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 Jarek 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 exhibition 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 Rocío," 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 Rocío in southern Spain with one of the 75 religious brotherhoods that made the journey from Spanish towns.

They traveled through desert terrain, swamps and forests to join the gathering of two million people who came to see the statue of the Virgin of Rocío 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 suggests 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 School of Medicine, 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 a 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 Continued p. 4

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 influential interdisciplinary faculty the opportunity for experimental study of many kinds of market behavior.

In coming months, the Ruben 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' personal decisions.

And students will use the laboratory to study managerial economics, decision-making, 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 Courssey, 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 noteworth y 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 conducting such experiments. While experimental studies are revolutionizing the way economics is approached, the business 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 business school can create a unique niche for itself by becoming the first to apply experimental techniques to traditional fields and to blend 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 Continued p. 2

"Nearly limitless potential"
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 AIDS and cardiac disease.

Students enrolled in the Master of Health Science Program in Health Care Services (M.H.S.) will be taught both 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 the fall and spring terms on both the Hilltop and School of Medicine campuses to health care professionals 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 the division of the Faculty of Arts and Sciences. Directors of the program are Edwin B. Fisher, professor of psychology, and J.V. Santiago, professor of pediatrics and director of the 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 361-8401.

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 geophysics in 1982 and bachelor’s degrees in economics, environmental studies and geophysics 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. Gilmoun, 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.

Bryan P. Kelly, M.D., assistant professor of anesthesia, has been clinical instructor in the departments of surgery and internal medicine at both the Mayo Clinic and Washington University School of Medicine. He received his M.D. degree from the University of Virginia School of Medicine in 1979.

Michael J. Holtzman, M.D., assistant professor of medicine, was for many years a research fellow in the departments of medicine and surgery at the University of California at San Francisco. He received his M.D. degree from the University of California at San Francisco in 1980.

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 the University of Kansas City School of Dentistry and a bachelor’s degree in biology in 1977 from the same university.

M. A. McCue, M.D., assistant professor of medicine, was for many years a research fellow in the departments of medicine and surgery at the University of California at San Francisco. He received his M.D. degree from the University of California at San Francisco in 1980.
Faculty receive tenure

The following is a list of faculty who have been granted tenure or promoted to tenure with the Hiltop and Medical School campuses, effective Oct. 9, 1987.

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**Faculty of Arts and Sciences**

**Granting of tenure**

John R. Blecke, as associate professor of chemistry;

**School of Engineering and Applied Science**

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. Rowen, as associate professor of medicine; Klaus J. Stach, as associate professor of obstetrics and gynecology.

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**Notables**

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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.

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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 in men 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.
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. Birns, Ph.D., senior research scientist in physics; Joseph Klarmann, Ph.D., professor of physics; Martin H. Isler, 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 University 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, Roostown, OH 44272. Phone: (216) 525-2511.

Wong — 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 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, said Philip A. Ludbrook, M.D., a member of the School of Medicine's t-PA research team. "It was clear that our people were jubilant about the approval - not only on the research and 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 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, and is produced by 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 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 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."

Pediatric transplant reuiend

"The doctors told my parents that if I lived one year after the transplant, they'd consider that good. We had to give lectures on t-PA across the country, and we were always being asked what it would be 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 pharmacist 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."

Burton E. Sobel

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

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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 $50 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 biomedicine.

"The students selected as Olin Fellows are the best of the best," says chairman of the Olin committee Daniel Hard, 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 1989.

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 Gerry 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 Straus, 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 Feust 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 Gerry F. Cori prize in biochemistry. Her thesis project involves the determination of a protein domain responsible for specific phosphorylation of tyrososomal 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 Ibsen 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 Gerry F. Cori Prize in biochemistry. He is studying the enzyme of tristool phospho transferase, 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 in psychology from the University of Rochester in New York. His dissertation research work, being conducted in the laboratory of Maury Olson, Ph.D., professor of biology, included characterization of the tyrosine transfer RNA gene family in the yeast Saccharomyces. More recently he has developed a new system for cloning and expressing 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 biotechnology from Zhejiang University in China. He then studied neuroscience under Shih, MD., professor of neuroscience at the Brain Research Institute and was awarded a scholarship for graduate study in the United States. He is currently carrying out his dissertation research in the laboratory of Eugene Johnson, Ph.D., professor of pharmacology. He is studying the role of intracellular calcium in nerve development. He will graduate in 1989.
PERSONNEL NEWS

Successful campaign
Four-year-old Brass 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.

Medical coverage deadline set; other benefits news explained
At midnight, Dec. 31, 1987, Blue Cross-Blue Shield coverage ends for dependant, 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 increased 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 contribution 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 (COBRA) of 1986 amended the Social Security Act to prohibit large group health plans from "carving out" Medicare benefits for the disabled participants.

By 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
Challenging and permanent position in the Office of University Relations. Candidates must have a college or university degree; professional 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.
CALENDAR

LECTURES

Thursday, Dec. 3

4 p.m. Oral Examination for Ph.D. Degree, "Synthesis, Solution Structure and Reactivity of 2,4-Dimethylpentamethylethylene-Rhodium-Phosphine-Phosphorinate Complex in Solutions of dissolution of Andrew J. Donadio, graduate student in chemistry. 511 McMillen.

6:30 p.m. Public Affairs Thursday Lecture, "Zimbabwe's Lessons for South Africa's Future," Stephen Sedman, WU instructor in political science. Elliott 200 C and D.


Friday, Dec. 4

6 and 8:30 p.m. WU Association Film Travel Festival, "Mother's Day," 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 Konkel, professor, Biological Sciences, U. of Pittsburgh. 322 Rehnock.

Tuesday, Dec. 8
4 p.m. Dept. of Chemistry Seminar with M. G. Finn, professor, Department of Chemistry. 311 McMillen.

Wednesday, Dec. 9
7 p.m. Dept. of Physics Special Seminar, "How I Will Make My First Million as an Astronomer or Visual Acaulay," Arctachaesthetics and the National Calendar, Thomas Schah, 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 professor of mathematics. 199 Cupples I.

4 p.m. Dept. of Physics Colloquium, "Optical Emission From Crystaline Silicon," Dennis G. Hall, associate, professor 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. Holmes Lounge, Duncker Hall.

Thursday, Dec. 10


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

Friday, Dec. 11

PERFORMANCES

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

CALCULATE 4-6-6: Special Short: "Mindscapce."

Monday, Dec. 7
7 and 8:30 p.m. WU Filmboard Series, "You Can't Take It With You," S. Brown Hall. (Also Thurs., Dec. 6, same times, Brown.)

Wednesday, Dec. 9
7 and 9:30 p.m. WU Filmboard Series, "The Time Machine," S. Brown Hall. (Also Sat., Dec. 12, same times, and Sun., Dec. 13, at 7 p.m., Brown.)

Dance Theatre: Amy Seibert, 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, in Edison Theatre. The concert features the choreography of faculty and alumni, which will be performed by students. Tickets are $3 general public and $4 to senior citizens, faculty, staff, and students. For more information, call the Edison Theatre box office at 889-6545.

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, guitarist. 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.

"Scents and Three-Dimensional Work," Dec. 6-13, Babbly Gallery, Babbly 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. Ohio 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, "Narrages," S. Brown Hall.

Friday, Dec. 4
6 and 8:30 p.m. WU Filmboard Series, "Sweetheart," S. Brown Hall. (Also Sat., Dec. 5, same time, and Sun., Dec. 6, at 7 p.m., Brown.)

Midnight. WU Filmboard Series, "Bleak Meat." S. Brown Hall. (Also Sat., Dec. 5, 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
7 p.m. WU Women's 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 Women's Club Mini-Luncheon. Joanne Crickshank, mezzo-soprano, will sing Christmas and Christmas songs at the event in the Women's Guild. Cost is $2 for members and $3 for guests. A courtesy shuttle bus will be available from the University's northeast corner parking lot, starting at 11:30 a.m. For reservations and more info., call Ruth Druke, 721-4829, or Coreen Mustard, 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 name, title, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include your name and identification and the side of the event; also include your name and telephone number. Address items to King McIlroy, 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 clear magnetic resonance spectroscopy to examine the nature of the metabolic defect in its sequelae of dissection of Andrew J. Donadio, graduate student in chemistry. 511 McMillen.

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 Aristotle University in Thessaloniki, Greece. His research interests are in the area of myocardial metabolism and hemodynamic responses of patients with coronary artery disease during the perioperative period, specifically the effect of drug administration and other therapeutic interventions on coronary circulation and myocardial metabolism.

Stephan Bischoff, senior 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 management 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 an interest in the development 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 many 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.