Adolf Grunbaum's *The Foundations of Psychoanalysis* appeared in *Behavioral and Brain Sciences*, Vol. 9, No. 2 (June 1986), together with a precis of the book and response by the author. A volume, titled *The Ethics of Cross-cultural Research: A Study of American Indian Communities*, by Wax and others will be published by Westview Press. It contains a series of essays based upon and interpreting a survey of tribal leaders, tribal members, outside researchers, and others involved in recent research efforts among Indian communities.

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The *Washington University Record* will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070. Please include a phone number.

University alum named director of International Office

Catherine C. Steiner has been named director of the International Office at



Catherine C. Steiner

Washington University. Steiner previously was the international student adviser at the University. In her new position, she will coordinate office activities, which include international admissions, English as a Second Language and community programs.

Steiner was assistant director of the International Office at the University of Southwestern Louisiana in Lafayette, La. She worked at Washington University from 1980-81 as an overseas admissions coordinator.

A Chilton, Wis., native, Steiner has a bachelor's degree in sociology from Lawrence University in Appleton, Wis., and a master's degree in social work from Washington University.

Music dept. has new chair

Jeffrey G. Kurtzman, Ph.D., former professor of music at The Shepherd School of Music at Rice University in Houston, Texas, has been appointed chairman of the music department.

Kurtzman has held teaching and administrative positions at Rice



Jeffrey G. Kurtzman

University, Cornell University and Middlebury College in Vermont. He has a master's and doctorate in musicology from the University of Illinois and has studied piano with Rosina Lhevinne at the Aspen Music

School. He has received many academic awards, including a Guggenheim Fellowship in 1979-80 and several awards for excellence in teaching.

Kurtzman has traveled and researched music in several countries,

including Italy, France, England, Germany, Poland and Spain. He currently is preparing catalogs and modern scores of 16th- and 17th-century Italian sacred music for various publishers.

Fraternity wins excellence award

The Missouri Gamma chapter of Phi Delta Theta Fraternity at Washington University was recently honored by the General Fraternity when it was named winner of the Fraternity's Silver Star designation.

The Silver Star is an honorable mention excellence award for chapters with a strong record in scholarship, chapter management, alumni relations, fraternity life and reporting to general headquarters.

This award was presented at the General Fraternity Convention in Toronto, Canada.

NEWSMAKERS

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

An artist's eyesight is restored with laser treatment by Stephen Waltman, M.D., professor of ophthalmology. A four-page feature by Linda Sage in the August issue of *St. Louis Magazine* recounts how, in an hour and a half in an outpatient surgical suite, Waltman punctured a cloudy membrane behind the artist's eye, fully restoring her sight.

Squid nerve fibers reveal how cell organelles travel, according to Michael P. Sheetz, M.D., professor of cell biology and physiology, in the Aug. 12 edition of *The New York Times*. Sheetz is a member of the Woods Hole, Mass., team of researchers who have discovered the protein that acts as a main engine for internal transportation in the nerve cells of those, and perhaps all, higher animals. This research could eventually aid understanding of Alzheimer's and Lou Gehrig's diseases.

Severe diabetes is being aided by new techniques, says a *New York Times* Aug. 26 story. The new techniques also may offer hope in research for organ transplant recipients. "I have never been more optimistic in my life," says David Scharp, M.D., associate professor of surgery. He and principal investigator Paul Lacy, M.D., Robert L. Kroc Professor of Pathology, have conducted animal and human experiments with islet cell transplants. "We should know within five years if this will be practical . . . in humans," Scharp said.

Airline deregulation is the subject of an Aug. 28 *New York Times* article, in which Murray Weidenbaum, Ph.D., director of the University's Center for the Study of American Business, acknowledges that deregulation has been "a mixed bag." He adds that figures show no observable lessening in safety since the

Airline Deregulation Act was passed. While the toll has been heavy on high-cost airlines and their employees, he added, "On balance, the traveling public is in the winner category."

Saints and Strangers, a book by Angela Carter (Viking Press), was reviewed by Charles Newman, Ph.D., professor of English, in the Book Review section of the Sept. 7 *New York Times*.

Escaping the welfare system is not easy for single mothers, says Mark R. Rank, Ph.D., assistant professor of sociology, in a Sept. 8 *Milwaukee Sentinel* article. Rank conducted a study ("Family Structure and the Process of Exiting from Welfare," published in the August edition of the *Journal of Marriage and Family*) of more than 2,700 Wisconsin welfare cases. During the study's three-year run, 74 percent of the married couples and 79 percent of the single heads of households with no children "escaped" from the welfare system; only 53 percent of the single females managed to do so.

Younger drug users are at extra risk, states a Sept. 19 *United Press International* wire story that appeared in newspapers from coast to coast. Lee N. Robins, Ph.D., professor of sociology in psychiatry, directed a study of drug use. She discovered that when persons began using drugs before age 15, the risk of later developing serious drug disorders more than doubled.

Does the use of ginseng have merit as a cure-all? Walter H. Lewis, Ph.D., professor of biology, says, "Half the world thinks it's the greatest thing that ever existed. The other half thinks it's a joke . . . There is no evidence that sexual drive and performance are enhanced by ingesting this root." The Associated Press story about the harvesting of a \$50 million crop of the wild root in the United States appeared in the *Miami Herald* on Sept. 24.

CALENDAR

Oct. 23-Nov. 1

LECTURES

Thursday, Oct. 23

1:10 p.m. George Warren Brown School of Social Work Lecture, "Disaster Volunteer Project," David F. Gillespie, WU assoc. prof. of social work. Brown Hall Lounge.

4 p.m. Dept. of Philosophy Annual Herbert Spiegelberg Lecture, "The Phenomenological Discovery of Speech Acts," Karl Schuhmann, prof. of philosophy, U. of Utrecht. Women's Bldg. Lounge.

4 p.m. Central Institute for the Deaf (CID) Seminar, "Transplantation of Auditory and Visual Sensory Structures," Martin Silverman and Stephen Hughes, asst. research scientists, CID. Second floor aud., CID Research/Clinics Bldg., 909 S. Taylor Ave.

4 p.m. Dept. of Earth and Planetary Sciences Seminar, "Evolution of the North American Craton," Larry Sloss, dept. of earth sciences, Northwestern U. 102 Wilson.

4 p.m. Inaugural Lecture of the Institute of Macromolecular Chemistry, "Dielectric Relaxation and Polymer Dynamics," Walter H. Stockmayer, prof. of chemistry emeritus, Dartmouth College. 311 McMillen Lab.

4 p.m. Public Affairs Thursday Series, "What to Expect From the Rehnquist Court," Lawrence Baum, dept. of political science, Ohio State U. 200 C & D Eliot.

7 p.m. Dept. of Romance Languages and Literatures Lecture, "Nouveau Roman et autobiographie," Alain Robbe-Grillet, WU Distinguished Professor of Romance Languages and Literatures. Women's Bldg. Lounge.

8 p.m. Dept. of Germanic Languages and Literatures Lecture, "Erfahrene Welt. Berichte deutscher Weltreisender am Übergang vom 18. ins 19. Jahrhundert," Gerhard Schulz, prof. of German, U. of Melbourne. Hurst Lounge, Duncker Hall.

Friday, Oct. 24

10 a.m. Dept. of Engineering and Policy Seminar, "Innovative Applications of Computers and Telecommunications in Retail Brokerage," Maxine L. Rockoff, co-founder and principal of Clark, Rockoff and Associates. Also sponsored by the Dept. of Computer Science and the School of Technology and Information Management. 100 Cupples II.

7 p.m. Latin America Forum Series, "Chile," Chilean refugees will speak. A video "The Chile Connection" will be shown. Lambert Lounge, Mallinckrodt Center.

Monday, Oct. 27

3 p.m. Dept. of Chemical Engineering Seminar, "Kinetics and Bioenergetics of Photosynthetic Microbial Growth," Lawrence E. Erickson, prof. of chemical engineering, Kansas State U. 100 Cupples II.

3:30 p.m. Dept. of Mathematics Analysis Seminar, "Transverse Derivatives Control Sobolev Norms of Harmonic Functions," Harold Boas, prof. of mathematics, Texas A & M. 199 Cupples I.

4 p.m. Dept. of Biology Seminar, "Neuronal Development and Pathway Formation in the Visual System of Drosophila," Herman Steller, dept. of biochemistry, University of California at Berkeley. 322 Rebstock.

4 p.m. Dept. of Chemistry Seminar, "Condensed Phase Isotope Effects: How Do They Depend on Temperature?" Jacob Bigeleisen, prof. of chemistry, State University of New York at Stony Brook. 311 McMillen.

4 p.m. Depts. of Classics and Comparative Literature Lecture, "The Greek Love Romances: An Introduction," Reinhold Merkelbach, director of the Institute for the Study of Antiquity, University of Cologne. Hurst Lounge, Duncker Hall 201.

4 p.m. Dept. of Psychology Colloquium, "Behavioral, Metabolic and Familial Influences on Child Weight Control," Leonard Epstein, depts. of psychiatry, psychology and epidemiology, Western Psychiatric Institute and Clinic, Pittsburgh, Pa. 102 Eads.

4 p.m. Dept. of Philosophy and Program in History and Technology Lecture, "Current Trends in the History, Philosophy and Sociology of Science," Trevor Pinch, dept. of sociology, U. of York, England. A.W. Levi Seminar Room, 218 Busch.

8 p.m. Dept. of Germanic Languages and Literatures Lecture, "Bildung und Kultur burgerlicher Frauen im 19. Jahrhundert," Gunter Hantzschel, prof. of German, U. of Munich. Hurst Lounge, Duncker Hall.

8 p.m. School of Architecture Lecture Series with Patrick Horsburgh, professor emeritus, U. of Notre Dame. Steinberg Aud.

Tuesday, Oct. 28

4 p.m. Dept. of Physics Colloquium, "Dust, Magnetic Fields and Star Formation," R. D. Wolstencroft, head of research, Royal Observatory, Edinburgh, Scotland. 204 Crow.

4 p.m. Women's Studies Program Lecture, "Coping Strategies of Women From Disadvantaged Communities," Helen Graber, WU asst. dean for field education in the George Warren Brown School of Social Work. Hurst Lounge, Duncker Hall.

4 p.m. Dept. of Romance Languages and Literatures Lecture, "Image and Texte," Alain Robbe-Grillet, WU Distinguished Professor of Romance Languages and Literatures. Women's Bldg. Lounge.

7 p.m. Women's Law Caucus Seminar, "Stress Management," Rita Numeroff, of Numeroff and Associates. 325 Mudd Hall.

Wednesday, Oct. 29

11 a.m. Assembly Series Lecture with Edna O'Brien, Irish short story writer and novelist. Graham Chapel.

4 p.m. Eighth Annual David R. Calhoun Lecture, "Technological Change and Its Role in Securing Economic Growth," John Opel, chairman of the executive committee of IBM. Simon Hall Aud.

Thursday, Oct. 30

Noon. Pharmacology Dept. Lecture, "Molecular Characterization of Cardiac Phospholamban," Larry Jones, dept. of medicine, Krannert Institute of Cardiology, Indianapolis, Ind. WU Pharmacology Library, third fl., South Bldg.

12:10 p.m. Gallery Talk, "Marcel Duchamp," Lawrence Steffel, WU Steinberg Professor of Art History, Upper Gallery, Gallery of Art.

4 p.m. Dept. of Chemistry Seminar, "Mechanism Based Inhibitors of Steroid Biosynthesis," Douglas Covey, WU assoc. prof. of pharmacology. 311 McMillen.

4 p.m. Central Institute for the Deaf (CID) Research Seminar, "Evaluation of Tactile Aids for the Deaf," Jan Weisenberger, asst. research scientist, CID. Second floor aud., CID Research/Clinics Bldg., 909 S. Taylor Ave.

4:30 p.m. Dept. of Mathematics Colloquium, "On the Classification Problem of Embedded Lines in Characteristic P," T-t. Moh, prof. of mathematics, Purdue U. 199 Cupples I.

Friday, Oct. 31

2 p.m. Economic History Seminar, "Ideology and the Growth of Government," Max Hartwell, prof. of economic history, universities of Chicago and Virginia. Sponsored by the Center for the Study of American Business. 300 Eliot.

4 p.m. The 14th Annual Carl V. Moore Memorial Lecture, "Living with Lymphocytes: The Regulation of B Lymphocyte Growth," William E. Paul, chief, laboratory of immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Md. Carl V. Moore Aud., 1st floor, North Bldg., 4580 Scott Ave.

PERFORMANCES

Friday, Oct. 24

8 p.m. Edison Theatre Presents the Dinosaur Dance Company, (Also Sat., Oct. 25, same time, Edison.) Also sponsored by Dance St. Louis. General admission is \$15; \$10 for WU faculty/staff and senior citizens, and \$7 for students. For more info., call the Edison Theatre box office at 889-6543.

Saturday, Nov. 1

8 p.m. Edison Theatre Presents Mabou Mines in "Cold Harbor." General admission is \$15; \$10 for WU faculty/staff and senior citizens, and \$7 for students. For more info., call the Edison Theatre box office at 889-6543.

MUSIC

Friday, Oct. 24

8 p.m. Natasha L. Ivanina, a Russian pianist, will play a benefit concert in Graham Chapel. Admission is \$10 for adults and \$5 for students. WU students will be admitted free of charge. The concert, co-sponsored by the music department, will benefit St. Barbara's Catholic Church in St. Louis. For tickets, call 385-1934.

Sunday, Oct. 26

7:30 p.m. University City Symphony Orchestra Concert. Graham Chapel.

Monday, Oct. 27

8 p.m. Dept. of Music and New Music Circle Concert of 20th Century Music, featuring Mary Henderson, WU artist-in-residence. Edison Theatre. General admission is \$6.50; students, \$5.

EXHIBITIONS

"A Photographic Exhibit of the Works of Viennese Architect Adolf Loos," from the Austrian Institute in New York. Through Oct. 30. Hallway Gallery, 1st fl., Givens Hall. 7 a.m.-11 p.m. daily. For more info., call 889-6200.

"Beckett at 80," an exhibit of books and manuscripts drawn from the Samuel Beckett Collection. Through Dec. 31. Special Collections, Olin Library. 8:30 a.m.-5 p.m. weekdays.

"New York Art Directors 65th Annual Exhibition," Oct. 23-Nov. 2. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

"The School of Paris and Modern Art in Europe," Through Nov. 9. Gallery of Art, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Early Modernist Architecture in St. Louis: William Adair Bernoudy," Oct. 26-Dec. 7. Gallery of Art, lower gallery, 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Recent Photographic Acquisitions," Through Dec. 28. Gallery of Art, print gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

FILMS

Thursday, Oct. 23

12:30 and 3 p.m. "Film," the film for which Samuel Beckett wrote the screenplay, will be shown in Olin Library, Special Collections, level 5. The 3 p.m. viewing will be introduced in French by Alain Robbe-Grillet, WU Distinguished Professor of Romance Languages and Literatures.

7 and 9:30 p.m. WU Filmboard Series, "Juliet of the Spirit." \$2. Brown Hall.

Friday, Oct. 24

7:30 p.m. Film "L'Immortelle," by Alain Robbe-Grillet, WU Distinguished Professor of Romance Languages and Literatures, with 30-minute filmed commentary by Robbe-Grillet, will be shown in the Meyer Language Lab, Ridgley Hall.

7:30 and 9:15 p.m. WU Filmboard Series, "Pretty in Pink." \$2. Brown Hall. (Also Sat., Oct. 25, same times, and Sun., Oct. 26, at 7 p.m., Brown.)

Midnight. WU Filmboard Series, "Pink Flamingos." \$2. Brown Hall. (Also Sat., Oct. 25, same time, and Sun., Oct. 26, at 9:15 p.m., Brown.)

Monday, Oct. 27

7 and 9:30 p.m. WU Filmboard Series, "Cool Hand Luke." \$2. Brown Hall. (Also Tues., Oct. 28, same times, Brown.)

Wednesday, Oct. 29

7 and 9 p.m. WU Filmboard Series, "Duet for Cannibals." \$2. Brown Hall. (Also Thurs., Oct. 30, same times, Brown.)

Friday, Oct. 31

7 p.m. and midnight. WU Filmboard Series, "Wolfen." \$2. Brown Hall. (Also Sat., Nov. 1, same times, and Sun., Nov. 2, at 7 p.m., Brown.)

7:30 p.m. Film "Trans-Europ-Express," by Alain Robbe-Grillet, WU Distinguished Professor of Romance Languages and Literatures, with 30-minute filmed commentary by Robbe-Grillet, will be shown in Meyer Language Lab, Ridgley Hall.

9:30 p.m. WU Filmboard Series, "Cat People." \$2. Brown Hall. (Also Sat., Nov. 1, same time, and Sun., Nov. 2, at 9:30 p.m., Brown.)

SPORTS

Thursday, Oct. 23

6 p.m. Volleyball, WU vs. Webster U. Field House.

8 p.m. Volleyball, WU vs. Missouri Baptist College. Field House.

Friday, Oct. 24

4 p.m. Women's Tennis, WU vs. Principia College. Tao Tennis Center.

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

Saturday, Oct. 25

2 p.m. Women's Tennis, WU vs. Millsaps College. Tao Tennis Center.

7 p.m. Soccer, WU vs. Emory U. Francis Field.

Tuesday, Oct. 28

7 p.m. Volleyball, WU vs. Principia College. Field House.

Wednesday, Oct. 29

6 p.m. Volleyball, WU vs. Culver-Stockton College. Field House.

8 p.m. Volleyball, WU vs. SIU-Edwardsville. Field House.

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

Saturday, Nov. 1

Noon. Men's and Women's Cross Country, WU Open. Forest Park.

MISCELLANY

Thursday, Oct. 23

5:30 p.m. Black Arts and Sciences Festival, "Science Night." Lambert Lounge, Mallinckrodt Center.

Friday, Oct. 24

7:30 p.m. Black Arts and Sciences Festival, "Arts Night." This will include performances by the Black Theatre Workshop of Washington University, the University's Black Repertory Gospel Choir and the University City High School Drama Department. Simon Hall Aud.

Saturday, Oct. 25

6 p.m. 133rd Founders Day Banquet in the grand ballroom of the Clarion Hotel, 200 S. Fourth Street. Speaker is Marshall Loeb, editor of Fortune magazine. Tickets are \$30. For more info., call 889-5122.

Wednesday, Oct. 29

1-2:30 p.m. University College Short Course, "Unearthing Homeric Ithaka." Sarantis Symeonoglou, WU prof. of art and archaeology. Four Wednesdays until Nov. 19. \$60 registration fee. For location and registration info., call 889-6759.

8 p.m. The Society for the Scientific Study of PSI will meet at the Stix International House, 6470 Forsyth Blvd. There will be a presentation on "The Use of Psychics in Criminal Investigations." Admission is free to members, \$3 to non-members and \$1 to students.

Saturday, Nov. 1

10 a.m. 10K Race and Two-Mile Fun Run for Charity at Francis Field. Co-sponsored by Pro Bono Law Association and Phi Delta Phi Legal Fraternity. The two-mile run will start at 11 a.m. Entry fee for 10K run is \$7 before Oct. 27 and \$9 after. Fee for two-mile run is \$4 before Oct. 27 and \$5 after. Entry forms may be obtained at the law school. For more info., call 627-2076.

Calendar Deadline

The deadline to submit items for the Nov. 6-15 calendar of the *Washington University Record* is Oct. 30. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1070.