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Project Zeus adds key research partner

Washington University and Ascom Timeplex have signed a three-year, multi-million dollar research agreement to collaborate on switching and signaling technology in Washington University's fast-packet switching research program.

Fast-packet switching is known in the telecommunications industry as asynchronous transfer mode (ATM). Washington University is a pioneer in this technology. Fast-packet networks can transmit voice, video, data and high-resolution images at tremendous speeds over fiber optic wire.

Ascom Timeplex, based in Woodcliff Lake, N.J., sells, services and supports networking solutions in more than 60 countries. It is the core business unit in the Enterprise Networks Division of the Ascom Group. Based in Bern, Switzerland, Ascom is a \$2.1 billion international telecommunications and service automation company.

"Washington University is extremely pleased to have Ascom Timeplex support and collaborate with our telecommunications research program," said Chancellor William H. Danforth. "Their involvement will greatly enhance our efforts to advance the telecommunications technology of the future."

"As a leader in enterprise networking, Ascom Timeplex is pleased to sponsor and participate with the technology leaders at Washington University in this unique

research and development opportunity to advance ATM switching and signaling technology," said Bruce McClure, vice president and general manager, Advanced Products Business Unit, Ascom Timeplex. "ATM and connection-oriented networking paradigms are expected to play an increasingly important role as the next generation of communications systems serving both private and public networks are developed."

The research component of the Wash-

ington University ATM network is called Project Zeus. The network switch was developed by Jonathan S. Turner, Ph.D., professor and chair of computer science. The network is installed at Washington University and two other locations in the St. Louis area. Project Zeus is the first ATM network architecture to be installed on a university campus and the only switching architecture with the inherent capability of broadcasting to millions of

different locations. Future multimedia applications of Project Zeus include the electronic transmission of medical images from a central location to others miles away, and interactive teaching and conferencing sessions, among others.

Under the agreement, Ascom Timeplex is participating in the Washington University program on several levels. It is a "Supporter" of the Washington University

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Professor authenticates Berlioz score thought destroyed by composer

French Romantic composer Hector Berlioz's first large-scale work, which he claimed to have burned, has been found in Belgium and recently authenticated by a Washington University professor and Berlioz scholar. Berlioz, who lived from 1803 to 1869, is best known for his development of orchestral music.

Hugh Macdonald, Ph.D., Avis Blewett Professor of Music at the University, authenticated the score. Macdonald is general editor of the *New Berlioz Edition*, a 25-volume collection of Berlioz's complete works published by Bärenreiter-Verlag, a German publishing company.

"I've been working with Berlioz's handwriting for many years and I have no doubts about its authenticity," Macdonald said of the manuscript.

The full-scale work in 14 movements, titled "Messe solennelle," is scored for soloists, chorus and orchestra. The work runs about 80 minutes. Berlioz composed it in 1824, when he was 20. The composer had always claimed to have burned the work after its second performance, in 1827.

To find a complete unpublished work by a major composer is an exceptional event, says Macdonald, and this new discovery sheds important light on Berlioz's work. Macdonald says the piece contains the first version of many pieces that are known from later works, including passages from the "Fantastic Symphony," the "Roman Carnival" overture, the "Requiem" and "Te Deum."

"This is the first work in which Berlioz's teachers and perhaps Berlioz himself recognized the signs of future greatness," says Macdonald about the score. "It is the work that launched his career."

Frans Moors, a Belgian school teacher, came across the work in 1991 while looking for a Mozart score in an Antwerp church.

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Washington University senior Victor Sachs, left, serves as translator for left-winger Vitali Prokhorov and two other Russian players on the St. Louis Blues hockey team.

Student interprets for hockey players from Russia

Washington University senior Victor Sachs could talk, but not for long. He had to take a pregnant Russian woman to her obstetrician for a monthly check-up.

Sachs, who grew up in Moscow, served as an interpreter for American visitors to the Soviet Union from 1986-1990. Those visitors often were American performers. Now the computer science major is helping three St. Louis Blues hockey players from Moscow adjust to life in America.

His duties include everything from giving them tours of St. Louis and ordering them pizza to introducing them to the concept of American college life.

Last year Sachs came to St. Louis to finish his college degree, after completing 3 1/2 years of study at Moscow University. His transition to American life was relatively easy, even though he had only visited the United States twice before for short periods of time. Sachs, who has absolutely no Russian accent,

grew up bilingual in Moscow. Sachs' grandparents were American communists who moved to Russia in 1925. Sachs learned English from his parents. His father grew up bilingual, learning English from his American-born parents. His mother, a native of Russia, taught English at Moscow University.

When the Blues hockey team signed three Russian players last fall, several of Sachs' friends recommended him to Blues president Jack Quinn.

The three players, Vitali Prokhorov, Vitali Karamnov and Igor Korolev, are all about Sachs' age and all have wives. Two of the couples have a young son and the third couple is expecting their first child in February. None of them speaks English.

"They have this money in their pocket, but they have no frame of reference,"

Sachs notes. "They have no idea what is cheap or expensive when it comes to renting a house or buying clothing and food."

Sachs helps them negotiate those types of transactions, though luckily, he says with a sigh of relief, his duties don't include doing contract negotiations or traveling on the road with the team.

He did help them get driver's licenses by arranging for them to take the written test in Russian. Sachs taught them to recognize street signs by their shapes.

"The other hockey players called me their baby-sitter," says Sachs with a smile. "(In the beginning) I was with them (the Russian players) 12 hours a day, helping them do everything. I drove them around because they didn't have cars, I would talk on the phone with them a lot, order

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Medical Update

Sobel receives Herrick Award for contributions to cardiology research

Burton Sobel, M.D., professor of medicine and director of the cardiology division at the School of Medicine, has received the prestigious 1992 James B. Herrick Award from the American Heart Association's (AHA) Council on Clinical Cardiology.

The Herrick Award is given annually to recognize a physician whose scientific achievements have contributed to the advancement and practice of clinical cardiology. Sobel received the award in November during the American Heart Association's annual scientific meeting in New Orleans. He was selected by the AHA council.

Sobel is recognized worldwide for his innovative research on heart function, positron tomography, enzymes and for the clinical introduction of tissue-type plasminogen activator, or t-PA, a drug used to quickly and safely dissolve blood clots that block coronary arteries and cause heart attacks. He has conducted extensive research with clot-dissolving drugs and is involved in several ongoing projects to improve their effectiveness. Early in his career, Sobel pioneered the use of the blood enzyme creatine kinase to diagnose heart attacks and to assess the extent of heart damage caused by an attack; tests for elevated levels of the enzyme are now considered the diagnostic gold standard.

He came to St. Louis from the University of California, San Diego, where he was an associate professor of medicine, director of the cardiac care unit and director of the myocardial infarction research unit. He joined the Washington University faculty as an associate professor of medicine and director of the cardiovascular division in 1973. He became a professor in 1975 and has been an adjunct professor of chemistry since 1979.

Sobel has received numerous honors, including the 1971 career development award from the National Heart and Lung Institute, the 1981 Hearst Research Foundation's International Recognition Award, the 1984 AHA Scientific Council's Distinguished Achievement Award and the 1987 American College of Cardiology Distinguished Scientist Award. In addition, he was named councilor for the International Society for Fibrinolysis and Thrombolysis, 1992-96, and has served as a councilor for the American Society for Clinical Investigation and for the American Federation for Clinical Research.

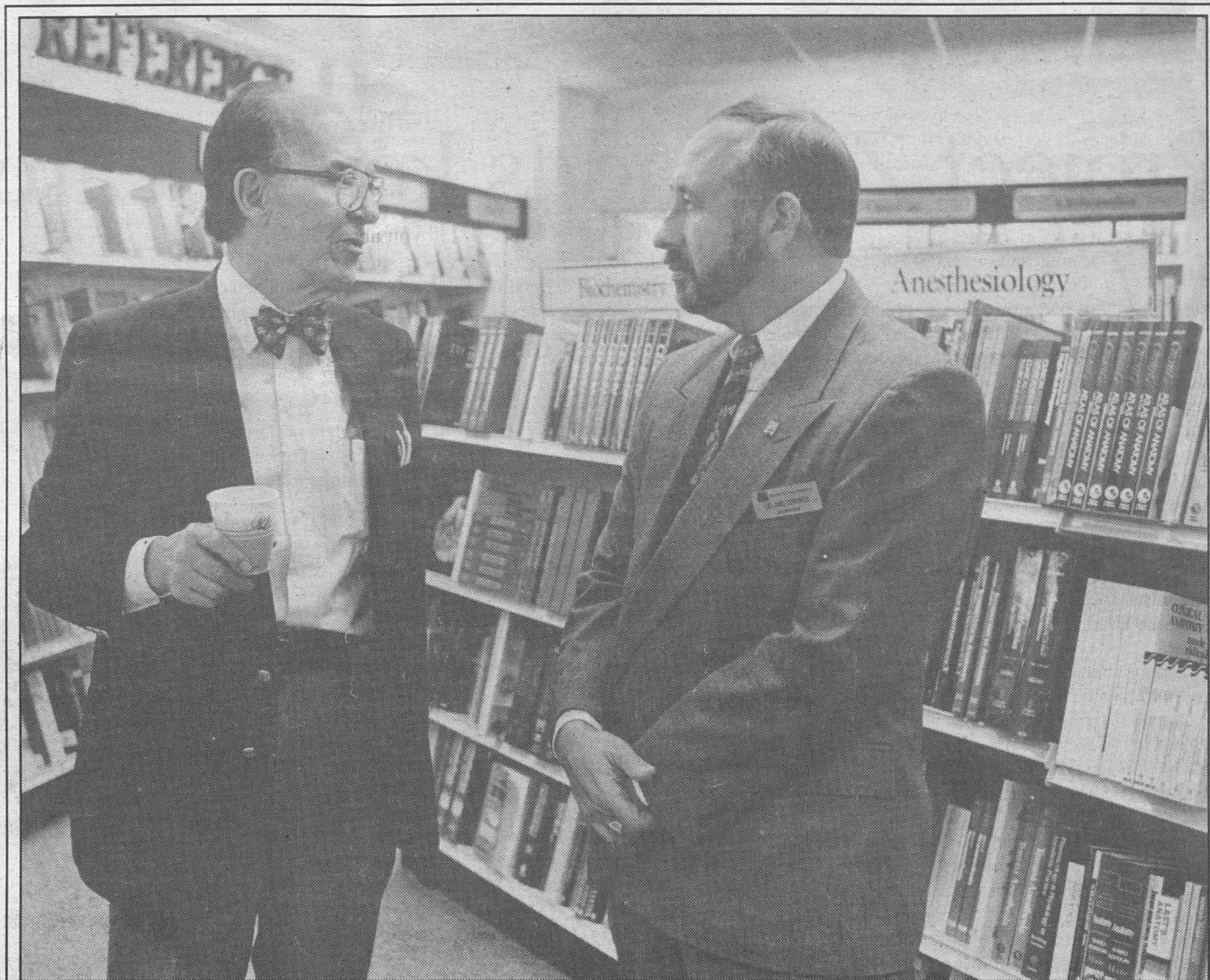
Sobel has published more than 600 scientific journal and textbook articles. He is a member of several professional societies and serves on the editorial boards of several scientific journals, including *Circulation* and the *Journal of Clinical Investigation*. He has served on more than 20 national advisory committees for the National Institutes of Health and other organizations and has served as a visiting professor or lecturer in the United States and abroad.

Researchers study heritability of schizophrenia

Researchers at the School of Medicine have received a \$400,000 grant from the National Institute of Mental Health to study the heritability of schizophrenia.

Steven O. Moldin, Ph.D., assistant professor of psychiatry, will evaluate 50 schizophrenic patients and three of their family members to study biological traits common in patients and their relatives who are not suffering from the disease. All will be tested for attention disorders.

"People with schizophrenia tend to have trouble with attention. If you ask them to follow a moving object, or perform a task that requires attention, they do poorly," Moldin says. "Their relatives, who might not have schizophrenia, also tend to have impaired attention. With this study we are trying to see how schizophrenia and attention together are inherited in the family."



Local sportswriter Bob Broeg, left, talks to Barnes and Noble representative Leland Chrisco during the grand opening of a new bookstore at the School of Medicine. Barnes and Noble Co. opened the Washington University Medical Bookstore in November on the ground floor of the Olin Residence Hall on the medical school campus. Broeg was on hand to autograph copies of his book *Redbirds: The Centennial Celebration of Cardinal Baseball*.

Latest ultrasound methods spot kidney obstructions

School of Medicine researchers have applied the latest ultrasound techniques to develop a safer method for diagnosing kidney stones and other forms of urinary tract obstruction.

Using color Doppler ultrasound and conventional X-rays, the investigators at Washington University's Mallinckrodt Institute of Radiology produced images of blood flow in the kidneys and of urine entering the bladder to assess whether urine made the journey from kidneys to bladder successfully.

The approach may help avoid the adverse drug reactions that occasionally result from the current diagnostic test of choice, said Lane Deyoe, M.D., a radiology fellow and lead investigator of the study.

Currently, physicians diagnose possible urinary tract obstructions by using a plain abdominal X-ray to look for kidney stones and an intravenous urogram (IVU) to assess urine flow. For an IVU, patients are injected with a contrast material and are given multiple abdominal X-rays. The contrast material produces an image of the path urine

takes as it leaves each kidney and travels through tubes called ureters to the bladder. If an obstruction exists, an IVU may show the contrast agent pooling up behind the blockage, said Deyoe.

The IVU is generally quite accurate and safe, Deyoe said. But in some patients, the contrast material causes adverse reactions such as nausea, vomiting, irregular heart beat and, in extremely rare cases, death. Mild to moderate reactions affect 2 percent to 8 percent of patients; severe, life-threatening reactions occur in 0.01 percent to 0.1 percent of patients, Deyoe said. In addition, the test is not ideal for pregnant women because it exposes their fetuses to radiation and to the contrast drug, he added.

Deyoe and colleagues evaluated 32 patients suspected of having a urinary tract obstruction using a plain abdominal X-ray and three ultrasound techniques. They used IVU exams as the gold standard for comparison. With a traditional ultrasound exam of the kidney, they looked for urine pooling in the kidney. They also applied a technique called pulsed Doppler to look for decreases in blood flow to the kidney, which can indicate a urinary tract blockage. Color Doppler ultrasound was used to look for "ureteral jets," the regular spurts that normally send urine into the bladder. Color Doppler, based on a principle similar to police radar, uses sound waves to measure the speed of moving materials such as blood or urine.

"With color Doppler we can actually see urine coming out of the ureter into the bladder. In somebody who is completely obstructed, we would not be able to see a jet," Deyoe said.

The ultrasound approach correctly diagnosed the 10 completely obstructed patients and all 8 patients who were completely unobstructed. Of the 14 patients with partial obstructions, 11, or 79 percent, were correctly diagnosed. There was one false-positive result in one completely obstructed patient. Overall, the tests were accurate in 28 of the 32 patients or 88 percent of the time.

"We found that the ultrasound was very

good at diagnosing these obstructions. The IVU is a good test, but this gives us an option," Deyoe said.

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 **Washington**
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Robins probes lives for answers, research

Unlike many School of Medicine researchers who gather data with test tubes and microscopes, Lee N. Robins, Ph.D., collects information by asking people questions.

On subjects from family history and arrest records to drug use and sex, Robins, an epidemiologist, has proven that people will answer some of the most personal questions. "Everyone assumed that people would not answer those kinds of questions, but those beliefs were wrong," she says.

Robins, University Professor of Social Science and director of the Program in Psychiatric Epidemiology at the School of Medicine, has spent almost 40 years talking to disaster victims, Vietnam veterans, adults who were delinquent children, and demographically selected "average" Americans. Her studies have forced her colleagues in psychiatry to rethink subjects from teen suicide to drug abuse.

"She has been the leading psychiatric epidemiologist in the country, flat out," says Leon Eisenberg, M.D., professor of psychiatry and social medicine at Harvard Medical School. "Her work shattered many of the traditional beliefs in the field when she published her first big study 30 years ago."

Her first study eventually became the book *Deviant Children Grown Up*. She launched the study in the late 1950s following a series of serendipitous events. How she came to conduct the study is a famous story in the Department of Psychiatry. Robins' husband, Eli Robins, M.D., professor emeritus and former head of psychiatry, was working with colleague Patricia O'Neal, M.D., when they uncovered a large volume of records from a historic psychiatric child guidance clinic that had opened in the 1920s. The old records were stored at Malcolm Bliss Mental Health Center, but the hospital needed more space and had decided to destroy them.

Instead, Lee Robins and O'Neal took possession, got a grant from the Foundations Fund for Research in Psychiatry and tracked down 524 patients who had been treated for psychiatric problems as children 30 years earlier. "That study provided longitudinal data for the first time ever," says Eisenberg. "They had a set of observations from the 1920s, and they went back to see how things turned out. It was enormously important work."

Many were surprised when the study showed early antisocial behavior to be the chief predictor of problems in later life. More than social class, economic status or family background, early behavior indicated which children would do well as adults and which would have problems like alcoholism, marriage difficulties or incarceration. School performance also was a powerful predictor.

The study also found that the children most likely to receive psychiatric treatment were generally "the wrong kids." Psychiatrists, Robins says, "were treating kids who were nervous and fearful. Most of those kids did fine later on even without treatment. The kids who were antisocial did not."

Robins has proposed that day-care centers serve as the laboratory where preventive methods of rearing high-risk children could be developed. "The day-care center is a natural environment for that," she says. "My hunch is that antisocial behavior is a lot like I.Q. There are probably some kids who are severely disturbed essentially from birth, but I think the majority of them are victims of difficult environments, and many of their problems could perhaps be prevented or overcome in some way."

In addition to its landmark conclusions, Robins' first study established her as a researcher who could get people to talk. Although her studies often deal with delicate subjects, she averages a 90-plus percent cooperation rate. "Embarrassing questions are embarrassing chiefly to the interviewer, not to the subject," she says.

Robins says in her deviant children study, when psychiatrists interviewed former patients they often avoided questions about sex because they feared it would interfere with the relationship between interviewer and subject. So, Robins began to use lay interviewers, which at that time was still new to psychiatry, and she hired medical students to do some interviews.

"People like to talk, but they prefer talking to strangers because there's nothing riding on it for them," Robins says. "We instruct our interviewers never to talk to anyone they know personally. People put on an act for those they care about, but they don't do it for strangers. You ask the questions, and they tell you about their lives."

Robins most enjoys asking questions, but she also likes the early stages of a study when the questions

government agencies assisted her search. "I could ask for anything, and I got it," she says. "It was the kind of power I'd never had before. When we wanted to locate men still in service, we could go to the Department of Defense and use the worldwide locator to see where they were stationed. I could get all the records that I wanted."

Robins' list included all of the U.S. Army enlisted men who left Vietnam in September 1971. In the summer of 1972, her team interviewed about 1,000 of them. They were interviewed again after the men had been home for three years. "The men were thrilled to be interviewed. They had a story to tell," Robins recalls. The results of that study helped influence thinking about the natural history of heroin addiction.

More recently, Robins has been involved in two mammoth projects. She continues to review data and follow up on subjects interviewed in the early 1980s for the Epidemiologic Catchment Area study (ECA) hoping to discover new facts about mental illness. In that study, more than 20,000 Americans were interviewed to determine the prevalence of psychiatric illness in the general population.

"As it happened, we interviewed people for the ECA study just before the flooding and dioxin problems at Times Beach (Mo.)," Robins recalls. "I worked with Dr. Elizabeth Smith, from our department, studying responses of disaster victims. Unlike previous studies, where the first contact with victims is made after a disaster has occurred, the ECA sample revealed the state of their mental health before the disaster. Then we followed up to learn whether new symptoms occurred any more often in those exposed to the disaster than in people living outside the disaster site."

Robins and Smith are now doing similar work with victims of radiation exposure. They are finding that people with prior psychiatric problems are more vulnerable to problems as a result of disasters. The primary impact seems to be an intensification of problems in those who already had them. "Others get very angry and upset, but that's not the same as being psychiatrically ill," Robins says.

Robins also is working with the World Health Organization (WHO) to translate criteria for psychiatric diagnosis into standardized interviews that can be given by lay interviewers and scored by computer. She has led an effort to develop and employ the Composite International Diagnostic Interview (CIDI), which should allow for cross-national comparisons of mental illness rates, in the same way that the ECA study projects mental illness in the U.S. population.

The CIDI has already been published in German. An English edition will soon be available, and printings in 15 other languages will follow. Norman Sartorius, M.D., Ph.D., director of the Division of Mental Health with WHO in Geneva, Switzerland, calls Robins' work a keystone to the success of his efforts to standardize diagnosis. "It's a mammoth task, but I believe we have been successful to a large extent. It is the ability of Dr. Robins to coordinate such a huge project that makes success possible," he says.

Robins has received numerous awards over the years, but her greatest satisfaction comes from knowing that her data have stood up to scrutiny from her peers. Though some of her controversial conclusions have raised some eyebrows, they have not been contradicted.

Robins enjoys going back to her old studies. "I have always been sort of dragged to new projects, feeling that I haven't quite finished the old one," she says. "I'm very pleased with what's been accomplished, but I also have a drawer full of unfinished papers and unfinished projects. I have this fantasy that someday I'm going to have time to finish them. I'm not sure it will happen, but I hope so."

— Jim Dryden



"People put on an act for those they care about, but they don't do it for strangers. You ask the questions, and they tell you about their lives."

are tested in small groups. "I really like writing questions," she says. "I like trying to be absolutely clear and being certain the meaning can't be misinterpreted." Clarity is essential because Robins relies almost exclusively on lay interviewers who have no expertise to explain questions that may be unclear.

She also likes tracking down previous study subjects. "It's like being a detective; it's really a lot of fun, particularly in the follow-up studies," Robins says. "You've seen the person years before, and you try to find them many years later."

Robins' favorite study was one she did regarding Vietnam veterans who were easily located. Several gov-

Calendar

Dec. 10–Jan. 16, 1993


Lectures

Thursday, Dec. 10

Noon. Dept. of Molecular Biology and Pharmacology seminar, "DNA Methylation in Mammalian Development," Rudolph Jaenisch, Whitehead Institute, Cambridge, Mass. Erlanger Aud., McDonnell Medical Sciences Bldg.

Noon. Genetics seminar, "Analysis of Two Mouse Developmental Loci: *Spotch* and *Bcg*," Philippe Gros, McGill U., Montreal. Room 816 McDonnell Medical Sciences Bldg.

4 p.m. Dept. of Chemistry seminar, "Novel Benzenoid Aromatics — Strained, Battered, and Bent," Michael Haley, prof., U. of California, Berkeley. Room 311 McMillen Laboratory.

4 p.m. Division of Biology and Biomedical Sciences student-organized seminar, "Development of Physical and Genetic Tools for the Analysis of Genomic Organization in the *Bordetellae*," Scott Stibitz, Center for Biologicals Evaluation and Research, Food and Drug Administration. Erlanger Aud., McDonnell Medical Sciences Bldg.

Friday, Dec. 11

9 a.m.-4:40 p.m. Dept. of Medicine presents a mini-symposium, "Frontiers in Extracellular Matrix Biology and Genetic Skin Disease," in honor of Arthur Z. Eisen, the Winifred and Emma Showman Professor of Dermatology. Erlanger Aud., McDonnell Medical Sciences Bldg. For more info., call 362-8180.

9:15 a.m. Pediatric Grand Rounds, "X-Linked Hypophosphatemia: The Most Common Heritable Form of Rickets," Michael P. Whyte, prof. of medicine, assoc. prof. of pediatrics, WU School of Medicine; director, Metabolic Research Unit, Shriners Hospital for Crippled Children. Clopton Aud., 4950 Children's Place.

10:30 a.m. Department of Pathology thesis defense, "Quantitative Isolation of Plasma Membrane and Endosomal Membranes by High Gradient Magnetic Affinity Chromatography," Dale Warnock, WU graduate student. Room 7738 Clinical Sciences Research Bldg.

Noon. Dept. of Cell Biology and Physiology seminar, "Lessons From Mitochondrial Enzyme Genetic Deficiencies," Arnold Strauss, prof., WU Dept. of Pediatrics. Room 423 McDonnell Medical Sciences Bldg.

1 p.m. School of Engineering and Applied Science seminar, "Electromagnetic Synthesis Using Parallel Computer Architectures," Barry E. Spielman, prof. and chair, WU Dept. of Electrical Engineering. Room 305 Bryan Hall.

2:30 p.m. Complex Dynamics seminar with Nicola Arcozzi, graduate student, WU Dept. of Mathematics. Room 199 Cupples I Hall.

4 p.m. Dept. of Anatomy and Neurobiology seminar, "Dilute: A Fancy Mouse Mutation That May Give Insight Into Neuronal Function," Paul Bridgman, assoc. prof., WU Dept. of Anatomy and Neurobiology. Room 928 McDonnell Medical Sciences Bldg.

Saturday, Dec. 12

9 a.m. Neural Science seminar, "The Role of Muscles in Motor Control," Carlton Hunt, prof. emeritus, WU Dept. of Cell Biology and Physiology. Erlanger Aud., McDonnell Medical Sciences Bldg.

Monday, Dec. 14

12:30 p.m. Society of Professors Emeriti luncheon/lecture, "Birth of Natural Science: Classical Greek Mathematics and Physics," Andrew Dimarogonas, William Palm Professor of Mechanical Design, WU Dept. of Mechanical Engineering. Whittemore House, 6440 Forsyth Blvd.

4 p.m. Graduate Program in Immunology seminar, "Neurotrophic Factors and How They Work," George D. Yancopoulos, vice-president, Discovery Regeneration Pharmaceuticals, Tarreytown, N.Y. Third Floor Aud., St. Louis Children's Hospital, 400 S. Kingshighway.

Tuesday, Dec. 15

12:15 p.m. Program in Physical Therapy Brown Bag Research Seminar, "Influence of Growth Factor on the Survival of Peripheral Neurons," William Snider, assoc. prof., WU Dept. of Neurology. Steven J. Rose Conference Room, third floor, East Bldg.

Wednesday, Dec. 16

8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds, "Preterm Birth Prevention 1992 and 1/2 — How Far Have We Come?" Michael Paul, asst. prof., WU Dept. of Obstetrics and Gynecology. Clopton Aud., 4950 Children's Place.

Noon. Marilyn Fixman Clinical Cancer Conference presented by Jewish Hospital Cancer Committee, "Advances in Bone Tumor Imaging and Treatments," William Reinus, director, Section of Bone Radiology and asst. clinical prof., Jewish Hospital; Kurt Merkel, director, Section of Orthopedic Oncology and asst. prof., Jewish Hospital. Brown Room, Jewish Hospital.

4 p.m. Dept. of Biochemistry and Molecular Biophysics seminar, "Solvation Forces in Allosteric Regulation," Adrian Parsegian, National Institutes of Health, Dept. of Health and Human Services, Bethesda, Md. Cori Aud., 660 S. Euclid Ave.

5 p.m. Division of Cardiology seminar, "The Rhythm of the Heart From the Cellular and Sub-cellular Perspective. Part 2: The Diseased Heart," Peter Corr, prof. of pharmacology, WU departments of medicine and molecular biology and pharmacology; Jeffrey Saffitz, assoc. prof., WU departments of medicine and pathology. Room 601A, School of Medicine Library.

Thursday, Dec. 17

Noon. Dept. of Cell Biology and Physiology seminar, "Entering S Phase: Initiation of Eukaryotic DNA Replication," Joachim Li, prof., Dept. of Biochemistry and Biophysics, U. of California, San Francisco. Room 423 McDonnell Medical Sciences Bldg.

Friday, Dec. 18

9:15 a.m. Pediatric Grand Rounds, "Poverty, Technology and Infant Mortality: Science and Politics," Paul Wise, asst. prof. of pediatrics; director, Institute for Reproductive and Child Health, Harvard Medical School; asst. prof., Harvard School of Public Health. Clopton Aud., 4950 Children's Place.

Noon. Dept. of Cell Biology and Physiology seminar, "Characterization of a Novel Macrophage Metalloelastase," Steven Shapiro, asst. prof., Dept. of Medicine; Respiratory and Critical Care Division, Jewish Hospital. Room 423 McDonnell Medical Sciences Bldg.

Friday, Jan. 8

6 p.m. WU Association Travel Lecture Series, "Ontario and Quebec — Wild and Wonderful" by John Wilson who has conducted seminars in wildlife studies, photography and cinematography (also shown at 8:30 p.m.). Graham Chapel. Cost: \$4.50. For more info., call 935-5212.



Performances

Friday, Jan. 15

8 p.m. Edison Theatre "OVATIONS!" Series presents the Turtle Island String Quartet (also Jan. 16, same time). Edison Theatre. Cost: \$20 for the general public; \$15 for WU faculty, staff and senior adults; and \$10 for students. For info. and reservations, call 935-6543.



Music

Saturday, Dec. 12

8 p.m. WU Opera presents "Mozart Scenes III" directed by Jolly Stewart. Karl Umrath Hall Lounge.

Sunday, Dec. 13

1 p.m. Dept. of Music presents a piano student recital performed by Kathi Kurtzman. Steinberg Hall Aud.

Tuesday, Dec. 15

6 p.m. Dept. of Music Three String Quartet concert. Steinberg Hall Aud.

8 p.m. Dept. of Music Holiday Brass concert directed by Roger Kaza, Dan Presgrave and Philip Rowland, with the Central Presbyterian Chamber Chorus and solo by Susan Slaughter, principal trumpet, St. Louis Symphony Orchestra. Special guest appearance by Bob Richards, KSDK Channel 5 meteorologist. Graham Chapel. Cost: \$10 for adults and \$7 for students in advance; \$12 for adults and \$9 for students at the door. All proceeds go toward scholarships for the International Women's Brass Conference in May. For more info., call 966-8671.

8 p.m. Dept. of Music presents "A Beethoven's Birthday" concert with the Geburtstag String Quartet. Steinberg Hall Aud.



Exhibitions

December Graduates Exhibition. Through Dec. 18. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4643.

"Midwest Modern: St. Louis Architecture by Harris Armstrong and Samuel A. Marx." Through Dec. 11. Givens Hall, first floor. Hours: 9 a.m.-5 p.m. weekdays. For more info., call 935-6200.

School of Fine Arts and Gallery of Art Faculty Show. Through Jan. 3. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.

"Works of Graphic Satire." Through Feb. 19. Olin Library, Special Collections, Level 5. Hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5495.

"Selections From the Gift of Mr. and Mrs. Edwin Grossman." Through Jan. 29. Olin Library, Special Collections, Level 5. Hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5495.

"Unpathed Waters, Undreamed Shores: The World of Renaissance Medical Discovery." Through Jan. 2. Glaser Gallery, School of Medicine Library, seventh floor, 660 S. Euclid Ave. Hours: 8 a.m.-10 p.m. weekdays; 1-6 p.m. weekends. For more info., call 362-4239.

"Washington University Art Collections — 19th- and 20th-century European and American Artists." Through May. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.

"Goddesses and Queens." Ancient coin exhibition opening: Jan. 15. Exhibit continues through July 3. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.



Miscellany

Thursday, Dec. 10

8 a.m.-4:30 p.m. The Greater St. Louis Healthcare Alliance presents "Quality Measurement: A Challenge for the 1990s," a one-day seminar on measuring the quality of health care facilities, featuring a faculty of national experts. Adam's Mark Hotel, 4th and Chestnut. Cost: \$40. Registration forms are available by calling 362-6832.

Friday, Dec. 11

Noon. The Woman's Club of WU mini-luncheon with guest speaker Suzanne Marshall on "The Evolution of a Quiltmaker." Women's Bldg. Lounge. Cost: \$5 for members and guests. Reservation deadline is Dec. 8. For more info., call Annette Kimelman at 991-1261 or Jan Kardos at 763-0523.

Saturday, Dec. 12

6:30 p.m. The Baha'i Student Association of WU potluck dinner, "Explore Our World: China and Thailand." At 8 p.m., there will be a China and Thailand slide presentation. Stix International House, 6470 Forsyth Blvd. For more info., call 863-5065.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Marie Doss at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-8533.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-8533.

Consortium gives seniors head start on job search

High unemployment and a weak economy have made job-hunting a scary event for graduating seniors. But, some 75 Washington University seniors will receive a head start on their job search with the Selective Liberal Arts Consortium. A range of profit and non-profit organizations hold interviews, providing crucial exposure for students looking for employment. Depending on the companies' needs, most of the interviews are for jobs after graduation.

The consortium will take place from Jan. 4-11 in five cities — Boston, Chicago, New York City, San Francisco and Washington, D.C. It lasts for two days in New York and one day in each of the other cities. Students are responsible for travel expenses.

All interviews take place in central locations in each city, making the interviewing process easier for students and employers. At each location, usually a hotel or convention center, there are waiting areas where students who have interviews later in the day can sit. Thirty minutes before their interviews, students move to on-deck areas, and then into the interviewing rooms.

The consortium first began six years ago. Washington University began participating in the event five years ago, under the guidance of Marvin Reed, former director of the Career Center. Alfreda Brown, the current director of the Career Center, now organizes the University's role in the consortium. "The consortium encourages major companies in metropolitan areas to interview liberal arts students from prestigious colleges throughout the country," she said.

"Many liberal arts colleges are located in remote areas and it is difficult for the companies to travel to them. The consortium makes it easier for both the recruiters and the students to connect," she added.

Brown said the consortium is the largest of its kind in the country and colleges from across the United States participate. "There are only two universities that participate — Washington University and Washington and Lee.

"Our main reason for participating in the consortium is to assist liberal arts students with their job search in locations outside of the St. Louis area. We

know that many students are looking for jobs in their home cities after graduation," Brown said. "The consortium provides an opportunity for students to research various organizations and learn about the type of entry-level positions they offer," she added.

In addition to Washington University and Washington and Lee, colleges that participate in the consortium are: Bryn Mawr, Carleton, Dickinson, Franklin and Marshall, Grinnell, Haverford, Kenyon, Oberlin, Swarthmore and Vassar.

Because of the recession, Brown said, many students feel uncertain about their futures — a situation that has forced them to explore opportunities like the consortium. "It motivates seniors to look at their options earlier, because they must have their resumes prepared and submitted by October," said Brown. "Thus, more than 89 seniors have completed their resumes. Also most seniors who are participating are going through interview workshops and learning how to network." Many will make direct contact with other employers in the various cities and arrange additional interviews independent of the consortium.

The Career Center plays a large role in helping students prepare for the consortium. The center posts company lists and job descriptions with locations and requirements. There are many jobs to choose from, including positions in accounting firms, consulting firms, medical and scientific research, government and non-profit organizations, and banking and financial institutions.

Students select the cities and companies based on their interests. They are required to submit two copies of their resume to the center for each organization they select. They also must register with the center, attend an orientation meeting and meet with a counselor prior to signing up for interviews.

The center must go through the resumes, sorting them by city and organization, to be entered in the computer before mailing them to city directors, who arrange the interview schedules. Carol Hogan, associate director at the Career Center, coordinated the scheduling for the San Francisco Recruiting Day. Company representatives then review the resumes and select students and alternates.

Nearly 118 employers will participate in the consortium this year — an increase over last year's 77 companies. However, Brown said the recession has forced some companies to reduce travel funds for recruitment purposes. "Because of the relationships we've developed, some of the company representatives call or notify the office of available positions throughout the year," she said.

The end result is that students learn skills they can use to survive during a weak economy, noted Brown. Another benefit, said Brown, is the company-student interaction. "Companies in the past have been impressed with the students at the consortium. Because of this, they are open to meeting with other students from Washington University. We are building relationships between companies and the students that benefit both."



Turtle Island String Quartet (from left, David Balakrishnan, Darol Anger, Katrina Wreede and Mark Summer) will perform at Edison Theatre Jan. 15 and 16.

Marriage of traditions

String quartet melds many styles

The Turtle Island String Quartet, an ensemble that combines jazz, blues, classical and folk traditions, will help Edison Theatre celebrate its 20th anniversary season with performances at 8 p.m. Jan. 15 and 16.

The performances are presented by Edison's "OVATIONS!" series. Turtle Island also will present a special performance 2 p.m. Jan. 16, as part of Edison's "ovations! for young people" series. The quartet will encourage audience participation by asking such questions as "What is the difference between composed music and improvisation?" and "How is a string quartet like a baseball team?" This concert will combine popular American music, such as jazz and folk, with informal discussion.

"By melding country, folk, rock, the classics and jazz, the iconoclastic combo has revolutionized the venerated art of the string quartet," according to a recent People magazine article.

Turtle Island String Quartet was founded in 1985 by violinists Darol Anger and David Balakrishnan. The quartet is completed by violist Katrina Wreede and cellist Mark Summer. The name of the group comes from a Native American phrase for North America, a place where people of different nationalities make up a single country. Similarly, the group has sought to combine a variety of music into a new style. The ensemble even has coined a new term, "American vernacular," to describe their new musical creation.

The quartet has released numerous recordings through Windham Hill Records.

Their second album, "Metropolis," rose to the Top 20 in jazz charts in 1989. Turtle Island's acceptance in the jazz world is indicated by its recognition as "outstanding jazz string quartet" — a newly created category in the JazzTimes magazine readers poll.

Balakrishnan says this recognition is indicative of changes in the music world. "You're starting to see classical musicians and jazz musicians really feeling like they share a common ground. That's what Turtle Island is about, the marriage of the two great traditions, and other traditions as well — bluegrass, folk, world music and rock."

Tickets to the evening "OVATIONS!" performances are \$20 for the general public; \$15 for senior citizens and Washington University faculty and staff; and \$10 for students.

Tickets to the "ovations! for young people" performance are \$7.

For more information, call 935-6543.

Auditions scheduled

The Washington University Wind Ensemble will hold auditions for second semester from 4:30-6 p.m. Jan. 12 at the First Congregational Church at Wydown and University Lane. The wind ensemble has openings now for trombones, bass clarinet and euphonium, but anyone interested should schedule an audition. To schedule an audition, call 935-5581.

Sports

Men's Basketball

Last Week: Washington 66, Whittier 53; Beloit 76, Washington 73

This Week: Maryville University, 7:30 p.m. Tuesday, Dec. 8, St. Louis; University of Missouri-St. Louis, 7:30 p.m. Saturday, Dec. 12, St. Louis.

Current Record: 3-4

Despite a game-high 27 points from senior forward Charlie Borsheim, La Crosse, Wis., the Bears were dealt a 76-73 loss to 13th-ranked Beloit College in the championship game of the Ninth Annual Lopata Classic. Using a 19-4 run, the Buccaneers built a 15-point lead midway through the first half. The Bears, however, countered with a 14-3 run to end the half, and trailed 36-32 at halftime. Washington University cut the lead to two early in the second half, but could get no closer the rest of the contest.

Borsheim, who led the Bears with 18 points in their semifinal victory over Whittier College, earned all-tourney honors for the second consecutive week. Also named to the Lopata all-tournament team was freshman guard Gene Nolan, Chicago, Ill., who scored 14 points versus Whittier and 10 against Beloit.

Women's Basketball

Last Week: Central (Iowa) 65, Washington 57; Washington 80, Knox 42

This Week: Fontbonne College, 5:30 p.m. Tuesday, Dec. 8, St. Louis; University of Missouri-St. Louis, 5:30 p.m. Saturday, Dec. 12, St. Louis.

Current Record: 6-1

Unable to take advantage of early opportunities, the Bears were slowed by a sputtering offense and fell to Central College 65-57 on Friday in Pella, Iowa. The loss was the Bears' first of the year after five convincing victories. The Red and Green rebounded the next night in Galesburg, Ill., to rout Knox College by an 80-42 count.

The Nashville Network of junior point guard Sarah Goldman, Nashville, Tenn., and freshman forward Dana Bryant, Franklin, Tenn., accounted for over half of the Bears' points against Central. Goldman pumped in 16 points, while Bryant came off the bench to register a career-high 15 points. Against Knox, all 13 players in uniform dented the scoring column. Game-best honors went to sophomore forward Jennifer Hendricks, Omaha, Neb., who garnered a career-high 11 points.

The Bears bring first-semester play to a close this week, meeting crosstown rivals Fontbonne College and the University of Missouri-St. Louis on the road. After a four-week hiatus, the Bears will return to the hardwood on Jan. 7.

Men's and Women's Swimming/Diving

Last Week: Men: Placed third out of eight teams at the DePauw/Wabash Invitational; Women: Placed third out of seven teams at the DePauw/Wabash Invitational.

This Week: Idle.

Current Record: Men: 4-2; Women: 4-1

The men's and women's swimming and diving teams parlayed a two-week taper into solid third-place finishes at last week's DePauw/Wabash Invitational. The men's 394.5 points put them behind Wabash (959.5) and DePauw (582), but ahead of four other schools. The women netted 559 points to trail Wooster (702.5) and DePauw (612), but catapult them ahead of three others. Highlighting the meet were a pair of varsity records, one each for the men and the women. On the women's side, senior Jenny Schulenberg, Red Wing, Minn., set a new 100-meter freestyle standard with a time of 55.66 seconds. For the men, freshman Robert Powers, Shreveport, La., topped the Washington University record with a 4:24.48 showing in the 400-meter individual medley.

Computer game provides economics lesson to youths

Kindling a fire for learning in the minds of young St. Louisans is the goal of a voluntary educational program that recently lured about 20 eighth graders to the John M. Olin School of Business for an economics lesson.

Before the day was over, each student would grapple with the "prisoners' dilemma" — a fairly sophisticated concept in economics made a bit more palatable with the help of a computer game. Players would see firsthand how their own decision processes are shaped by advanced economic principles.

The exercise is part of a developmental program for area youths known as ACEIT. The St. Louis-based program is funded and coordinated by local alumni of INROADS, a national group that offers educational programs to minority high school students. Since 1986, ACEIT's voluntary Saturday programs have attracted more than 600 students and many of their teachers.

Olin became involved with ACEIT several years ago when it was asked to offer sessions on basic computer skills. The business school expanded its offer this year to include a taste of "game theory" economics in its Reuben C. Taylor Computer Laboratory. The facility is used for experimental economics, a field of study that uses controlled laboratory conditions to investigate individual behavior in the marketplace.

"It's really amazing how quickly the game engages students in developing competitive strategies," says Ronald R. King, Ph.D., an Olin associate professor of accounting who uses the computer lab in his research. King developed the game as a tool for getting students interested in learning more about economic principles.

The term "prisoners' dilemma" derives from an analogy economists use to compare the forces guiding the interaction of marketplace competitors and those influencing two criminal suspects who are being pressured to confess to a joint crime.

The prisoners' dilemma is that neither knows what strategy his or her partner in crime will pursue. Kept apart and unable to compare notes, each suspect is offered a lighter sentence if a confession helps convict the partner. If neither confesses, both cut the risk of a lengthy sentence. While each is tempted by the offer of a light sentence, both know a dual confession could be disastrous.

The game, in essence, puts students in the prisoners' shoes, forcing them via a computer link to repeatedly make the confession decision. As each "prisoner" tries to minimize jail time, students begin to see how self-interested strategies can prevent people from cooperating for their own mutual benefit.

"Participants must decide repeatedly whether to stand tight or tattle," King says. "It forces students to answer the same sort of questions that businesses face every day. What is that other person going to do and how should I react?"

The computer game is designed to drive home a key lesson in economics: imperfect knowledge among competitors in the marketplace often prevents players from making choices that would allow each to gain maximum benefit.

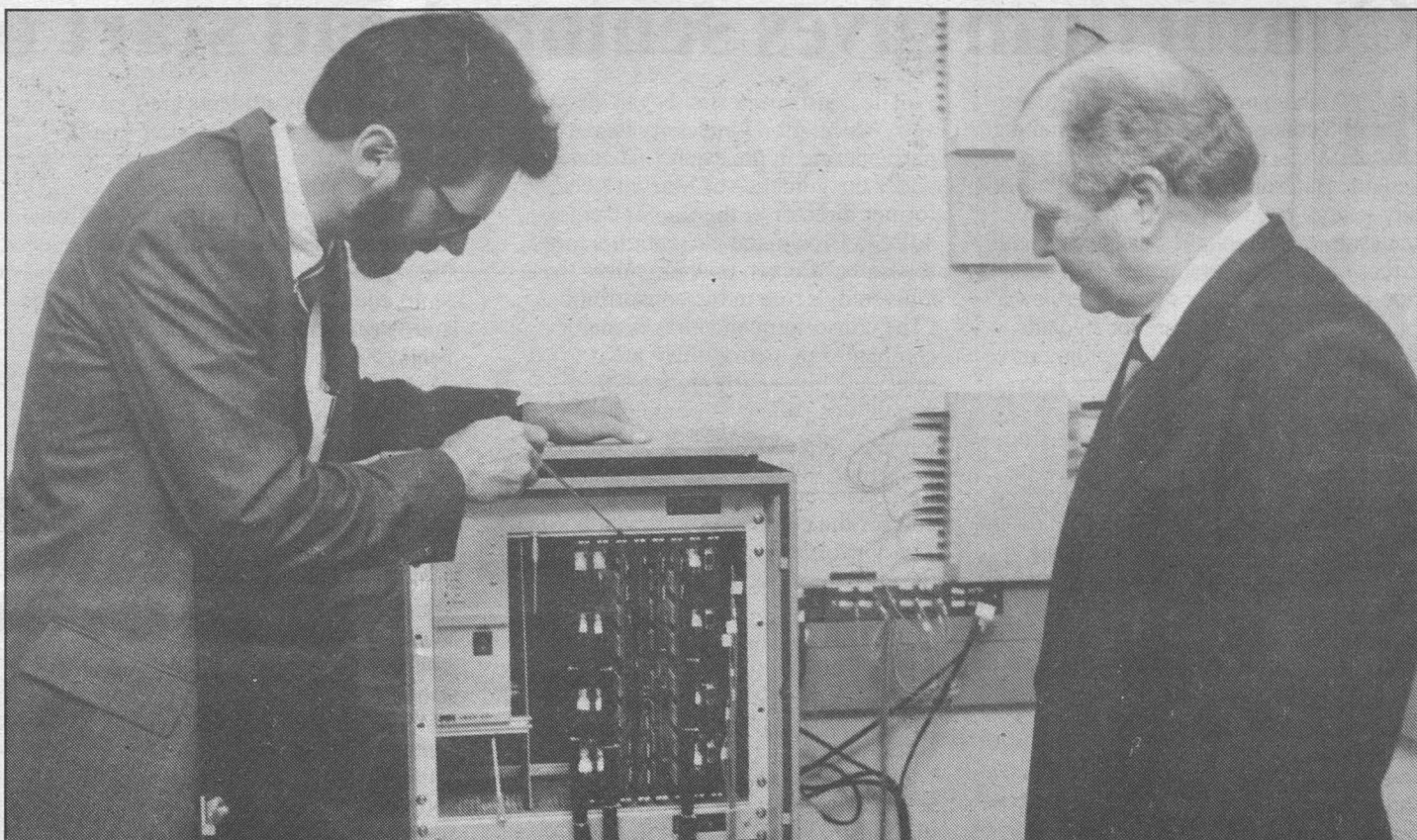
"What's good for me alone may not be good for both of us," King says.

Berlioz — from page 1

Not knowing much about Berlioz, Moors read his autobiography, only to learn that this work was said to have been destroyed. Moors contacted the Berlioz publishers Bärenreiter-Verlag, who contacted Macdonald. Macdonald flew directly to Belgium to authenticate the work.

Apparently, says Macdonald, Berlioz had given the autographed manuscript to Belgian violinist Antoine Bessem. Bessem then gave it or left it to the church in Antwerp where he had been a choirboy.

Macdonald is editing the score for publication next year as part of the Berlioz series. The publication will coincide with performances in Paris and Antwerp and a recording by Philips Records, tentatively scheduled for October 1993.



Jonathan S. Turner, Ph.D., professor and chair of computer science, explains the Project Zeus switch to William Y. O'Connor, president of Ascom Timeplex, and others at a recent demonstration. The demonstration followed the signing of a multi-million dollar research partnership agreement between the University and Ascom Timeplex, a worldwide networking leader.

Turner named a top 10 communications visionary

Jonathan S. Turner, professor and chair of computer science, has been named one of the "Top 10 Visionaries" in the data networking field by Communications Week, the Manhasset, N.Y., weekly publication that is a bellwether of the communications industry. The article ran in the Oct. 26, 1992, issue of Communications Week.

Turner and nine others were nominated and selected by a vote of the magazine's staff. The professionals cited represent corporate, vendor, consulting and academic communities. They were honored for "the mark that they've left in the networking industry — and for where their influence will take us in the future." They are, in alphabetical order: Rino Bergonzi of United Parcel Service; Jack Blumenstein of Ardis; Jeff Case of SNMP Research Inc.; William Gates of Microsoft Corp.; Coyne Gibson of Convex Computer Corp.; Sheldon Laube of Price Waterhouse; Jeff Marshall of Bear, Stearns & Co. Inc.; Marshall Rose of Dover Beach Consulting Inc.; Mark Teflian of Covia Technologies; and Turner.

In an accompanying article highlighting Turner's career, first at AT&T Bell Laboratories Inc. and then at Washington University, Communications Week notes: "For nearly 10 years, Jonathan Turner has been at the forefront of the ATM revolution as a technologist and an advocate. He theorized that electronics could rapidly switch fixed-length packets known as cells. That theory has evolved into the reality of ATM, a switching protocol for public and private networks. ATM ... can handle huge volumes of voice, data, image and video traffic at multimegabit speeds. It is becoming an ideal platform for bandwidth-intensive uses and increasingly rich applications."

Turner designed the architecture for the Project Zeus ATM switch. He is cited for developing high-speed packet systems with the capability of distributing a data signal from one sender to many receivers, a key ATM feature and one of the pioneering strengths of the Washington University ATM program. Turner predicts that within a year about 50 computer terminals at Washington University will be involved with Project Zeus, and ultimately at least half of the thousands of campus computers will be connected to the ATM system and capable of multimedia conferencing and transmitting multimedia documents.

Turner came to Washington University in 1983 from AT&T Bell Laboratories Inc. In 1988, he created the Applied Research Laboratory, which has been involved in transferring ATM research to industry. Turner was named chair of the Department of Computer Science in 1991.

Agreement strengthens Project Zeus — from page 1

Advanced Networks Group's (ANG) Industrial Sponsorship Program. As a supporter of ANG, which is directed by Turner, Ascom Timeplex will have full access to all of ANG's research efforts. In addition, Ascom Timeplex is an "Industrial Sponsor," the Zeus Program's highest level of sponsorship. Project Zeus, first demonstrated publicly in 1991, will be used in a large number of research applications across academic disciplines on the Washington campus by 1996. Applications for

Project Zeus are being developed in collaboration with the Washington University Applied Research Laboratory. Jerome R. Cox, D.Sc., is director of the laboratory.

Ascom Timeplex will further develop Washington University research results through its own projects, applying signaling and network management concepts for ATM systems, as well as developing methods for its customers to make the transition from existing technologies to ATM.

Sachs helps Russian players adjust to American life — from page 1

them a taxi or a pizza. I had no life for the first couple of months. I missed every (Kappa Sigma fraternity) chapter meeting. It was really hard with school starting, too. Luckily, because I was doing an internship this semester that started a little later, the timing worked out."

Sachs is interning at Biomerieux Vitek as a computer data base analyst. When he's not interning, Sachs is on campus, often participating in Kappa Sigma activities. He occasionally invites the players to campus events.

"American college life is totally foreign to people outside the states," says Sachs. "Especially fraternities — why would a bunch of guys want to pay money to join a club and live together?"

But Sachs says the players really enjoy the campus life they've seen. The most recent event they attended was a freshman rush party that included a game of floor hockey. All three happily participated in that game, much to everyone's enjoyment, says Sachs. The Blues supplied 150 team calendars for the event.

The friendship also gives Sachs an opportunity to speak Russian. The Russians teased him at first, saying he spoke with an American accent, says Sachs.

Spending time with the new Blues players also was a way for Sachs to catch up on news from home. His parents still live in Moscow.

"They told me a lot of stuff that is going on, stuff that's not in the news," acknowledged Sachs. "It's almost impossible to live on a government salary now. But as long as there is money, you can get food."

Everything Sachs knew about Washington University he learned from KSD radio personalities. In 1988 Sachs was interpreter and tour guide to several station employees during a visit to Russia. The group broadcast live from Moscow to St. Louis. He became good friends with JC Corcoran, Joe "Mama" Mason, Scott Strong and John McCrae. Ray Hartmann, publisher of the Riverfront Times, accompanied KSD as a guest commentator.

When Sachs thought about coming to the United States to finish his education, his friends at KSD recommended Washington University.

And speaking of friends, it doesn't look like the Russian hockey players will be on their own any time soon. Although they are taking English lessons with

Mikhail Palatnik, lecturer in Russian, Sachs says the players only really know what they've overheard in the locker room — most of which, he notes, is unprintable.

"I think I'll always be hearing from them," Sachs says. After finishing his bachelor's degree, Sachs plans to pursue a master's of business administration/juris doctorate program in the United States.

— Debby Aronson

University receives PRIDE Leadership Award

The St. Louis construction industry's Productivity and Responsibility Increase Development and Employment (PRIDE) organization presented its PRIDE Leadership Award to Chancellor William H. Danforth. The award recognizes Washington University's role as a major construction user employing AFL-CIO construction craftspeople and contractors. The award also honors the University's commitment to PRIDE's founding principles, which include dedication to high-quality construction.

News Analysis

News analysis contains excerpts from the For Expert Comment service. The service, which provides timely faculty comments to media across the country, is distributed by the Office of University Communications.

When college kids come home, tensions mount

Karen Levin Coburn, associate dean for student development, is the co-author of Letting Go: A Parent's Guide to Today's College Experience, (1988), now in its second edition. Just before the holidays, she leads a "Going Home" workshop for students. Coburn and upperclass students talk with first-year students about what to expect when they go home for the first time.

The first visit home can be an intense, stressful time, says Karen Levin Coburn. Parents often have preconceived ideas about how the family will spend the holidays, while students are anxious to try out their newfound independence. "Often a student who seems to have matured at college regresses at home," says Coburn. "It is threatening to be back at home, in a place where they had been children. Students change. They may try out new ideas, new ways of dressing that are disconcerting to parents. They may do a lot of testing," she says.

Coburn says because of the recent elections and America's recession, politics and money may become dominant themes during the student's first visit home. Parents may find their children newly politicized and anxious to get into political discussions. Coburn says that parents shouldn't view these discussions, which can be threatening, as a rejection. Instead, she says, "Parents should sit back and engage their children in dialogue. They should look at how the student's mindset works. Parents should enjoy these discussions rather than use them as an opportunity to put down different beliefs they see as threatening to the family."

Money, Coburn notes, is often more of a taboo subject for families than sex. But the recession, coupled with a student's lack of budgeting skills, may spur discussions of the topic. If money is tight, for whatever reason, Coburn suggests an honest discussion about finances. Parents should discuss the student's budget, how much the student is earning and where the student may be spending too much. "Students may come home and announce they spent over their budget," says Coburn. "First-year students may have a hard time managing money, just like managing time is hard the first year."

Clark, Webb win Moot Court competition

Darrell W. Clark and James R. Webb, third-year law students, won this year's Wiley Rutledge Moot Court Competition at the School of Law. The arguing area was the Fair Use Act. Judging the competition were: the Honorable Clifford Scott Green, Federal District Court, Philadelphia; the Honorable Theodore McMillian, 8th U.S. Court of Appeals; and Richard J. Lazarus, J.D., professor of law at Washington.

Other winners were: runners-up Stacey L. Stater and Susan E. Bindler, third-year students, who also received the Golden Quill for best brief; and Matthew W. Homann, third-year student, who won the Golden Gavel for top oralist in preliminary rounds. The Final Round High Oralist honor also went to Webb.

For The Record

For The Record contains news about a wide variety of faculty and staff scholarly and professional activities.

Of note

The Herzog August Bibliothek in Wolfenbüttel, one of Germany's principal research libraries, presented a Gaststipendium grant to **Darrell M. Berg**, Ph.D., visiting associate professor of music. Beginning in April 1993, Berg will spend four months in the library researching the Sentimental trend in 18th-century German music. ...

Leonard Berg, M.D., professor of neurology and director of the Alzheimer's Disease Research Center, received the Annual Honoree Award from the Alzheimer's Association's Rita Hayworth Gala recently held in Chicago. Berg was honored for his contributions as a member and now chair of the association's medical and scientific advisory board. Princess Yasmin Aga Khan, Hayworth's daughter, presented the award to Berg. Hayworth died of Alzheimer's disease in 1987. ...

The Mathematical Sciences Research Institute in Berkeley, Calif., awarded a research professorship for fall 1993 to **Quo-Shin Chi**, Ph.D., assistant professor of mathematics. During his stay at the institute, Chi will conduct research on differential geometry and attend seminars and workshops. Each year the institute, which is funded by the National Science Foundation, awards professorships to young mathematicians studying all aspects of mathematics. ...

Iain A. Fraser, associate professor, and **Rod Henmi**, affiliate assistant professor, both of the School of Architecture, received a grant from the Graham Foundation for Advanced Studies in the Fine Arts to support their forthcoming book titled *The Architecture of Drawing*. The book, a study of the effects of drawing on the design process, will be published in spring 1993. ...

The Federal Emergency Management Agency (FEMA) awarded a \$275,000 grant to **David F. Gillespie**, Ph.D., professor of social work, to assess the effectiveness of FEMA's Earthquake Hazard Reduction Program. As part of the grant, Gillespie will research and report on the program in 21 key states. Gillespie also completed a research project titled "Interorganizational Relations for Disaster Preparedness." The project, funded with a \$164,000 grant from the National Science Foundation, identified how strong relationships among grassroots organizations can improve a community's disaster preparedness. ...

Two medical school faculty members received prestigious awards. The American Society of Nephrology presented the Young Investigator Award to **Stephen L. Gluck**, M.D., associate professor of medicine and assistant professor of cell biology and physiology. He was cited for his work describing the molecular structure and activity of the kidney H⁺ ATPase. Gluck received the award during the society's annual meeting in Baltimore, Md. **Steven B. Miller**, M.D., assistant professor of medicine, received the Young Investigator Award from the Central Society for Clinical Research and the Merck Sharp and Dohme Award for excellence in nephrology research from the Midwest section of the American Federation for Clinical Research. The awards recognized Miller's contributions in the field of kidney growth factors. He received the awards during the groups' annual meetings. ...

The Mortar Board Teacher of the Month award for November was presented to **Robert W. Sussman**, Ph.D., professor of anthropology. Mortar Board presents the awards, which are based on student recommendations, to recognize excellence and enthusiasm in teaching. Sussman was cited for his "generosity, accessibility to students and continual efforts to bring energy and life into the classroom."

Speaking of

David Felix, Ph.D., professor emeritus of economics, was the principal discussant on the privatization panel during the XVII International Congress of the Latin American

Studies Association held in Los Angeles. He also lectured on his paper titled "Latin America's Debt Crisis: Have the Hardships Been Necessary?" at the University of California, Riverside, and at the University of California, Berkeley. ...

During the Middle East Studies Association's annual meeting held in Portland, Ore., **Peter Heath**, Ph.D., associate professor of Arabic language and literature and director of the Center for the Study of Islamic Societies and Civilizations, presented a paper on "Rumi's Use of the Concept of Imagination (khayāl) in his *Mathnavi*" and on "Acculturation as Process Between Americans and Arabs." He also has been named to the editorial board of *Al-Arabiyya*, the journal of the American Association of Teachers of Arabic. ...

Jean S. Moog, associate professor of education in the Department of Speech and Hearing at the Central Institute for the Deaf (CID) and principal of the CID school for hearing-impaired children, presented two papers at the First European Symposium on Pediatric Cochlear Implantation held at the University of Nottingham in England. The papers were titled "Speech Perception Training Activities for Children With Cochlear Implants" and "The CID Cochlear Implant Study: A Progress Report." Moog co-authored the papers with **Ann E. Geers**, Ph.D., associate professor of psychology in the Department of Speech and Hearing and CID clinics director. ...

During the Central Slavic Conference held in St. Charles, Mo., **William M. Sale**, Ph.D., professor of comparative literature and classics, spoke on the "Tale of Orosac in Avdo Mededovic's *Wedding of Meho, Son of Smail*." **Max J. Okenfuss**, Ph.D., associate professor of history, served as conference director. ...

During the meeting of the Midwest Association of Latin American Studies held at Southern Illinois University at Edwardsville, **Richard J. Walter**, Ph.D., professor of history and chair of the second major in international studies, presented a paper on "The Historical Roots of Urban Environmental Problems in Latin America: The Cases of Buenos Aires and Santiago." ...

Murray L. Weidenbaum, Ph.D., Edward Mallinckrodt Distinguished University Professor and director of the Center for the Study of American Business, gave a presentation on "Reducing the High Cost of Government Regulation" as part of a lecture series held at McKendree College in Lebanon, Ill. He also gave a presentation titled "Defense Reductions in the United States in the 1990s" during the Conference on Arms Reduction and Economic Development in the Post Cold War Era held at the United Nations University in Tokyo.

On assignment

Charles L. Leven, Ph.D., professor emeritus of economics, spent a week at Erasmus University in Rotterdam, the Netherlands, as an adviser to officials from the European

International Comparative Urban Research program. He advised the officials on their research initiatives. While visiting the university, he also presented a seminar for the economic faculty on "The American Urban Dynamic and Theories of Urban Change." ...

James Nicholson, artist in residence in performing arts, served on an Illinois Arts Council panel that awards playwriting and screenwriting fellowships. His play, "AND HOWL AT THE MOON," premiered at Florida State University.

To press

Lorrie F. Ackerman, a graduate student in engineering and policy, published a column titled "After Accolade: Time for New Laws?" in the November 1992 issue of the IEEE (Institute of Electrical and Electronics Engineers) Software journal. The column, which details laws concerning reverse engineering of computer software, was based on a report she wrote as part of the 1992 Washington Internships for Students of Engineering program. ...

The December issue of Harper's magazine contains an article about Malcolm X by **Gerald Early**, Ph.D., director of African and Afro-American Studies, co-director of the University's American Culture Studies Institute and professor of English. His article is titled "Their Malcolm, My Problem. On the Abuses of Afrocentrism and Black Anger." Early also discussed Malcolm X during a radio interview aired on National Public Radio's "Fresh Air" program. Early additionally was appointed to American Quarterly's board of advisers. The quarterly is the journal of the American Studies Association. His three-year term begins in 1993. ...

Shanti K. Khinduka, Ph.D., dean of the George Warren Brown School of Social Work, co-edited a book titled *Profiles in International Social Work* published by the National Association of Social Workers Press. The book examines the international social work field and its growing implications in an increasingly interdependent global community. ...

Bernard D. Reams, J.D., Ph.D., professor of law and director of the law library, recently co-authored two books titled *Disability Law in the United States: A Legislative History of the Americans With Disabilities Act of 1990 and Electronic Contracting Law 1992-1993*. The books are published by William S. Hein & Co. and Clark-Boardman-Callaghan, respectively.

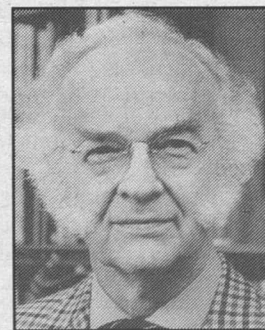
Guidelines for submitting copy:

Send your full name, complete title, department, phone number, and highest-earned degree, along with a typed description of your noteworthy activity to For The Record, Campus Box 1070. Items must not exceed 75 words. For more information, call 935-5293.

Campus Authors

The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus and at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5500 (Hilltop Campus) or 362-3240 (Medical School).

In *Suicide in Alcoholism*, **George E. Murphy**, M.D., professor emeritus of psychiatry, explores, through a series of case histories, the process by which 50 alcoholics individually arrived at the final act of suicide. He found that each victim was unique, yet had much in common with the others. The common factors, which are readily observable, distinguish alcoholic suicides from living alcoholics and from non-alcoholics suffering from a major depressive disorder as well. The book allows the reader to recognize both alcoholism and the accumulating factors that signify when alcoholics become at risk for suicide. The book also highlights interventions most likely to be lifesaving for suicidal alcoholics. *Suicide in Alcoholism* is designed to be accessible to the college-level layperson while offering the professional specialist new information and a fresh look at old beliefs. (Oxford University Press)



Opportunities & personnel news

Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990.

Rare Books Catalog Librarian

930056. *Olin Library*. Requirements: MLS degree from ALA-accredited library school, master's degree in the humanities desirable; academic library or equivalent cataloging training or experience with AACR2 and LC classification; rare books cataloging training or experience; archival and manuscript cataloging experience using AMC format; ability to work with non-English languages and non-Roman alphabets; working knowledge of OCLC and NOTIS or other automated systems; reference training or user service experience; supervisory experience; knowledge of preservation procedures; knowledge of national and international trends in bibliographic description desirable. Resume and three letters of recommendation required.

Department Secretary, Part-time

930073. *Center for Computer Systems Design*. Requirements: Some college required; typing 50 wpm with accuracy. Duties: answer telephone, greet callers, maintain calendars and schedules, file maintenance, make travel arrangements, type routine correspondence, classwork; assist in fiscal activities of center — coordinate journal search via Washington University medical school library, assist in annual report preparation, assist in coordination of research progress reviews, coordinate center technical report distribution; assist in departmental accounting procedures; maintain office supplies. Clerical testing and three letters of recommendation required.

Library Assistant, Part-time

930081. *Olin Library*. Requirements: Two years of college or equivalent experience; library or audiovisual experience desirable; typing 35 wpm with accuracy; ability to work well with others and to respond to the public in a helpful and courteous manner; some mechanical aptitude; a willingness to learn library automation, microcomputers and audiovisual equipment is a necessity; a flexible attitude and ability to work under some pressure; willingness to work occasional weekends if necessary; ability to use an IBM PC; experience with WordPerfect and Lotus desirable. Clerical testing and three letters of recommendation required.

Department Secretary

930083. *Alumni and Development Programs*. Requirements: Associate's degree or equivalent; specialized secretarial or business training; three years general office experience; typing 50 wpm with accuracy; word processing experience or willing to learn; good command of English; must be alert and well spoken; can deal with multiple priorities with minimum supervision; work and relate well with people. Clerical testing and three letters of recommendation required.

Programmer

930091. *Olin Library*. Requirements: Bachelor's degree in computer science; demonstrated experience in coding and debugging C programs; working knowledge of the UNIX environment including TCP/IP networking; knowledge of object-oriented programming technologies such as C++; knowledge of PC programming environments (DOS and WINDOWS); experience implementing client-server applications. Resume and three letters of recommendation required.

Academic Secretary

930100. *Political Science*. Requirements: High school graduate with a minimum of two years of college, bachelor's degree preferred; excellent interpersonal skills, grammar, ability to work on many projects simultaneously; must be able to organize, set priorities and follow up on details; typing 40 wpm with accuracy. Clerical testing and three letters of recommendation required.

Cashier/Sales Clerk

930102. *Campus Stores*. Requirements: High school graduate; basic math skills and ability to operate a 10-key adding machine; one year of electronic register experience preferred; previous selling experience desired; good physical condition for recurrent lifting of moderately heavy items; excellent attendance record; must be able to work evenings and Saturdays; typing 20 wpm with accuracy. Clerical testing and three letters of recommendation required.

Assistant Director of Career Services

930103. *School of Law*. Requirements: Bachelor's degree, master's degree preferred; strong interpersonal, verbal and written communication and management skills; ability to maintain excellent relationships with staff, students and legal employers; experience in legal or educational setting desirable. Resume and three letters of recommendation required.

Audiovisual Coordinator

930104. *School of Law*. Requirements: High school graduate, some college preferred; strong organizational skills; experience in the maintenance and repair of audiovisual equipment is preferred; experience with personal computers is preferred; the ability to work flexible hours, including evenings. Clerical testing and three letters of recommendation required.

Assistant to the Director

930107. *Development Services*. Requirements: Associate's degree, bachelor's degree preferred; must have experience with PC, preferably IBM; experience with word processing packages such as WordPerfect or Display Write; typing 50 wpm with accuracy. Clerical testing and three letters of recommendation required.

Accounting Assistant

930109. *School of Business*. Requirements: High school graduate; ability to handle numerous tasks, make responsible decisions and meet deadlines; ability to interface with administration, faculty, students and staff on all accounting related matters; must be detail-oriented and have the ability to work without supervision; must have problem-solving skills; must be proficient in the operations of office equipment; FIS and FOCUS training preferred; prefer minimum of one year working with university systems, policy and procedures; high clerical aptitude, typing 30 wpm with accuracy and completion of six hours of college accounting or equivalent work experience. Clerical testing and three letters of recommendation required.

Input-Output Operator, Part-time

930111. *Computer Operations*. Requirements: High school graduate. Duties: Enter jobs into system; mount tapes; operate and service printers; mount and align special forms; distribute computer output; perform housecleaning tasks on CPUs; distribute microfilm; interpret console JCL messages; interact with staff and users; IPL OS/MVS/HASP systems; make computer resource decisions; interact with senior management; initiate vendor service calls as directed; maintain performance/problem records. Application and three letters of recommendation required.

Director of Annual Giving Programs, Alumni and Development Programs

Washington University is seeking a talented and ambitious individual to serve as director of Annual Giving Programs. This is a challenging and permanent position in the Department of Alumni and Development Programs. Preferred qualifications include a minimum of a bachelor's degree and at least five years experience in alumni/development, public relations, marketing, or related work preferably in a non-profit organization. Preference will be given to candidates who have successfully planned and implemented annual fund and major donor programs at private institutions, whose resumes indicate that they have skills directing volunteers, and who have been promoted or have assumed more responsibility at their current institutions. Excellent writing, speaking, organizational, and interpersonal skills are essential. Salary is competitive. Application deadline is Dec. 30, 1992. Send resume and three letters of recommendation to: David F. Jones, Assistant Vice Chancellor and Director, Schools Alumni and Development Programs, Campus Box 1210, Washington University, One Brookings Drive, St. Louis, Mo. 63130.

Regional Director of Development and Associate Director of Major Gifts and Capital Projects, Alumni and Development Programs

Washington University is seeking a skilled and experienced individual to serve as regional director of development and associate director of major gifts and capital projects. This is a challenging and permanent position in the Office of Alumni and Development Programs, working primarily with medical major prospects. Qualifications include a bachelor's degree and four or more years experience in development, preferably working with major gifts and capital campaigns at a university, college, or similar institution. Knowledge of personal solicitation required and gift planning experience helpful. Travel required. Salary is dependent upon qualifications and experience. Interviews will begin immediately and continue until the position is filled. Send resumes to: James D. Thompson, Senior Director of Major Gifts and Capital Projects, Alumni and Development Programs, Campus Box 1228, Washington University, One Brookings Drive, St. Louis, Mo. 63130.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request may contact the Human Resources Department of the medical school at 362-4920. External candidates may call 362-7195 for information regarding application procedures or submit a resume to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo., 63110.

RN Staff Nurse, Part-time

930363. Hours: 20 hours a week Monday, Wednesday, Thursday and Friday — hours vary from 9 a.m. to 3 p.m. and 9 a.m. to 4 p.m. Requirements: Must be a graduate of an accredited school of nursing with current state license. Prefer candidate with two years experience in an outpatient office with high-risk patients.

Medical Research Technologist

930366. Requirements: Bachelor's degree. Applicant should have experience in manual DNA sequencing and standard recombinant DNA techniques; ability to work independently and use good judgment; responsible for intermediate-level decisions based on data gathered.

Electrician II

930368. Requirements: Three years experience in the electrical field or two years in a technical school; electrical wiring experience. Prefer individual with National Electrical Code Certification.

Energy Management Technician

930379, 930380. (Two jobs available) Requirements: Prefer two years of college; must be able to work different shifts; computer knowledge; prefer individual with knowledge of CRT and word processing; familiarity with electronic and HVAC would be very helpful.

Special Project Assistant

930382. Requirements: Associate's degree, prefer bachelor's degree; applicant should have good communication and analytical skills; ability to work independently; data processing, CRT and PC skills.

Professional Rater I, Full-time

930384. Hours: Some weekend work involved. Requirements: Bachelor's degree or three years work experience in a related field; prefer an individual with research interview experience; must have the ability to pay close attention to detail.

Medical Research Technician

930385. Requirements: Associate's degree, bachelor's degree preferred; prefer individual with experience in Lab/Animal techniques; experience with tissue assay helpful. Will perform animal surgeries.

Statistical Data Analyst

930389. Requirements: Bachelor's degree, master's degree preferred; prefer individual with two to three years of research experience in math or biostatistics; experience required in statistical programming.

Data Assistant, Part-time

930392. Hours: 20 hours a week, variable work week with some evenings and weekends possible. Requirements: High school graduate/equivalent, bachelor's degree preferred; typing 40 wpm; must have good interpersonal and communication skills and the ability to work independently. Individual hired will track and locate research subjects for follow-up interviews.

Medical Secretary I

930396. Requirements: High school graduate/equivalent; two years secretarial/medical transcription experience preferred; excellent telephone skills; experience on word processor preferred; typing 60 wpm; must have thorough knowledge of medical terminology.

100 Neediest Cases challenge issued

The Office of Human Resources issues a challenge to all departments on the Hilltop Campus, Medical Campus and at the Administrative Service Center to participate in the 100 Neediest Cases project sponsored by the St. Louis Post-Dispatch.

The Office of Human Resources will pool the amount normally spent for departmental gift-giving and other festivities to make the departmental contribution to the 100 Neediest Cases. Departments interested in meeting this challenge should inform Gloria W. White, vice chancellor for human resources, at 935-5990 or by Box 1184. Checks or money orders are made payable to 100 Neediest Cases. Participating departments will be acknowledged through the University's Community Service Honor Roll.