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RECORD

Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

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Painter James McGarrell at work in his studio. His oil painting titled "Alba" is in the background.

Faculty art show features James McGarrell's paintings

Painter James McGarrell, professor of art, is the featured artist in Washington University's annual "Faculty Show" Dec. 6 to Feb. 7 at the Gallery of Art, Steinberg Hall. He will exhibit several oil pastels on monotype (single-print editions), produced this year.

The exhibit includes works by faculty members in the School of Fine Arts, School of Architecture and Department of Art and Archaeology. During the opening reception, from 3 to 5 p.m. Sunday, Dec. 6, Bill Kohn, professor of art, will present a 16-minute audio-visual piece on his pilgrimage this summer to Rocio, Spain.

Critics have called McGarrell's work "fiction painting" because he depicts an array of subjects invented from memory and imagination. During decades dominated by minimal art, his work has been described as maximal for its complexity and breadth of reference.

McGarrell, who joined the faculty in 1981, has had one-person exhibits this fall at the Jame Haslem Gallery in Washington, D.C., and the Peregrine Gallery in Dallas, Texas. A new show will open in January at the Struve Gallery in Chicago and in spring 1988 at the Allan Frumkin Gallery in New York City.

His paintings have been included in important surveys of American art including those at the Whitney Museum of American Art and the Museum of Modern Art in New York. His work also was selected for the Dunn International exhibit at the Tate Gallery in London and the Venice Biennale -- both in the 1960s -- and the Carnegie International Exhibition in Pittsburgh in 1983.

Kohn's piece, "Pilgrimage to the Virgin of Rocio," with specially commissioned electronic music by Rich O'Donnell, instructor in music, will be performed at 3:15 and 4:15 p.m. Dec. 6 only. Kohn's slides document his three-day walk beside oxen-pulled carts and silver-covered carriages from Seville to Rocio in southern Spain with one of the 75 religious brotherhoods that made the journey from Spanish towns.

They traveled through desert terrain, swamplands and forests to join the gathering of two million people who came to see the statue of the Virgin of Rocio brought out of her church on the day of Pentecost. In the accompanying music, O'Donnell has built his electronic work around music that was actually sung on the road.

Gallery hours are 10 a.m. to 5 p.m. weekdays and 1 to 5 p.m. weekends. For more information, call 889-4643.

\$1.8 million grant funds new genetics center

A \$1.8 million grant from the James S. McDonnell Foundation is enabling scientists at Washington University to establish a new genetics center that will take part in one of the most challenging projects in the biomedical sciences: complete analysis of the human genome.

Creation of the Center for Genetics in Medicine was announced by Chancellor William H. Danforth. The center will be located at the School of Medicine and will involve collaboration of most of its departments, as well as the University's computer science department.

"Washington University is in a position to contribute significantly to human genome studies," says David Schlessinger, Ph.D., professor of microbiology and immunology and director of the new center. "The McDonnell Foundation's support allows us to build on recent developments here in Maynard Olson's laboratory which suggest a systematic approach to mapping the human genome. We can now test that approach."

Olson, a Ph.D. who is professor of

genetics and associate director of the new center, has developed techniques to clone and then purify much larger unique fragments of human DNA than was previously possible. The potential of the work has already been widely discussed in the scientific literature.

McDonnell Foundation President John T. Bruer, Ph.D., comments, "We believe the center builds upon the recognized strengths of Washington University's faculty. It will become a focus for research on human genetics at Washington University and serve as an important international resource in the effort to map the human genome."

The human genome project is so massive that most scientists doubt that it would be possible to undertake successfully with existing technology and limited resources, Schlessinger points out. However, he says, new technology -- particularly Olson's technique for cloning large fragments of human DNA in yeast cells -- may make the project more feasible.

"This technology provides a possible route to bridge what has been a

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'Nearly limitless potential'

Market behavior under study as business school opens lab

Heralding a more scientific bent to business research, a laboratory that has just opened in Simon Hall offers the business school's increasingly cross-disciplinary faculty the opportunity for experimental study of many kinds of marketplace activity.

In coming months, the Reuben C. Taylor Jr. Experimental Laboratory in Business and Economics will become familiar turf for faculty interested in testing otherwise untestable theories on subjects ranging from the effect of daily price move limits on the Chicago Board of Trade to the impact of time pressure on individuals' purchasing decisions. And students will use the laboratory to study managerial economics, decision-making, managerial accounting and other subjects.

"The common denominator among all such experiments is observation of fundamental business behavior under controlled laboratory conditions untainted by real world variables that make definite conclusions virtually impossible," says Don Coursey, Ph.D., associate professor of business economics who, with his colleagues, designed the new facility. "Outside the laboratory, the world is often too complicated to test theories that try to explain economic behavior in simple terms."

Testing the economic theories that have traditionally guided government policy and corporate decisions has become more practical with the advent of experimental economics, an applied discipline that began evolving about 20 years ago. University of Arizona economist Vernon L. Smith pioneered the field when he devised an experiment to test the validity of Adam Smith's long-established theory on free markets, which for 200 years has been the

cornerstone of laissez-faire capitalism.

Economics experiments are beginning to influence business decisions and have produced noteworthy departures from some long-accepted economic notions. Arizona's Smith, for example, recently has shown that run-ups and crashes in stock prices are caused by short-term gain speculation.

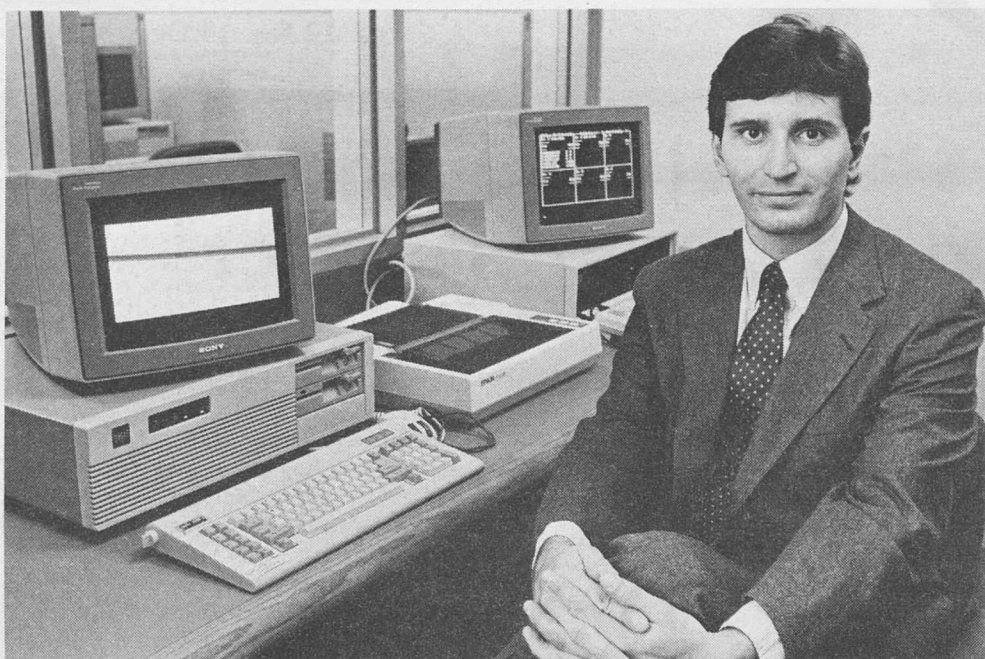
More than 100 economists at some 25 universities are performing other experiments. While experimental studies are revolutionizing the way economists study behavior, this revolution has yet to spread to business schools and general business research.

Robert L. Virgil, D.B.A., dean of the School of Business, believes that the school can create a unique niche for itself by becoming the first to apply experimental techniques to traditional fields and topics of business research like accounting, marketing, finance and organizational behavior. He says business school faculty will use the laboratory to study dynamics of markets, behavior in decision-making situations and managerial implications of those dynamics.

"The nearly limitless potential for applying these experimental methods to study business problems and managerial issues will bring us recognition for having taken the lead among business schools," Virgil said when the Taylor laboratory was dedicated Nov. 13.

The business school has attracted a nucleus of faculty who share an interest in the application of experimental studies. Virgil describes them as "a critical mass of young scholars doing pioneering work in this new

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"Markets ... are people exchanging information to reach agreement on price. We can simulate any of that right here in this room," says Don Coursey, referring to the Reuben C. Taylor Jr. Experimental Laboratory in Business and Economics.

Business lab — *continued from p. 1*

field." In addition to microeconomist Don Coursey, they are: Joyce Berg and Ronald King, Ph.D., both assistant professors of accounting, Gary Miller, Ph.D., professor of political economy, Walter Nord, Ph.D., professor of organizational behavior, and Haim Mano, Ph.D., visiting assistant professor of behavioral science and marketing.

Coursey, a protege of Arizona's Smith, is using experimental methods to compare the market performance effects of daily price move limits at the Chicago Board of Trade to total suspension of trade as practiced by the New York Stock Exchange.

Another part of Coursey's current research draws on evidence from other experiments to challenge theories on the psychological phenomenon known as the endowment effect -- that individuals seem to require far more compensation to give up a commodity than they are willing to pay to acquire it. For example, he is studying what individuals do in low-probability, high-risk situations for the Environmental Protection Agency. Case in point: the EPA is interested in whether people living in an earthquake zone will buy protection insurance and what they are willing to pay for it.

Berg will use the lab toward the goal of the best contract to provide correct incentives for both management and employees to perform the most efficient economic activity. King is looking at the impact of new information on market price. And Miller

will use the new laboratory to test basic forms of organizing the firm.

These and other faculty members will integrate the laboratory into their classes, both graduate and undergraduate. "The laboratory promises to be an excellent way to teach," Virgil says. "The students become actively involved. They simulate a market experience, collect data from it, and then discuss the results as a class. In time, the laboratory will join the case method and the lecture as an important pedagogy of teaching business."

The laboratory was made possible by a grant from Reuben C. Taylor Jr., B.S.B.A. '36, an investor in McDonald franchises, real estate and other interests in Connecticut.

The facility includes 16 IBM microcomputer terminals linked to simulate a market. Participants use the terminals, rather than voice or telephone, to exchange information. PLATO, a computer system developed for such experiments at the University of Illinois, links the laboratory by phone lines with other similar installations and makes it possible to share software.

"Markets -- whether you're talking about the New York Stock Exchange, a grocery store where all prices are posted, a Treasury Bill auction or an antique auction in rural Illinois -- all are people exchanging information to reach agreement on price," says Coursey. "We can simulate any of that right here in this room."

Carol Farnsworth

Study abroad fellowship for architects

Applications for Washington University's Steedman Fellowship 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, 1987. En-

tries will be judged during "Steedman Week," to be held Feb. 8-10, 1988.

The three-member Steedman Governing Committee for 1987-88 includes:

Louis R. Saur, president of Louis R. Saur & Associates Inc., representing the St. Louis Chapter of the American Institute of Architects;

Dean Michaelides, representing the School of Architecture; 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, Box 1079, One Brookings Drive, St. Louis, Mo. 63130-4899.

Health care for chronically ill focus of new graduate program

In January, Washington University will offer a new graduate program that will prepare health care professionals to develop innovative resources to aid patients with extended illnesses, such as diabetes and cardiac disease.

Students enrolled in the Master of Health Science Program in Health Care Services (M.H.S.) will be taught theoretical and practical approaches for coordinating the physical, psychological and social aspects of health care related to lifelong illness.

The 30-credit hour program includes five required courses that will present a broad perspective based on state-of-the-art research. The remaining elective courses in the interdisciplinary curriculum will be selected from the schools of medicine, business and social work and the departments of psychology and education. M.H.S. courses will be offered during flexible hours on both the Hilltop and Medical School campuses to health care profes-

sionals with a bachelor's degree in related health care fields.

The program is sponsored by Washington University's School of Medicine, Department of Psychology and University College, the evening division of the Faculty of Arts and Sciences. Directors of the program are Edwin B. Fisher, Ph.D., associate professor of psychology, and J.V. Santiago, M.D., professor of pediatrics and director of the Diabetes Research and Training Center at the School of Medicine.

Washington established the program in response to "an increasing demand for health professionals who can develop unique services for those with lifelong illness -- from the more traditional health care program to those with the preventive health focus of the future," says Debra Haire-Joshu, M.H.S. coordinator.

For more information, call 361-8295 or 361-8041.

Introductions to new faculty

The Washington University Record is featuring a series of profiles of new faculty this semester on the Hilltop, Medical School and Dental School campuses. The faculty introductions will appear weekly in alphabetical order.

Bjorn E.J. Dahlberg, Ph.D., professor of mathematics, comes to Washington from the University of Goteborg, Goteborg, Sweden, where he was professor of mathematics. He received a doctorate in mathematics in 1971 from the University of Goteborg. He was a visiting professor at Washington in 1978 and 1980. He won the Edlund prize in 1979 from the Royal Academy of Science, Stockholm. His research interests are harmonic analysis and practical differential equations.

Scott M. Davis, assistant professor of marketing, comes to the business school from Stanford University, where he is enrolled in a doctoral program in economics. He earned a master's in geography in 1982 and bachelor's in economics, environmental studies and geography in 1978, from the University of California/Santa Barbara. His research interests include models of asymmetric information (specifically the role of price and advertising as quality signals) and competitive strategy.

Mary Ann Dzuback, Ph.D., assistant professor of education, comes to Washington from Columbia University, where she earned her doctorate in 1987. She received a bachelor's degree in education in 1974 from Franconia College. Her dissertation was an intellectual biography of Robert M. Hutchins, a noted American educator.

John B. Gilmour, Ph.D., assistant professor of political science, comes to Washington from the University of California/San Diego, where he was a lecturer in political science. He earned a doctorate in political science in 1985 from the University of California/Berkeley, a master's degree in public administration in 1981 from the University of Virginia and a bachelor's degree in history in 1977 from Oberlin College.

Barry S. Goldenberg, D.M.D., assistant professor of restorative dentistry, had been pre-clinical instructor of fixed and removable prosthodontics at the School of Dentistry,

University of Missouri-Kansas City. He earned a master's degree in prosthodontics in 1987 from the School of Dentistry, University of Missouri-Kansas City, a doctor of dental medicine in 1982 from Washington's School of Dental Medicine, and a bachelor's degree in biology in 1975 from Fairleigh Dickinson University, Teaneck, N.J.

William Hawk, assistant professor of art, has been a part-time lecturer in painting, drawing and figure drawing at Washington. He also was senior artisan, shop foreman, designer and builder of interiors and furnishings for Mark Twain Banks. He received a master's degree in painting in 1977 from Washington and a bachelor's degree in painting in 1975 from the University of Akron. His recent exhibitions include "Currents: 35" at the St. Louis Art Museum and a group exhibition at Elliot Smith Gallery in St. Louis.

Stephen W. Hiatt, D.D.S., assistant professor of oral and maxillofacial surgery, is a clinician in residence, oral and maxillofacial surgery at the School of Dental Medicine and an assistant oral maxillofacial surgeon at Barnes and Children's hospitals and a consultant, oral and maxillofacial surgeon, Veteran's Hospital. Hiatt earned a doctor of dental surgery in 1983 from the University of Missouri-Kansas City School of Dentistry and a bachelor's degree in biology in 1977 from the same university.

Michael J. Holtzman, M.D., assistant professor of medicine, previously was an assistant professor of medicine at the University of California, San Francisco, and an associate staff member at the university's Cardiovascular Research Institute. He received his medical degree from Northwestern University in 1975. His research involves investigating some of the biochemical mechanisms by which airway lining cells might mediate the inflammatory response in normal and abnormal conditions.

Richard S. Hotchkiss, M.D., assistant professor of anesthesiology at the School of Medicine, came to Washington from Harvard Medical School where he had been clinical associate in anesthesia since 1985.

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NOTABLES

Ramesh K. Agarwal, Ph.D., affiliate professor of mechanical engineering, presented an invited seminar on "Computational Fluid Dynamics -- Its Status and Future Promise" on Oct. 13 at the Department of Mathematical Sciences at the University of Missouri at St. Louis. He also gave an invited talk, titled "Euler/Navier-Stokes Simulations of the Flowfields of Fixed and Rotary-Wing Aircraft Configurations," at the Third International Symposium on Science and Engineering on Cray Supercomputers, held in Minneapolis, Minn.

Garland E. Allen, Ph.D., professor of biology, organized and chaired a session titled "Eugenics and Mental Testing, 1910-1940: Conflicting Interpretations" at the Oct. 30 meeting of the History of Science Society in Raleigh, N.C. The session was devoted to examining the relationship between the eugenics movement (those who believed that social problems could be solved by "breeding better people") and the nascent I.Q. testing movement in the early decades of the century.

Mario A. Blanc, Ph.D., assistant professor of romance languages and literatures, presented three papers at conferences last month. He gave a paper on "Ecos de Garcilaso en Becquer" at the Interstate Conference on Foreign Languages and Literatures at the University of Richmond, Richmond, Va. The second paper, "La Funcion de Los Elementos en Prosa en Las Rimass de Becquer," was given before the Rocky Mountain Modern Language Association in Spokane, Wash. The third paper, "Vinculauones Modernistas Entre Dario Y Becquer," was presented at the Mid-America Conference on Hispanic Literature at the University of Nebraska in Lincoln.

Deirdre Boden, Ph.D., assistant professor of sociology, recently participated in a round-table discussion at the annual meetings of the American Association in Chicago. She presented a paper she developed with Michele Lamont of Princeton University on "Signalling Success: Notes on Cultural

Capital and Organizational Stratification."

Gregory Claeys, Ph.D., associate professor of history, recently chaired a session on Modern British Social and Political Thought at the annual meeting of the History of Ideas Colloquium held at North London Polytechnic. He also gave papers on "William Godwin and Revolution" to the Midwest Conference on British Studies meeting, held in October in Chicago, and on "Rethinking Owenite Socialism, 1800-50" to the Southern Conference on British Studies meeting, held last month in New Orleans.

Roy Curtiss III, Ph.D., professor and chairman of biology, presented an invited lecture, titled "Avirulent Salmonella Vaccines," at the Nobel Symposium on "Vaccines of the Future" in Karlskoga, Sweden.

Adele Diamond, Ph.D. assistant professor of psychology, presented a paper, titled "Successful Performance by Monkeys with Lesions of the Hippocampus on Piaget's AB Task," at the 17th annual meeting of the Society for Neuroscience, held Nov. 16-21 in New Orleans. Stuart Zola-Morgan and Larry Squire co-authored the paper with her. Diamond has been asked to give the invited address at the International Conference on Infant Studies April 21-24 in Washington, D.C., and has been invited to present a plenary session at the 18th annual symposium of the Jean Piaget Society June 2-4 in Philadelphia.

Noor V. Gillani, D.Sc., professor of mechanical engineering, recently was appointed by His Highness Prince Aga Khan to a three-year term as a member of The Aga Khan Board of Education for the U.S.A. The board, headquartered in New York City, serves supplementary educational needs of a growing community of Ismaili Muslims in the United States, currently numbering about 20,000. The national board sets policy for and oversees the work of regional boards and local action committees. These U.S. activities are part of a broader scope of international educational activities of the Aga Khan Educational Services (AKES), a philanthropic organization based near Paris, France. AKES operates more than 200 schools in the Third World and provides a variety of other educational services throughout the world. Gillani has special responsibilities in the areas of parental involvement, beginning reading and database management.

Lorens Holm, assistant professor of architecture, and **Brian McLaren**, visiting assistant professor of architecture, presented a paper titled "Site;Surface;Field" to the West Central Regional Conference of the Association of Collegiate Schools of Architecture. The conference was held Oct. 22-24 at Iowa State University in Ames.

David T. Konig, Ph.D., professor of history and department chair, delivered a paper on "Slavery, Natural Law and Constitutionalism in Eighteenth-century Virginias" at the University of Mississippi's Chancellor's Symposium on the Constitution and the Bill of Rights, held in October. He also delivered a paper on "The South's First

Justices of the Peace, 1607-1634" at the Citadel Conference on the South, and "Country Justice: The Rural Roots of Constitutionalism in Virginia" at the University of Florida School of Law's Bicentennial Conference on the South and the American Constitution.

Phillip E. Korenblat, M.D., associate professor of medicine, was the program chairman of the third biennial Clinical Allergy Abroad seminar that was held in Sweden, Denmark and England Oct. 15-25. The seminar attracted physicians from across the United States who wanted to learn more about the diagnosis and management of allergic disorders. Five faculty members from the medical school were on the seminar's faculty. They were: **Anthony Kulczycki Jr.**, M.D., associate professor of medicine and microbiology and immunology; **Charles W. Parker**, M.D., professor of medicine and microbiology and immunology; **Stephen H. Polmar**, M.D., Ph.D., professor of pediatrics and microbiology and immunology; **Robert C. Strunk**, M.D., professor of pediatrics and **H. James Wedner**, M.D., associate professor of medicine. Group discussion leaders representing clinical faculty at the school of medicine were: (**Department of Medicine**) **Arnold Danker**, M.D., associate professor; **Korenblat**; **J. Allen Thiel**, M.D., associate professor; **John Wood**, M.D., assistant professor; and (**Department of Pediatrics**) **James Corry**, M.D., assistant professor. Also accompanying the group were **Elmer B. Brown**, M.D., professor of medicine and associate dean for continuing medical education and postgraduate education and **Loretta Giacoletto**, administrative coordinator for continuing medical education. The seminar was presented by the Division of Allergy and Immunology and the Office of Continuing Medical Education at the School of Medicine in conjunction with the American Academy of Allergy and Immunology.

Richard H. Popkin, Ph.D., professor emeritus in philosophy and adjunct professor of philosophy and history at UCLA, has just published two books, *Isaac La Peyrere* (Brill), and *Spinoza's First Publication?* (Van Gorcum), the latter in collaboration with Michael Signer of Hebrew Union College. The *Spinoza* enlisted the aid of **Seymour V. Pollack**, professor of computer science, who prepared the Hebrew-English text for the Dutch publisher. Popkin attended a conference celebrating the 300th anniversary of Newton's Principia in Nijmegen, the Nether-

Faculty receive tenure

The following is a list of faculty who have been granted tenure or promoted with tenure on the Hilltop and Medical School campuses, effective Oct. 9, 1987, unless otherwise noted:

Faculty of Arts and Sciences Granting of tenure

John R. Bleeke, as associate professor of chemistry;

School of Engineering and Applied Science Granting of tenure

Barry E. Spielman, as professor of electrical engineering;

School of Medicine Promotion with tenure

William J. Powers, to associate professor of neurology, effective Oct. 1, 1987; **Granting of tenure**

George J. Broze Jr., as associate professor of medicine with tenure guaranteed by Jewish Hospital; **Demetrios G. Lappas**, as professor of anesthesiology; **Peter S. Rotwein**, as associate professor of medicine; and **Klaus J. Staisch**, as associate professor of obstetrics and gynecology.

lands, where he spoke on "Newton's Biblical Theology and Theological Physics." He also spoke in Wolfenbuttel, West Germany, on "The Career of John Dury" and at Christ College, Cambridge, on "The Spiritual Cosmology of Henry More and Anne Conway." At the end of October, he participated in a panel at a 16th-century conference in Tempe, Ariz., on "The Contemporary Relevance of Michel de Montaigne."

Robert Wiltenburg, Ph.D., assistant professor of English, presented a paper, titled "Donne's Dialogue of One: The Self and the Soul," at a conference on the Renaissance, held Oct. 16-18 at the Center for Medieval and Early Renaissance Studies, SUNY-Binghamton, N.Y.

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.

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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.

"**Drowning the Book**," a poem by Howard Nemerov, Edward Mallinckrodt Distinguished University Professor of English, was published in the Oct. 18 *Los Angeles Times*. The poem is from Nemerov's most recent book, titled *War Stories: Poems About Long Ago and Now*, released by the University of Chicago Press.

Osteoporosis in men? William A. Peck, M.D., John E. and Adeline Simon Professor of Medicine and associate chairman of medicine, explains, "Everyone loses bone tissue with age, but women have an acceleration for approximately 5 to 15 years after menopause that is not experienced by men." Except for idiopathic osteoporosis, a rare form that generally strikes men between the ages of 45 and 60, osteoporosis tends to occur significantly later in men than in women. Peck's remarks were published in the *Detroit Free Press* on Oct. 20.

MEDICAL RECORD

Wong's prototype of radiation dosimeter gets \$180,000 grant

John W. Wong, Ph.D., assistant professor of radiation physics at Mallinckrodt Institute of Radiology, has been awarded a \$180,000 two-year grant from the National Cancer Institute.

Wong is developing a faster and more economical method for precise areal measurements of radiation dosage data used to plan treatment for patients receiving radiation therapy.

Water-tank dosimeter systems now used in radiation therapy require longer data-acquisition times, limiting the number of measurements that can be taken. The system that Wong proposes would drastically cut the time needed to acquire dosimetric information.

The system, now in prototype form, is far less expensive than its predecessors. A typical scanning tank can cost from \$45,000 to \$80,000, while Wong's prototype costs about \$6,000 to build.

Because of its potential, Wong already has received inquiries about the device from several universities. He notes, however, that the system is still in the early stages of development.

Wong is with the Radiation Oncology Center at Mallinckrodt, a sponsoring institution of the Washington University Medical Center. He is conducting his work with members of the Cosmic Ray Group in the physics department on the Hilltop Campus. They are Walter R. Binns, Ph.D., senior research scientist in physics; Joseph Klarmann, Ph.D., professor of physics; Martin H. Israel, Ph.D., professor of physics and acting dean of the Faculty of Arts and Sciences; and John W. Epstein, experiment manager in the physics department.

Poetry competition for medical students

The Northeastern Ohio Universities College of Medicine is sponsoring its sixth annual William Carlos Williams poetry writing competition for medical students.

The editors of JAMA will review the winning poems and consider them for possible publication.

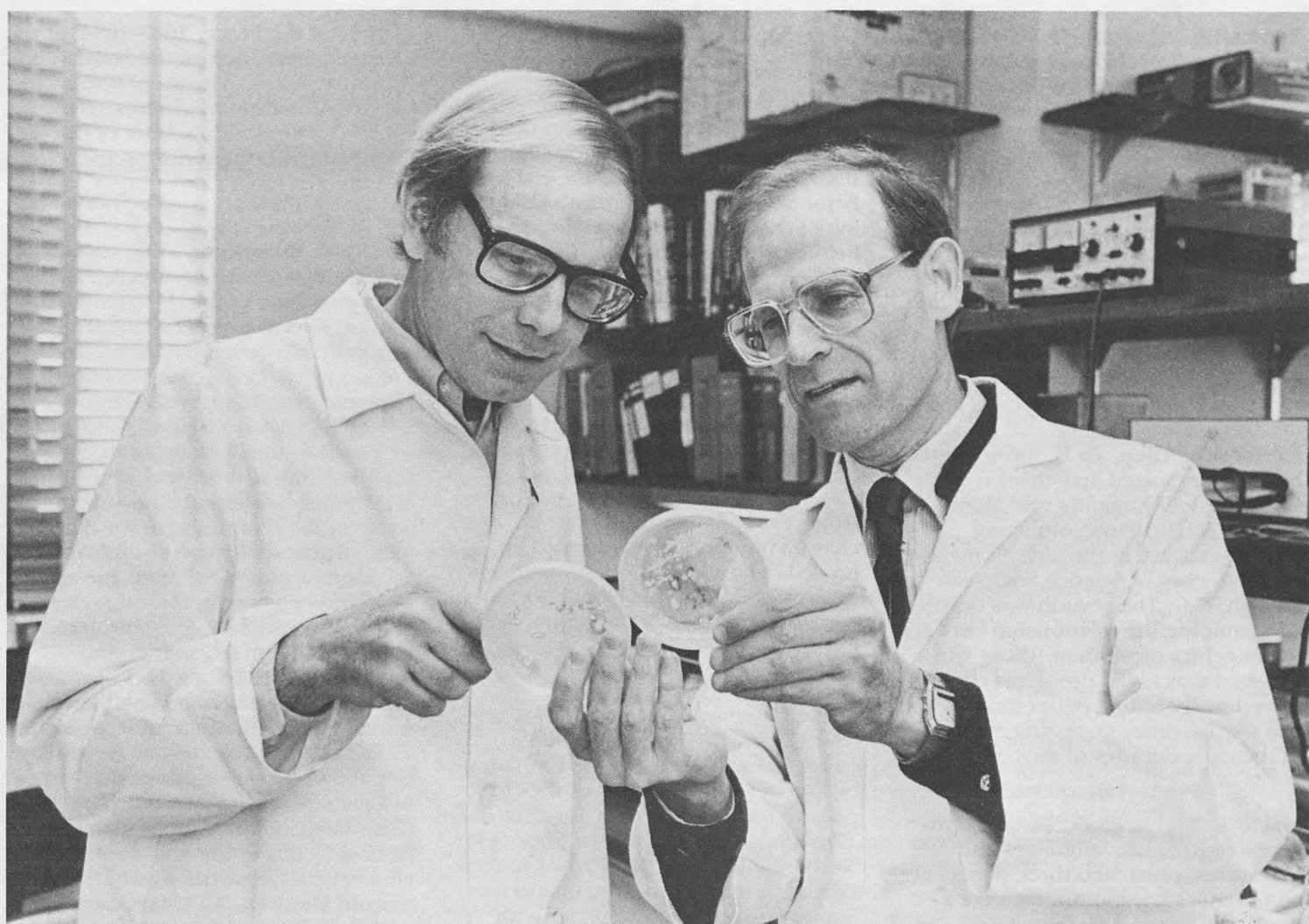
Participants are permitted to send three entries that must be postmarked by Dec. 31, 1987. Poems are not to exceed 750 words and must be typed on 8 1/2" x 11" paper.

A separate cover page for each poem must include the poet's name, home address, phone number, Social Security number, medical school and title of work. Because entries will be submitted anonymously to the judges, five copies of each poem must be submitted with only the title appearing at the head of each page.

Each poem must be original, unpublished and not a winner in any contest at the time of submission. Previous winners in the William Carlos Williams poetry competition are not eligible.

Winners will be announced March 31, 1988. The top three poets will be awarded \$300, \$200 and \$100, respectively.

Entries should be mailed to: Human Values in Medicine Program, Northeastern Ohio Universities College of Medicine, P.O. Box 95, Rootstown, Ohio 44272. Phone: (216) 325-2511.



Maynard Olson, Ph.D., (left) associate director of the new genetics center, works with David Schlessinger, Ph.D., director of the center.

New genetics center — *continued from p. 1*

gap between human genetics studies at the family level and laboratory studies of small bits of DNA," he comments.

In addition to the work of Olson's group, a special collaboration forged with RIKEN, Japan's Institute of Physical and Chemical Research, permits access to that institute's DNA sequencing facility. "The Japanese are significantly advanced in developing technology that determines the sequence of nucleotides that comprise the human genome. We will combine our skills in cloning and mapping with their ability in sequencing," says Schlessinger.

"Washington University's prominence in genetics can be attributed in large part to Mr. James S. McDonnell's support in establishing the department 20 years ago," said Chancellor Danforth. "This latest gift from the McDonnell Foundation places the University among the leading institutions in the world working to decipher the human genome. We look forward to cooperating with the highly respected scientists of RIKEN, and believe that by sharing our techniques and ideas, we can help to achieve this exciting goal of learning the genetic structure of humans."

Revealing the human genetic structure could enable scientists to discover the genetic basis for some 3,500 diseases already known to be caused by defects in genes, and conceivably offer ways to correct those defects. It also would add significantly to knowledge about normal embryonic development, function of the nervous and immune systems, and about very complex diseases, including heart disease and cancer as well as such serious behavioral disorders as schizophrenia and alcoholism.

The effort to fully understand the genetic structure of humans is vast: scientists believe that the human body contains at least 100,000 genes situated on its 46 chromosomes. Each gene is made up of many thousands of base pairs — chemical units that link in pairs to form long double-helical chains of DNA, the body's carrier of genetic information. The ultimate goal of human genome projects is sequencing the staggering total of some three billion base pairs in the genome.

The Center for Genetics in Medicine has been designed to contribute pilot studies for the massive endeavor. It will include two units: a core facility that will focus on state-of-the-art cloning, mapping and related technology; and a developmental facility that will be devoted to improving technology. The center will store a library of cloned human DNA. The computer science department will contribute extensively to the project by developing software for handling the massive amounts of data acquired.

The Center for Genetics in Medicine initially will be housed in space set aside in the McDonnell Medical Sciences Building. In addition to the McDonnell Foundation's funding to initiate the program, other sources of funding will be sought.

The McDonnell Foundation grant is made as part of the University's fund-raising campaign, the ALLIANCE FOR WASHINGTON UNIVERSITY. To date, gifts and firm commitments to the ALLIANCE total more than \$580 million.

The James S. McDonnell Foundation was established by the late aerospace pioneer who guided the McDonnell Douglas Corp. from its beginnings in 1939 until his death in 1980.

McDonnell — who had a long-time interest in the field of genetics — provided funds for the McDonnell Medical Sciences Building, as well as endowments creating the McDonnell Department of Genetics, the McDonnell Professorship of Genetics and the McDonnell Professorship in Biochemical Genetics. He served as a member of Washington University's Board of Trustees and as chairman from 1963-66. He was also the first chairman of the Washington University Medical Center.

The McDonnell Foundation also has provided gifts to establish two other research centers at the School of Medicine. In 1983 it provided funds to create the Center for Cellular and Molecular Neurobiology, and a gift in 1980 established the McDonnell Center for Studies of Higher Brain Function.

Diabetes study needs volunteers

Researchers at the School of Medicine are seeking volunteers for a new diabetes study.

The study involves testing a new oral medication to see how effectively it can lower sugar and lipid levels in the blood. Needed in the study are persons with mild adult-onset diabetes who are 35-65 years old, slightly overweight and in good health. Participants will be hospitalized for 19 days for blood tests and observation. Volunteers who are selected to participate will be paid \$1,000.

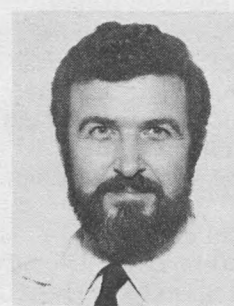
For more information, call the Division of Metabolism at 362-6914.

50,000 lives a year could be saved with heart attack drug

Jubilance was the reaction at the American Heart Association meeting to the long-awaited government approval of t-PA – the drug that in more than 2/3 of patients dissolves blood clots that cause heart attacks – say Washington University cardiologists.

Approval of the drug was announced by the Food and Drug Administration Nov. 13, just before the heart association's annual meeting Nov. 16-20 in Miami.

"The attitude was very enthusiastic and upbeat," reports Philip A. Ludbrook, M.D., a member of the



School of Medicine's t-PA research team. "It was clear that people were jubilant about the approval – not only pharmaceutical company officials, and physicians who had been involved in the developmental phase of the drug, but cardiologists in general, because they would now have access to the drug to treat their own patients." Ludbrook, with Alan J. Tiefenbrunn, M.D., directed the pilot studies, as well as Washington University's participation in the multi-center TIMI trial, to determine t-PA's safety and effectiveness as an emergency treatment for heart attack victims.

t-PA is tissue plasminogen activator, a protein that occurs naturally in the body in minute amounts. Using recombinant DNA techniques, biotechnologists have been able to produce the drug in large quantities. The drug is patented and manufactured by Genentech Inc., of San Francisco.

The drug's approval became a matter of public debate May 29, when an influential FDA advisory panel recommended



against approving it for widespread use; that same day, the panel voted to approve intravenous use of streptokinase, another thrombolytic drug. Experts generally attribute the panel's decision to a misinterpretation of data, and to a last-minute request for proof that t-PA improves mortality, even though the ability of the drug to dissolve blood clots occluding the coronary arteries, and to improve heart function in heart attack victims had been incontrovertibly demonstrated. Unlike streptokinase, which has been studied since the late 1940s, there are no long-term survival studies for t-PA.

The FDA, however, chose not to act on the advisory panel's recommendation, and six months later approved the drug.

Tiefenbrunn comments, "It's quite phenomenal, really, how quickly t-PA was approved. The first patients in the world to receive Genentech's recombinant version of the drug were in February of 1984, and less than four years later it was approved. It usually takes much longer than that."

Much of the groundwork leading to t-PA's approval for widespread use was done at Washington University Medical Center. The initial research with animals and the pilot study in human patients were conducted by the

cardiovascular division, under the direction of Burton Sobel, M.D. Sobel's team also is responsible for several developments needed to understand the clinical pharmacology of t-PA, and for major contributions to the multi-center clinical trials that established its efficacy and safety.

"This process epitomizes what we strive for in modern medical research," Ludbrook says. "It's certainly something that not many people have a chance to do during their research lifetime – seeing a dramatic new procedure or drug transferred all the way from the basic science laboratory bench right through to its proven clinical application."

Belgian researcher Desire Collen of the University of Leuven is generally considered "the father" of t-PA, since his laboratory work resulted in isolation of the protein for pharmacologic use, and elucidation of its lytic (clot dissolving) properties. However, Sobel is often credited for engineering its clinical introduction. "It was his genius to recognize the drug's potential salutary role in heart attack patients, to kindle enthusiasm for its initial pilot trials, and stimulate its widespread clinical application," Ludbrook comments.

Now that the drug has the FDA's blessing, its applications – and implications – are far-reaching.

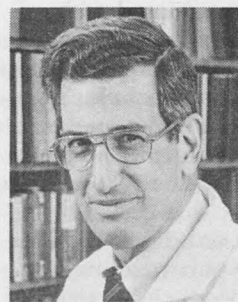
"The availability of t-PA, coupled with the urgently needed enhanced education of all potential victims of heart attacks by their physicians, should lead to a reduction of mortality from this devastating affliction, saving as many as 50,000 lives per year," Sobel says.

Tiefenbrunn adds, "A lot of people are going to receive this drug. We in the division have had the opportunity to give lectures on t-PA across the country, and we were always being asked when it would be available and how much it would cost. Now we know it will be available in a few weeks at approximately \$2,000 a dose."

According to Ludbrook, the approval means a whole new era in the management of heart attacks. He says the treatment of choice will be t-PA.

"The approval allows us to make t-PA available to virtually any appropriate patient across the country who has a heart attack." That means that the majority of people who have a heart attack, who perhaps don't have immediate access to a major medical center can still be treated in the best possible way because they can get t-PA from the pharmacy shelf in hospitals anywhere in the country.

"That's the beauty of t-PA – it can be given anywhere, and it's the best available treatment that anyone can have." Patients who receive t-PA in the very early stages of heart attack can always be transferred to a major medical center, if necessary, for further



Burton E. Sobel treatment, he adds.

Early intervention represents a radical change in medical care for heart attack victims, Ludbrook points out. Previously, standard procedure was prolonged bed rest, then observation of the patient and treatment of any complications that might occur.

The impact of that change in treatment is vast. Estimates are that there are 1.5 million heart attacks yearly in this country, and that they cause about 550,000 deaths. It hasn't been proven yet, but t-PA researchers believe the drug will prevent many of those deaths from occurring. Another vitally important benefit is that it will limit the size of heart attacks.

"It's very well known that the long-term prognosis depends upon the size of the heart attack, and conversely the amount of functional heart muscle that remains after the heart attack," Ludbrook says. "So, reducing the size of a heart attack is tremendously important in regard to subsequent cardiovascular health."

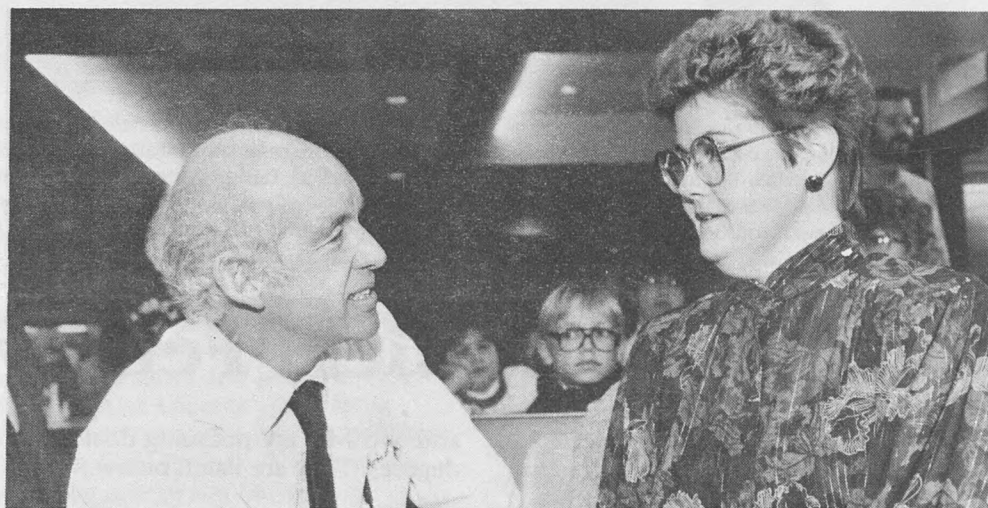
With t-PA, physicians can prevent death and save myocardium, he says, but only if it is administered in the very early stages of heart attack.

"It is key that patients present early, and that's where the medical community must engage in widespread public education," Ludbrook says. "Minutes

are crucial. If people don't present with their chest pain until five or six hours after it begins, the horse is out of the barn. Patients must be educated as to what are suspicious symptoms, and taught to present early. To successfully salvage heart muscle t-PA must be given within just a few hours of the onset of chest pain."

Tiefenbrunn notes that in the future, it may be possible for people at risk for heart attack to give themselves injections, using syringes similar to those diabetics use. Also, though there have been only limited formal investigations, there is potential for t-PA to be useful in treating a number of other clot-related conditions, including emboli, peripheral thrombotic disease and retinal/vascular thrombotic disease.

"Without a doubt this is the most important and most clinically applicable research project that we've been involved in," Ludbrook says. "It's one of the biggest developments of the decade in Cardiology."



Pediatrics Professor Alan Robson, M.D., is reunited with former patient Rayetta Salchow. She was the medical center's first pediatric transplant recipient 23 years ago.

Pediatric transplant reunion held

"The doctors told my parents that if I lived one year after the transplant, they'd consider that good. We had to live one day at a time," recalled Rayetta Salchow of Springfield, Mo.

It's been nearly 23 years since Salchow had a kidney transplant at Washington University Medical Center. She has lived longer than any other transplant recipient in the nation.

At the second annual Transplant Reunion at Children's Hospital on Nov. 27, about 30 former patients were reunited with the medical and nursing staff who helped renew or enhance their lives through transplantation.

The patients received kidney, heart, liver, cornea or bone marrow transplants. The reunion was sponsored by Children's Hospital and the Washington University Medical Center Department of Surgery/Organ Transplantation.

"Back then we had never heard of a kidney transplant," said Salchow. "We were a little apprehensive at first. But we realized it was the only chance we had to beat the kidney disease."

The success rate for organ transplantation has doubled in the last five years, due largely to the drugs cyclosporin and OKT-3, said M. Wayne Flye, M.D., professor of microbiology and immunology and surgery and director of the transplantation program at the hospital and medical center.

By better suppressing the body's rejection of transplanted organs and by reducing side effects, the drugs have made transplantation more feasible,

particularly in pediatric and elderly patients.

For a kidney transplant from a living relative, the success rate is over 90 percent, Flye said. The expected success of cadaveric kidney transplants is 80 to 85 percent. Heart transplantation has a success rate of 75 to 80 percent. Liver transplants are successful in 65 to 75 percent of the cases.

Livers are more difficult to transplant due to the small size of connecting tissues and the lack of back-up support systems. "The liver is second in complexity only to the nervous system," said Flye.

Former patients of Children's include the youngest liver transplant patient and Missouri's youngest heart transplant recipient.

Better outcomes from transplants have made more patients eligible for transplantation.

"Donor activity is still the limiting factor in organ transplantation," Flye said. There is a particular shortage of organs for pediatric patients, who are likely to be too small to accept an adult organ.

"Transplantation is the best treatment for organ failure that we have right now. All these patients have exhausted other forms of treatment."

"The only reason a patient is able to receive a transplant is because of another's generosity," said Flye. "It's a topic that we need to continually educate the public about."

MEDICAL RECORD



Nobel Wall: As part of the National Institutes of Health (NIH) centennial celebration held here recently, the south wall in the McDonnell Medical Sciences Building was dedicated to Nobel Prize winners having substantive associations with Washington University. Much of the Nobel laureates' prize-winning work was funded by the NIH. Key figures in planning the wall were (from left): Paul Anderson, Ph.D., assistant professor of biomedical communication and archivist at the School of Medicine; Mabel Purkerson, M.D., associate professor of medicine, assistant professor of pediatrics, and associate dean for curriculum at the School of Medicine; and Gerald Fischbach, M.D., Edison Professor of Neurobiology and Head of the Department of Anatomy and Neurobiology.

First Olin Medical Fellows are named

The School of Medicine has selected 12 students to be named the first Spencer T. and Ann W. Olin Medical Fellows.

The fellowships were made possible by a \$30 million gift from the Spencer T. and Ann W. Olin Foundation as part of the ALLIANCE FOR WASHINGTON UNIVERSITY fundraising campaign. The award is providing \$1.5 million a year for the next 20 years and is part of the University's permanent endowment.

The fellowships were created in an effort to help fill the continuing shortage of physicians who pursue careers in biomedical research. The awards are primarily being awarded to students in the six-year Medical Scientist Training Program (MSTP), a program that trains students simultaneously as physicians and researchers. MSTP students graduate with a combined M.D./Ph.D. degree.

Olin fellowships also are awarded to selected students pursuing doctoral degrees in biomedical science.

"The students selected as Olin Fellows are the best of best," says chairman of the Olin committee Daniel Hartl, Ph.D., the James S. McDonnell Professor of Genetics and head of the department. "They will be the leaders of biomedical research in the 21st century and eventually will be represented at every important medical research center in the United States."

The fellowships provide full tuition, living expenses and a small annual grant for books, journals and research supplies.

Fellowships are not applied for, but are based on nominations submitted by faculty, MSTP students and doctoral candidates. Final selection is made by a committee headed by Hartl.

An awards luncheon will be held Dec. 3 to recognize the new Olin Fellows, ten from the MSTP Program

and two who are pursuing doctoral degrees. They are listed below.

MSTP

Richard J. Auchus received a bachelor's degree in chemistry at the Massachusetts Institute of Technology with a perfect grade point average in science. He has completed his pharmacology program thesis work on substances that inactivate enzymes of hormone metabolism in the human placenta. This work was carried out in the laboratory of Douglas Covey, Ph.D., associate professor of pharmacology. He will graduate in 1988.

Mark Behlke enrolled in the MSTP program after receiving a bachelor's degree in biology from the Massachusetts Institute of Technology where he was a National Merit Scholar. During his first year of medical school, he received the Carl T. and Gerty F. Cori Prize in Biochemistry. His thesis project, conducted in the laboratory of Dennis Loh, M.D., assistant professor of medicine and microbiology and immunology, emphasized the molecular genetics of the immune T cell receptor. He will graduate in 1988.

Tommy W. Chu received a bachelor's degree magna cum laude with highest distinction in biochemistry from the University of Illinois. He conducted his molecular biology thesis work in the laboratory of Arnold Strauss, M.D., professor of biological chemistry and pediatrics.

His project included the functional analysis of a mammalian mitochondrial import signal. He will graduate in 1989.

Phyllis Faust received a bachelor's degree in chemistry from the State University of New York at Potsdam and five months later completed a bachelor's degree summa cum laude in chemical engineering from Clarkson

College. In her first year of medical school, she received the Carl T. and Gerty F. Cori prize in biochemistry. Her thesis project involves the determination of a protein domain responsible for specific phosphorylation of lysosomal enzymes. She is conducting her thesis in the laboratory of Stuart Kornfeld, M.D., professor of biological chemistry and medicine. She will graduate in 1989.

Robert Heuckeroth received his bachelor's degree in chemistry from the University of Maryland where he graduated summa cum laude with high honors. During his first year of medical school, he received the George F. Gill and Kehar S. Chouke Prizes in Anatomy. In his molecular biology thesis project, he is using fatty acid analogs to investigate the role of covalently bound lipid in protein targeting and function. He is conducting his research in the laboratory of Jeffrey Gordon, M.D., professor of biological chemistry and medicine. He will graduate in 1990.

Roger Inhorn graduated with distinction with a perfect grade point average from the University of Wisconsin, where he received bachelor's degrees in molecular biology, mathematics and zoology. During his first year of medical school he received the Carl T. and Gerty F. Cori prize in biochemistry. He is studying the enzymology of inositol phosphate metabolism for his thesis in the laboratory of Philip Majerus, M.D., professor of biological chemistry and medicine. He will graduate in 1990.

Jonathan Mink graduated cum laude with bachelor's degrees in biology and psychology from Wesleyan University. While completing his neural sciences research project in the laboratory of W. Thomas Thach, M.D., professor of anatomy and neurobiol-

ogy and neurology and neurological surgery, he was awarded the James L. O'Leary Prize for Research in Neuroscience. His thesis gives evidence that the output of the basal ganglia (those parts of the brain affected by Parkinson's Disease) serves to inhibit postural holding mechanisms in the brain stem. In Parkinson's Disease these postural holding mechanisms cannot be turned off, which may be a principle reason for the difficulty in making voluntary movements. He will graduate in 1989.

David Sweetser graduated with distinction from Stanford University with bachelor's and master's degrees in biology. Sweetser's research project, conducted in the laboratory of Jeffrey Gordon, M.D., professor of biological chemistry and medicine, includes the use of transgenic mice to study the gradients of gene expression in the mammalian intestine. He will graduate in 1989.

Megumi Taniuchi graduated summa cum laude from Yale University with bachelor's and master's degrees in molecular biophysics and biochemistry. While completing his neural sciences research project in the laboratory of Eugene Johnson, Ph.D., professor of pharmacology, he was awarded the James L. O'Leary Prize for Research in Neuroscience. Other honors include the Mead Johnson Excellence Research Award, The Roche Laboratories Award, The James E. Beall II Award in Neuroscience and the AMA Award in Basic Science. His thesis project involved the use of a monoclonal antibody to study the structure of and regulation of the expression of the nerve growth factor receptor. He will graduate in 1988.

Dwight Towler graduated summa cum laude from Moorhead State University with a bachelor's degree in chemistry. During his first year in medical school, he received the Richard S. Brookings Medical School Prize. His thesis project involved isolating and characterizing the enzyme which is responsible for adding a fatty acid (myristate) to certain biologically important proteins. He conducted his research in the laboratories of Luis Glaser, Ph.D., adjunct professor of biological chemistry, and Jeffrey Gordon, M.D., professor of biological chemistry and medicine. He will graduate in 1989.

Doctoral students

David Burke received a bachelor's degree in biology and biochemistry from the University of Rochester in New York. His dissertation research work, being conducted in the laboratory of Maynard Olson, Ph.D., professor of genetics, includes characterization of the tyrosine transfer RNA gene family in the yeast *Saccharomyces cerevisiae*. More recently he has developed a novel system for cloning and propagating large molecules of human genomic DNA, using *Saccharomyces* as the host organism. He will graduate in 1988.

Qiao Yan received a bachelor's degree in physiology from the Fudan University in the People's Republic of China. He then studied neuroscience as well as English at the Shanghai Brain Research Institute and was awarded a scholarship for graduate study in the United States. Yan is carrying out his dissertation research in the laboratory of Eugene Johnson, Ph.D., professor of pharmacology. He is studying the role of neural growth factor receptors in rat neural development. He will graduate in 1988.

PERSONNEL NEWS



Successful campaign

Four-year-old Ryan Kress, who receives therapy from the United Services for the Handicapped, and 13-year-old Jay Washington, who volunteers at the Mathews-Dickey Boys' Club, are St. Louis United Way campaign poster children, representing two of the 126 organizations supported by the United Way. Thomas A. Harig, Washington University's United Way chairman, reports that the University has exceeded its \$160,000 goal for the 1987 campaign. To date, 1,099 Washington employees have contributed a record \$161,297 to the United Way. This amount exceeds last year's total by more than 10 percent. "The United Way theme, 'The United Way brings out the best in all of us,' certainly rings true for the 1,099 employees who participated in this year's campaign," says Harig. The University campaign coordinators were Florence Freeman, Hilltop Campus; Gene Mueth, Medical School; and John Sahrman, D.M.D., Dental School.

Medical coverage deadline set; other benefits news explained

At midnight, Dec. 31, 1987, Blue Cross-Blue Shield coverage ends for dependent, unmarried children who have reached age 23 during the current year. For continued Blue Cross-Blue Shield coverage, these dependent children must elect continuation coverage (COBRA) before Dec. 31.

Contact the Personnel Office at 889-5990 for an election form.

Retirement annuity

Federal law requires that the retirement annuity plan be changed. Effective Jan. 1, 1988, the University's monthly contribution to the TIAA-CREF Retirement Annuity plan will be continued after participants reach normal retirement age.

Employees who have continued to work beyond the normal retirement age and who lost the University contribution will have the contribution reinstated going forward from Jan. 1, 1988. To have the University contribu-

tion reinstated, the employee has to be a current participant and must be making the required minimum contribution under the Basic Plan of 5 percent of salary.

The normal retirement ages and dates will remain in the plan:

1. For administrators (deans, department heads, etc.), the end of the fiscal year in which the appointee attains age 65.

2. For staff employees, the end of the month in which the employee attains age 65; except for those hired prior to Jan. 1, 1973, for whom the normal retirement date is the last day of the fiscal year in which the employee attains age 65.

3. For faculty, the last day of the fiscal year in which the faculty member attains age 68.

Health insurance

Recently the Consolidated Omnibus Budget Reconciliation Act (CO-

BRA) of 1986 amended the Social Security Act to prohibit large group health plans from "carving out" Medicare benefits for the disabled participants.

Any totally disabled individual, under age 65, and covered by Social Security is eligible for Medicare after completing 29 months of total disability. The total disability period includes the five-month Social Security disability benefit waiting period and 24 months of receiving Social Security disability benefits.

Prior to COBRA, employer-sponsored health plans paid after Medicare for disabled employees and disabled-covered family members.

The COBRA amendment requires that the employer-sponsored health plan be the primary payer for disabled employees.

Tax break given to low-income wage earners supporting families

The Federal Insurance Contribution Act, FICA, tax will rise for 1988. The tax rate for 1987 was 7.15 percent on the first \$43,800 paid in 1987. The tax rate will be 7.51 percent on the first \$45,000 paid in 1988, with the maximum tax being \$3,379.50 and a matching amount paid by the employer.

Earned Income Credit

Taxpayers who qualify for the Earned Income Credit (EIC) can receive advance payments in their paychecks, according to the Internal Revenue Service.

The EIC was established by Congress to give a direct tax benefit to low-income wage earners who support a family.

To receive advance payments, taxpayers must fill out Form W-5, Earned Income Credit Advance Payment Certificate, available from the IRS, and give it to their employer.

Professional positions posted

Washington University is conducting searches to fill three professional positions on the Hilltop Campus. Detailed information about the qualifications and the application process is available from Sharon George in the Personnel Office at 889-5990.

Corporate and Foundation Relations

Assistant Director of Corporate and Foundation Relations and Director of Development for the Center for the Study of American Business

Candidates must have a bachelor's degree. A minimum of two years experience in fund raising is desired. The ability to communicate effectively, both orally and in writing, is required.

Application deadline: Dec. 31, 1987.

Investment Accounting

Manager of Investment Accounting
The manager works under the general direction of the treasurer. Responsible for the supervision of all related investment activity.

Candidates must have a degree in accounting plus three to five years of experience.

Application deadline: Dec. 31, 1987.

Alumni and Development Programs

Associate Director Annual Giving Programs

Accidental death and dismemberment benefits

The accidental death and dismemberment benefit is part of the Washington University Optional Group Life Insurance Plan.

In the event that death occurs within 90 days of and due to an accident, an additional benefit equal to your amount of life insurance will be paid to your beneficiary. This benefit covers both on and off the job accidents and would be paid in addition to any benefits received under the University's Travel Accident Insurance.

A dismemberment provision also is provided. The dismemberment benefit would pay one-half the principle amount for loss of one body member or the full principle amount for the loss of two body members.

Generally, the requirements for the EIC are that the taxpayers must have income (including earned income) of less than \$15,432 in 1987 and have one or more children living with them for more than one half of the year.

The credit can be as much as \$851.20 annually and is based on a percentage of the taxpayer's earned income. The credit will phase out between \$6,920 and \$15,432 income. It can be paid in advance, refunded when the return is filed, or credited against any tax owed. Taxpayers who qualify must file a Form 1040 or 1040A for the year they receive the EIC even if they are not otherwise required to file an income tax return. Those who file as single or married filing separate are not eligible for the credit.

The income phase-out levels will be raised for 1988. For more information, taxpayers should contact the IRS.

Challenging and permanent position in the Office of University Relations. Candidates must have a college or university degree and experience in alumni/development or related work. Specific responsibilities will include the direct mail, phonathon and Eliot Society programs.

Excellent writing, speaking and organizational skills are essential.

In addition to the professional/managerial searches, qualified candidates are being sought to fill secretarial, clerical and technical positions. Information about these positions is available through the Medical Campus Personnel Office, 4550 McKinley Ave., 362-7195, and the Hilltop Campus Personnel Office, South Brookings Hall, One Brookings Drive, 889-5990.

Washington University is an affirmative action/equal opportunity employer.

Personnel News

Personnel News appears monthly in the Record and is prepared by Gloria W. White, associate vice chancellor for personnel and affirmative action, and other members of the Personnel Office. Personnel News is designed to keep Washington University employees and their families informed of the benefits and opportunities available at the University.

CALENDAR

Dec. 3-12

LECTURES

Thursday, Dec. 3

1:10 p.m. George Warren Brown School of Social Work Colloquium, "Participatory Management in a State Social Service Agency," William Siedhoff, director, Missouri Division of Family Services. Brown Hall Lounge.

3 p.m. Oral Examination for Ph.D. Degree, "Synthesis, Solution Dynamics and Reactivity of 2,4-Dimethylpentadienyl-Rhodium-Phosphine and -Phosphite Complexes," title of dissertation of Andrew J. Donaldson, graduate student in chemistry. 311 McMillen.

4 p.m. Public Affairs Thursday Lecture, "Zimbabwe's Lessons for South Africa's Future," Stephen Stedman, WU instructor in political science. Eliot 200 C and D.

4 p.m. Dept. of Earth and Planetary Sciences Seminar, "Reconstruction of Atmospheric CO₂ Levels From Isotopic Data," John M. Hayes, prof. of geological sciences, Indiana U.-Bloomington. 102 Wilson.

Friday, Dec. 4

4 p.m. Dept. of Music Lecture Series, "The British National Anthem Project in 19th Century India," Charles Capwell, U. of Illinois. Blewett B-8.

6 and 8:30 p.m. WU Association Film Travel Lecture Series, "A Russian Journey," Clay Francisco, filmmaker. Graham Chapel. For ticket info., call 889-5122.

Monday, Dec. 7

4 p.m. Dept. of Biology Seminar, "Translational Control Mediated by mRNA Structure," Marilyn Kozak, Dept. of Biological Sciences, U. of Pittsburgh. 322 Rebstock.

Tuesday, Dec. 8

4 p.m. Dept. of Chemistry Seminar with M.G. Finn, Dept. of Chemistry, Stanford U. 311 McMillen.

Wednesday, Dec. 9

2 p.m. Dept. of Physics Special Seminar, "How I Will Make My First Million as an Astronomer or Visual Acuity, Archaeoastronomy and the Muslim Calendar," Bradley E. Schaefer, NASA Goddard Space Flight Center. 201 Crow.

4 p.m. Dept. of Mathematics Analysis Seminar, "Weak Solutions of the Porous Medium Equation," Bjorn Dahlberg, WU prof. of mathematics. 199 Cupples I.

4 p.m. Dept. of Physics Colloquium, "Optical Emission From Crystalline Silicon," Dennis G. Hall, assoc. prof. of physics, U. of Rochester. 204 Crow.

8 p.m. Dept. of English/The Writing Program Fiction and Poetry Readings with students in the program. Hurst Lounge, Duncker Hall.

Thursday, Dec. 10

4 p.m. Dept. of Philosophy Colloquium, "Neurophilosophy: Toward a Unified Science of the Mind/Brain," Patricia Smith Churchland, prof. of philosophy, U. of California-San Diego. Hurst Lounge, Duncker Hall.

4 p.m. Dept. of Earth and Planetary Sciences Carl Tolman Colloquium, "The Great Slave Lake Shear Zone - Reconstructed Vertical Profile of a Crustal Scale Strike-Slip Fault Zone," Simon Hammer, senior geologist with the Canadian Geological Survey, Ottawa, Canada. 102 Wilson.

4 p.m. Dept. of Chemistry Seminar, "Sequence Specific Recognition and Cleavage of DNA," Peter Dervan, prof. of chemistry, California Institute of Technology. 311 McMillen.

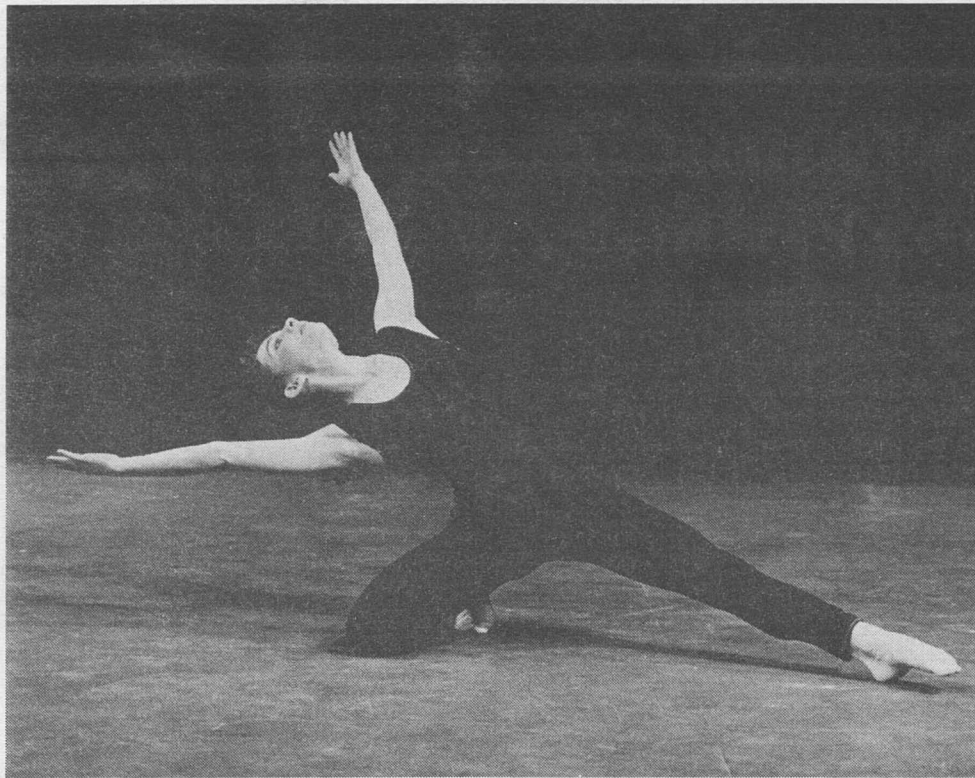
Friday, Dec. 11

4 p.m. Dept. of Chemistry Seminar, "Unusual Pocket Ligands for Non-Metal and Metal Chelation," John Verkade, prof. of chemistry, Iowa State U. 311 McMillen.

PERFORMANCES

Friday, Dec. 4

8 p.m. Performing Arts Dept. Presents the Student-Faculty Dance Concert at Edison Theatre. (Also Sat., Dec. 5, same time, Edison.) Tickets are \$5 for general public and \$4 for senior citizens, faculty, staff and students.



Dance Theatre: Amy Schactman, an alumna of the dance division of the Performing Arts Department, will perform her piece "Two Wishes Left" in the department's annual Dance Theatre concert at 8 p.m. Friday and Saturday, Dec. 4-5, in Edison Theatre. The concert features the choreography of faculty and alumni, which will be performed by students. Tickets are \$5 to the general public and \$4 to senior citizens, faculty, staff and students. For more information, call the Edison Theatre box office at 889-6543.

MUSIC

Saturday, Dec. 5

8 p.m. WU 21st Annual Madrigal Christmas Concert with Orland Johnson, director. Holmes Lounge.

Sunday, Dec. 6

8 p.m. WU Faculty Recital with Mary Henderson, mezzo-soprano, and Jeffrey Noonan, guitar. The Sheldon concert hall, 3648 Washington Ave.

Tuesday, Dec. 8

8 p.m. WU Mixed Choir Concert. Graham Chapel.

EXHIBITIONS

"Faculty Show," works by WU faculty. Gallery of Art, upper galleries. Dec. 6 - Feb. 7. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Student Three-Dimensional Work," Dec. 6-13. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4643.

"A Community of Readers: Books That Made a Difference," an exhibit of books selected by WU distinguished faculty and administrators. Through Dec. 31. Olin Library, Special Collections, Level 5. 8:30 a.m.-5 p.m. weekdays.

FILMS

Thursday, Dec. 3

7 and 9:15 p.m. WU Filmboard Series, "Savages." \$2. Brown Hall.

Friday, Dec. 4

8 and 10 p.m. WU Filmboard Series, "Streetwise." \$2. Brown Hall. (Also Sat., Dec. 5, same times, and Sun., Dec. 6, at 7 p.m., Brown.)

Midnight. WU Filmboard Series, "Sleeper." \$2. Brown Hall. (Also Sat., Dec. 5, same time, and Sun., Dec. 6, at 9 p.m., Brown.) On Dec. 4 and 5, both the feature and midnight films can be seen for a double feature price of \$3.

Dec. 4-6: Special Short: "Mindscape."

Monday, Dec. 7

7 and 9:30 p.m. WU Filmboard Series, "You Can't Take It With You." \$2. Brown Hall. (Also Tues., Dec. 8, same times, Brown.)

Wednesday, Dec. 9

7 and 9 p.m. WU Filmboard Series, "Persona." \$2. Brown Hall. (Also Thurs., Dec. 10, same times, Brown.)

Friday, Dec. 11

7 and 9:30 p.m. WU Filmboard Series, "Time Bandits." \$2. Brown Hall. (Also Sat., Dec. 12, same times, and Sun., Dec. 13, at 7 p.m., Brown.)

Midnight. WU Filmboard Series, "Heavy Metal." \$2. Brown Hall. (Also Sat., Dec. 12, same time, and Sun., Dec. 13, at 9:30 p.m., Brown.) Both the feature and midnight films can be seen for a double feature price of \$3.

SPORTS

Friday, Dec. 4

WU Lopata Basketball Classic 6 p.m. Claremont-Mudd vs. Amherst. 8 p.m. WU vs. Swarthmore. Field House.

Saturday, Dec. 5

11 a.m. Men's and Women's Swimming and Diving, WU vs. U. of Missouri-St. Louis. Millstone Pool.

WU Lopata Basketball Classic 6 p.m. consolation game. 8 p.m. championship game. Field House.

Tuesday, Dec. 8

7:30 p.m. Men's Basketball, WU vs. Millikin U. Field House.

Saturday, Dec. 12

5:30 p.m. Women's Basketball, WU vs. U. of Missouri-St. Louis. Field House.

7:30 p.m. Men's Basketball, WU vs. U. of Missouri-St. Louis. Field House.

MISCELLANY

Friday, Dec. 4

Noon. WU Woman's Club Mini-Luncheon. Joanne Cruickshank, mezzo-soprano, will sing Chanukah and Christmas songs at the event in the Women's Bldg. Cost is \$2 for members and \$3 for guests. A courtesy shuttle bus will be available at the University's northeast corner parking lot, starting at 11:30 a.m. For reservations and more info., call Ruth Drake, 721-4829, or Coreen Motard, 645-2022.

Calendar Deadline

The deadline to submit items for the Dec. 10-Jan. 23 calendar of the Washington University Record is Dec. 3. 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.

Faculty — continued from p. 2

Prior to that he was instructor of anesthesia and attending physician in the respiratory intensive care unit at Massachusetts General Hospital in Boston. He received his medical degree from the University of Virginia in 1976. His research involves using nuclear magnetic resonance spectroscopy to examine the nature of the metabolic defect in sepsis and cancer.

Robert G. Kranz, Ph.D., assistant professor of biology, comes to Washington from the University of Chicago, where he was a research associate. He earned a doctorate in biochemistry in 1983 from the University of Illinois, and a master's degree in microbiology in 1978 and a bachelor's degree in biology in 1975, both from Northern Illinois University. He did postdoctoral research in molecular genetics at the University of Chicago.

Demetrios G. Lappas, M.D., professor of anesthesiology, was an associate professor of anesthesia at Harvard Medical School. He received his medical degree in 1961 from Aristotelian University in Thessaloniki, Greece. His research interests are in the area of myocardial metabolism and hemodynamics in patients with coronary artery disease during the peri-operative period, specifically the effect of drug administration and other therapeutic interventions on coronary circulation and myocardial metabolism.

Stephen R. Lawrence, assistant professor of operations and manufacturing management, comes to the business school from Carnegie-Mellon University, where he is enrolled in a doctoral program in operations management. He earned a master's degree in operations management in 1985 from Carnegie-Mellon. He received three degrees from Purdue University: master's in urban planning in 1975; master's in engineering sciences in 1975; and a bachelor's in engineering sciences in 1973. His main research interest is the impact of operating decisions on the performance of the firm as a whole. He also has a strong interest in the management and diffusion of technology in organizations.

Stuart Queen memorial service held in California

A memorial service for Stuart A. Queen, Ph.D., professor emeritus and former chairman in the Department of Sociology, was held Nov. 21 in San Diego, Calif.

Queen died Sept. 28, 1987, in a convalescent hospital in San Diego. He was 97.

He taught sociology at the University from 1932 to 1958 and served as chairman of the sociology department from 1951-56. From 1946 to 1949 he was dean of the College of Liberal Arts, now the College of Arts and Sciences. He also served as acting University librarian and chairman of the faculty library committee from 1943-46.

He retired to San Diego in 1967 and established himself as a strong advocate of senior citizens rights.

Dr. Queen was the author or co-author of 11 books, including *The Family in Various Cultures* and *The City*.

He is survived by his daughter, Margaret, of San Diego, who earned a bachelor of arts degree from the University in 1950.