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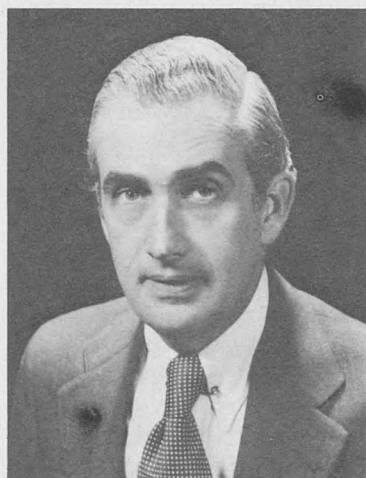


W.U. RECORD

Farrell, Lopata Elected to Board of Trustees

Two prominent St. Louis business executives, one of them an alumnus, have been elected to WU's Board of Trustees, according to Chancellor William H. Danforth. They are: David C. Farrell, president, The May Department Stores Co., and Stanley L. Lopata, chairman of the board of directors of the Carboline Co.

Farrell, 46, was named the chief executive officer of The



David C. Farrell

May Department Stores Co. in 1979. A graduate of Antioch College, where he received a BA in 1956, he began his retailing career with Kaufmann's, the May Co.'s Pittsburgh department store. In 1969, he was named president of Kaufmann's and vice-president of The May Department Stores Co. Farrell became a director in 1974, president and chief operating officer in 1975, and was named to his present position in June 1979.

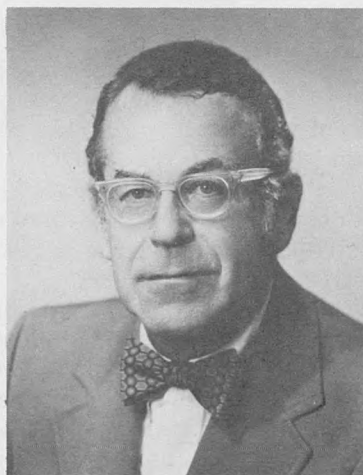
Chairman of the 1980 Fund Drive of the Arts and Educa-

tion Council of Greater St. Louis, he serves as a member of its board of directors. He is also a member of the boards of directors of the St. Louis Symphony Society, the St. Louis Area Council Boy Scouts of America and the National Retail Merchants Association. He serves as a member of the advisory board of directors of The First National Bank in St. Louis, and is a member of the Business Committee for the Arts.

Farrell resides with his wife and three children in Ladue.

Lopata, 65, earned a BA from WU in 1935, and is one of its most devoted and dedicated alumni. He served as chairman of the University's Alumni Board of Governors, and has also been president of the Arts and Sciences Century Club. He is a Fellow of the latter club as well as of WU's School of Engineering Century Club, and is a life member and membership chairman of the William Greenleaf Eliot Society. Two years ago, he received the Alumni Achievement Award from the School of Engineering. In 1979, he received an Alumni Citation for "outstanding professional achievement" at

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Stanley L. Lopata

Davis Assumes New Posts As Vice Chancellor, Associate Provost

Chancellor William H. Danforth has announced the appointment of James W. Davis, WU professor of political science, to the newly created position of vice chancellor and associate provost.

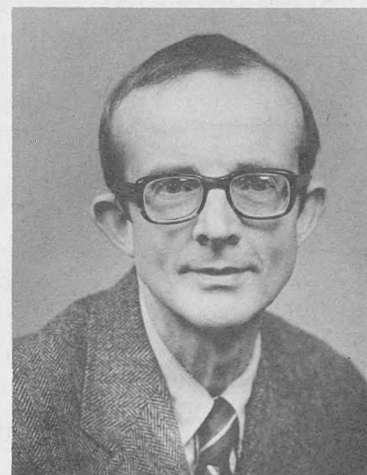
Davis has been serving as associate provost on a part-time basis since February 1978. He also served as associate dean of the Faculty of Arts and Sciences and more recently was acting dean of the College of Arts and Sciences; the latter position he relinquished in July 1979.

As vice chancellor and associate provost he will be responsible for the areas of undergraduate Admissions, Student Affairs, Student Services, Health Services and the International Office. Reporting directly to the University's Executive Vice Chancellor and Provost Merle Kling, Davis also will be responsible for assisting in planning, development and use of resources for the following schools: Architecture, Arts and Sciences, Business, Continuing Education, Engineering, Fine Arts, Law and Social Work.

"The University is fortunate to have a person of Professor Davis's combined academic and administrative skills as well as his tireless dedication to the University," Chancellor Danforth said. "In the last two years he has demonstrated clearly his capability by continuing his teaching activities in the political science department while serving in demanding positions."

Davis earned an AB from Harvard University and a MPA (public administration) and a PhD in political science from the University of Michigan. He joined the WU faculty in 1968 and was named a professor in 1974. A native of Chillicothe, Mo., Davis formerly taught at the University of Wisconsin in Madison.

Danforth also stated that the Search Committee which was responsible for choosing Davis was to be commended for its thoroughness in the selection process. Chaired by Merle Kling, executive vice chancellor and provost, the committee included: John H. Biggs, vice chancellor for administration and finance; Lucius J. Barker, Edna Fischel Gellhorn University Professor of Public Affairs; Lucian Krukowski, professor of art; Robert H. McDowell, professor of mathematics; Hylarie McMahon, associate professor of art; Robert C. Williams, professor of history; and Edward N. Wilson, associate professor of mathematics. John W. Rosenfeld, a junior in the College of Arts and Sciences from Newton, Mass., and Paul Hagen, a first year student in the School of Law from Rockford, Ill., were student members of the committee.



James W. Davis



George I. Zahalak (left), WU associate professor of mechanical engineering, adjusts a fixture designed to study muscle dynamics. The volunteer is Stephen C. Cannon, a graduate student who is assisting Zahalak in the project. (Photo by Peter Zimmerman)

Mechanical Engineering Offers New Approach to Muscle Dynamics

Sometimes a different viewpoint can shed new light on an old subject. George I. Zahalak, WU associate professor of mechanical engineering, is investigating the dynamics of human skeletal muscle with that thought in mind.

One of a handful of engineers in a field traditionally dominated by life scientists, Zahalak is attempting to develop a mathematical model for skeletal or voluntary muscle. The model would relate live muscle motion to muscle force and electrical activity under general dynamic conditions.

The National Institute for Arthritis, Metabolic and Digestive Diseases recently granted him a five-year Research Career Development Award which will pay his salary for the entire period. A \$190,355 complementary grant by the National Science Foundation also has been awarded to Zahalak for equipment and technical assistance.

According to Zahalak, muscle mechanics and control have been studied intensively for some 50 years, but most past efforts concentrated on the isolated elements of the neuromuscular-skeletal system. He hopes to combine these elements by analyzing their mathematical relationships. The resulting model may have clinical applications in treating a variety of neuromuscular disorders. Other possible outcomes might be contributions to improvements in physical and drug therapy, artificial limbs and orthopedic surgery.

"We're trying the simplest things first to get a tractable quantitative model, but we appreciate that in reality, the picture is very complicated indeed," said Zahalak, who is knowledgeable in mathematics, mechanics and control theory.

Zahalak has been interested in the mechanics of muscle since 1972 when he finished his doctorate in applied mechanics and mathematics and became a research associate at Brown University, Providence, R.I. He joined WU four years later, transporting much of his unique biomechanics laboratory equipment here.

In his current experiments, subjects sit in specially designed chairs with their forearms clamped in a "clam-shell" fixture of molded fiberglass and aluminum. When the fixture is moved, surface electrodes attached to the skin measure electrical activity which is recorded and analyzed, along with muscular force and motion, by a laboratory-based computer system.

Zahalak is one of the few engineers to receive the Research Career Development Award, which is given to biomedical scientists who show exceptional promise in research.

—Jill Murray

Key Congressmen On Campus Feb. 22 To Discuss Budget

Four key members of the U. S. House Budget Committee and one member of the U. S. Senate Budget Committee will be on campus Friday, Feb. 22, to participate in a congressional roundtable discussion, "Can Congress Control Government Spending?"

Sponsored by WU's Center for the Study of American Business (CSAB) and the Department of Political Science, the Conference on the Congressional Budget will feature Sen. Pete V. Domenici (R-N.M.); and representatives Richard Gephardt (D-Mo.); Robert Giaimo (D-Conn.), chairman of the House Budget Committee; Ralph Regula (D-Ohio); and Paul Simon (D-Ill.).

Kenneth W. Chilton, acting director of CSAB, noted that the recent release of the President's 1981 budget, which calls for expenditures of \$615.8 billion and forecasts a \$16 billion deficit, makes this

an opportune time to examine the effectiveness of the congressional budget process.

"While the President's budget has been the document that provides guidelines for these expenditures," he said, "it has only been during the last five years that Congress has actually placed restrictions on expenditures by budget categories. Prior to the Budget Control and Impoundment Act of 1974, the congressional appropriations process was similar to each person in a family of four drawing on the same checking account with no one responsible for balancing the account."

Chilton believes the conference will help answer questions about how the budget process works, what its consequences are, and what can be expected of the congressional budget process in the future.

The congressional conference will be held at 3 p.m., Friday, February 22, in the Seeley G. Mudd Law Building Courtroom. The public is invited to attend.

WU Faculty Members in the News

The unique navigational capabilities of bats and the legal status of "stateless persons" are among research topics of WU faculty members which recently have received national news coverage.

Bat research conducted by the departments of Psychology and Biology was the subject of a broadcast of *3-2-1-Contact*, a new program produced by the Children's Television Workshop for the Public Broadcasting System. James A. Simmons, professor of psychology, served as spokesman.

Robert L. Williams, professor of psychology and author of the Basic Intelligence Test for Cultural Heritage, appeared on *Prime Time* (NBC) with Tom Snyder to discuss issues in minority testing.

The research of A. Peter Mutharika, professor of law, on the legal status of illegal aliens and people who have renounced their citizenship, was featured in a United Press International story.

Charles P. Hughes, MD, assistant professor of neurology at the WU School of Medicine, was quoted extensively about diagnosis of senile dementia in a syndicated story prepared by King Features.

Memory P. Elvin-Lewis, associate professor of microbiology in dentistry at the WU School of Dental Medicine, and her research on dental hygiene in Ghana were discussed in an article in *The New York Times*.

In February United Press International will distribute a story on three sisters who are students at the WU School of Dental Medicine. An Associate Press story will review research on the prevention of thrombosis among hemodialysis patients by Philip W. Majerus, MD, professor of medicine and biochemistry and director of the Division of Hematology at the WU School of Medicine.

Trustees—

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WU's Founders Day ceremonies. Lopata is a member of the Leadership Gifts Committee of the Engineering Facilities Improvement Plan at WU.

Lopata, founder of the Carboline Co., has made significant contributions in business, industry and chemical engineering.

A well-known civic leader, he is a member of numerous societies and professional organizations, including the American Institute of Chemical Engineers and the American Chemical Society. Lopata serves on the boards of directors of the National Association of Corrosion Engineers, Mark Twain State Bank, Union Illinois Co. of East St. Louis, Ill., and the Binkley Co. of Warrenton, Mo.

Lopata resides with his wife in Ladue. Their four children are married and reside in various parts of the country.

Late WU Coach Honored

The late Irvin C. Utz, former WU baseball coach, received the Meritorious Service Award from the American Association of College Baseball Coaches at a recent national meeting in New Orleans.

He coached WU teams from 1953 through 1963. His teams never had a losing season and compiled a 162-66 record. He died in 1964.

The most outstanding player he coached was Dal Maxvill who played short-stop with the St. Louis Cardinals for a number of years.

Utz also coached John Claiborne who served as assistant coach under Utz and later took over the coaching duties after Utz died.

Claiborne is general manager of the St. Louis Cardinals.

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Missouri Poet Opens Poetry Reading Series

Larry P. Levis, assistant professor of English at the University of Missouri, Columbia, will be the first of a group of poets to give readings at WU. He will speak at 8 p.m. on Thursday, Feb. 21, in Hurst Lounge, Duncker Hall. His talk is sponsored by the WU Department of English.

Levis is co-editor with his wife, Marcia Southwick, of a periodical, *The Missouri Review*. It publishes poetry, fiction and essays of a general literary interest with a distinctly contemporary orientation. Levis's first book, *Wrecking Crew*, won the International Poetry Forum U.S. award in 1971; his second volume, *The Afterlife*, was the 1976 Lamont poetry selection.

Weil Publishes Treatise

Phoebe Weil, WU conservator, recently published an edition of a seventeenth-century treatise on sculpture techniques entitled, *Osservazioni della Scoltura Antica* by the Roman sculptor Orfeo Boselli. The book contains a general index of collections and collectors, an introduction, notes, indices and an essay, "Bozzetto-Modello: form and function." It is published by SPES (Società per Edizioni Scelte), Florence, and can be obtained through Speedimpex, a U.S. supplier of foreign works.



Over 200 original cel paintings, like the one above of the animated characters Mowgli and Baloo from Walt Disney's "Jungle Book," will be on sale, 10 a.m.-7 p.m., Feb. 19 and 20, on the lower level of Mallinckrodt Center. The sale is sponsored by Filmboard.



There's a clown in every crowd, particularly at Carnival time, which will be celebrated for the seventh straight year by the Department of German and the Cosmo Club at 9 p.m., Friday, Feb. 15, in Flack Lounge. See *Calendar* for details.

"Brief Encounters" of Five Kinds Offered by General Studies

The WU Committee for General Studies will offer a new program, "Brief Encounters," five free seminars on widely diverse topics, beginning Tuesday, Feb. 19.

Four of the seminars will meet for six weeks and carry one unit of credit.

They are: "Alice in Wonderland," taught by Leon A. Gottfried, WU professor of English, (six Wednesdays from 3 to 5 p.m., beginning Feb. 20); "The Phenomenon of Airline Disasters," taught by Alan N. Burstein, assistant professor of sociology, (six Wednesdays, from 7 to 9 p.m., beginning Feb. 20); "Black Americans in the 1970s," taught by Ronald J. Jackson, assistant dean of the College of Arts and Sciences, (six Tuesdays from 3 to 5 p.m., beginning Feb. 19); and "Customer-ship," taught by Charles L. Leven, chairman of the WU Department of Economics, and Frederick R. Warren-Boulton, associate professor of economics, (six Wednesdays, from 7 to 9 p.m., beginning March 19).

The fifth seminar, open to the public, is on the history of stringed instrument making. Gene Bearden, owner of Bearden Violin Shop, 8787 Lackland Rd., in St. Louis, will bring samples of old instruments to the sessions, which will be held on three Tuesdays, Feb. 19, 26 and March 4, from 3 to 4 p.m. in Brown Hall Lounge. No registration is required for this seminar.

Students must sign up for the four one-credit courses by Friday, Feb. 15, in 201 South Brookings. Enrollment will be limited to 15 students. For more information, call Marlene Barrett, assistant dean, College of Arts and Sciences, at Ext. 6806.

Women Meet to Discuss College Administration

The Women's Program Council of the Higher Education Center of St. Louis will sponsor a panel discussion and social meeting featuring four St. Louis area university administrators at 4 p.m., Tuesday, Feb. 19, in the United States Room in Busch Center, St. Louis U., 20 N. Grand Blvd. The panel, which will discuss "Networking Women in Higher Education," will include Linda Salamon, dean of the College of Arts and Sciences,

WU; Sr. Jeanne O'Laughlin, assistant to the president, St. Louis U.; Nancy Avakian, assistant vice chancellor for academic affairs, UMSL; and Julia Muller, dean of student affairs, UMSL. Wine and cheese will be served following the discussion. All WU women faculty and staff, particularly those wishing to advance in higher educational administration, are invited to come. For reservations, call the Center at 534-2700 or Karen Coburn at Ext. 5930.

Calendar

February 15-21

FRIDAY, FEB. 15

6 p.m. Society of Women Engineers Professional Development Retreat.

Speakers will include Ruth Williams Rockey and Bobbie Ruzick, Ford Motor Co.; and Carolyn Finch, Hewlett Packard. Thompson House, 12145 Ladue Road. Also Sat., Feb. 16 and Sun., Feb. 17. Registration forms are available in 201 Bryan.

8 p.m. Susan B. Anthony Birthday Party. "An Evening of History, Drama and Entertainment." Gargoyle Coffeehouse. Sponsored by the Women's Programming Board.

9 p.m. South-40 Programming Board Student-Faculty Talent Show, "Is That Entertainment?" Harry Kisker, dean of student affairs, master of ceremonies. Wohl Center, lines C and D.

9 p.m. Cosmo Club and Department of German Carnival. Guests may wear costumes or come as they are. Refreshments will be served. Flack Lounge, (2nd floor), Ridgley Hall.

SATURDAY, FEB. 16

9 p.m. Student Union Hearts and Flowers Ball. Holmes Lounge.

SUNDAY, FEB. 17

6 p.m. Gargoyle Dinner Theatre, "Mark Twain's Dairy of Adam and Eve." Gargoyle Coffeehouse. Tickets are \$5 in advance only at the Edison Theatre Box Office.

7:30 p.m. Hillel Foundation Science and Judaism Colloquium, "Experimentation and Jewish Law," Elliott Cowan, doctoral candidate in immunology, WU School of Medicine. Hillel House, 6300 Forsyth.

MONDAY, FEB. 18

12:45 p.m. Panhel and IFC Skating Party. Steinberg Rink, Forest Park. Buses will leave Wohl Center at 12:45 p.m. There will be party from 3-6 p.m. at the Beta House, #1 Fraternity Row.

4 p.m. Department of Biology Seminar, "Old Wine in New Bottles," from Raymond Pearl's *Eugenics to Population Control*, Garland E. Allen, WU assoc. prof. of biology. 322 Rebstock. Refreshments will be served following the seminar in 309 Rebstock.

TUESDAY, FEB. 19

4 p.m. Department of Chemistry Special Seminar, "Organometallic Olefin Analogues and their Synthetic Applications," Jeffrey S. Plotkin, postdoctoral research fellow, Ohio State U. 311 McMillen Lab. Coffee will be served at 3:30 p.m. in 561 Louderman.

7:45 p.m. Asian Art Society Mini-Course, "The Beginnings of Japanese Modern Painting, 1880-1940," J. Thomas Rimer, WU prof. of Japanese language and literature. Also Thurs., Feb. 21. 200 Steinberg. Asian Art Society members only.

WEDNESDAY, FEB. 20

11 a.m. Assembly Series and Department of Art and Archeology Lecture, "Medieval Jerusalem: A City at the Crossroads of Culture," Oleg Grabar, chairman, Dept. of Fine Arts, Harvard U., and author of *The Alhambra*. Steinberg Auditorium.

2 p.m. Assembly Series and Department of Art and Archeology Discussion with Oleg Grabar, chairman, Dept. of Fine Arts, Harvard U., and author of *The Alhambra*. 202 Steinberg.

4 p.m. Department of Physics Colloquium, "The Confrontation Between General Relativity and Experiment," Clifford M. Will, prof. of physics, Stanford U. 201 Crow.

8 p.m. School of Fine Arts Visiting Artist Lecture, Brent Kingston, prof. of art, SIU Carbondale, will give an illustrated talk about his work as a sculptor and craftsman. Steinberg Auditorium.

THURSDAY, FEB. 21

4 p.m. Center for the Study of Public Affairs Lecture, "Public Interest Representation in Regulation," Alberta Slavin, chairwoman, Missouri Public Service Commission. Lambert Lounge, Mallinckrodt Center.

4 p.m. Department of Anthropology Colloquium, "The Origin of Man: A Demographic Perspective," C. Owen Lovejoy, prof. of anthropology, Kent State U. Ann Whitney Olin Women's Bldg. Lounge.

4 p.m. Department of Chemistry Special Seminar, "Theory of Alignment and Orientation in High Energy Atomic Collisions," John Dahler, prof. of chemistry, U. of Minn. 311 McMillen Lab. Coffee will be served at 3:30 p.m. in 561 Louderman.

4 p.m. Department of Earth and Planetary Sciences Seminar, "Current Activities in Missouri Division of Geology and Land Survey," Wallace B. Howe, director and state geologist, Missouri Dept. of Natural Resources. 102 Wilson.

7:30 p.m. Black Studies Program Lecture, "Black Involvement in International Affairs," Richard Hatcher, mayor, Gary, Ind. Graham Chapel.



Richard Hatcher

8 p.m. Poetry and Fiction Reading Series. Poet Larry Levis, asst. prof., U. of Mo.-Columbia, and coeditor of *The Missouri Review*, will read from his works of poetry. Hurst Lounge, Duncker Hall.

Exhibitions

School of Fine Arts High School Exhibition, featuring the work of 26 St. Louis high school art students. Bixby Gallery, Bixby Hall. 10 a.m.-12 noon; 1-4 p.m., weekdays. Through Feb. 15.

"The Knowledge of Natural Things," an exhibit of books and manuscripts from the WU Rare Books and Special Collections department illustrating the influence of the "new science" of the 17th century on literature and culture. Rare Books and Special Collections, fifth floor, Olin Library. 8:30 a.m.-5 p.m., weekdays. Through April 11.

"Monuments in 18th- and 19th-Century Otolaryngology," an exhibit of rare editions of monumental works in otology, the study of the ear. The exhibit includes volumes by Valsalva, Scarpa, Toynbee, Politzer and other important figures in the history of otology. Medical Library Annex, 615 S. Taylor. 8:30 a.m.-5 p.m., weekdays. Through March 30.

Music

TUESDAY, FEB. 19

8 p.m. Gateway Festival Orchestra Concert, William Schatzkamer, WU prof. of music, director. Nana Mukhadze, WU graduate student, piano soloist. The program will include works by Chopin and Mendelssohn. Graham Chapel. (This concert has been made possible by a grant from the Music Performance Trust Fund through Local 2-197 of the American Federation of Musicians.)

9 p.m. Student Union Concert, Coca Taylor and her Blues Machine. Gargoyle Coffeehouse. Admission \$3; \$2 for WU students at the door.

Films

FRIDAY, FEB. 15

7:30 and 9:45 p.m. WU Filmboard Series, "Lord of the Rings." Brown. \$1.75. (Also Sat., Feb. 16, same times, Brown; and Sun., Feb. 17, 8 p.m., Wohl Center.)

12 midnight. WU Filmboard Series. "THX 1138." Brown. \$1. (Also Sat., Feb. 16, midnight, Brown.)

MONDAY, FEB. 18

7:30 p.m. Historical Cinema Series, "War and Peace." Brown. \$1.25. (Also Tues., Feb. 19, 7:30 p.m., Brown.)

WEDNESDAY, FEB. 20

7:30 and 9:30 p.m. WU Filmboard Series, "The Garden of the Finzi-Continis." Brown. \$1.75. (Also Thurs., Feb. 21, same times, Brown.)

THURSDAY, FEB. 21

7:30 p.m. "Hollywood Goes to College" Film Series, "Bedtime for Bonzo." David Konig, WU assoc. prof. of history, will lead a discussion following the film. Wohl Center, line D. Sponsored by the Faculty-Student Interaction Committee of the Residential Life Center.

Chess Club Meets

The WU Chess Club has resumed weekly meetings at 7 p.m. on Wednesdays in the Wohl Center East Private Dining Room. In addition to playing intramural matches, the club competes inter-scholastically and in national matches. Membership is open to all faculty, staff, students and alumni. For further information, call Philip D. Malinas at 863-2857.