Trustee’s $3 million gift will aid neurological surgery department

Shi Hui Huang, M.D., an internationally prominent neurosurgeon and University-trained neurosurgeon, and University trustee, has pledged $3 million to the Washington University School of Medicine, Chairwoman William H. Danforth has announced. According to Danforth, three separate endowments will be established for the Department of Neurological Surgery over a three-year period. The first endowment, “Thanks for caring for our children,” and “Everyday our daughter looks forward to coming to school” make it no surprise the day-care center in 1981 as a service for hospital workers to change their schedules weekly. Also, the day-care center provides “after-hours care” from 6 to 8 p.m. for a small fee. “We have to be flexible,” says Kleinberg. “We know a nurse can’t walk out of the delivery room. A researcher can’t leave in the middle of an important experiment.” Kleinberg said she hopes to arrange an hourly drop-in service for extended families. The center has a simple philosophy: teach through play and above all, give lots of love. Like any good day-care center, the atmosphere is rambunctious. Children spill out of classrooms at the end of the day, clutching works of art. The walls are lined with letters from satisfied parents. Messages like “We are very appreciative of Dr. Hui Huang, also trained in neurosurgery at Washington University. Loutie had a distinguished career as an associate of the University of New York (SUNY) Upstate Medical Center and served as president of the Society of University Neursurgeons and the Neurosurgical Society of America. Growing by leaps and bounds

Day-care center plans expansion

A tree made of paper at the Child Development Center says it all. Hanging above the employee time clock, the tree is decorated with cards and letters from satisfied parents. Messages like “The Bears were awesome,” Dannevik added: “They didn’t let a ball hit the floor. They had the complete package of power, speed, strength and ball handling.” Washington University is also supremely well coached. They dominated the division and they deserve all the accolades coming to them.” Then Dannevik, perhaps the only person qualified to make such a judgment, bestowed his highest compliment. “I think the Washington U. team that played tonight easily could have beaten our UCSD championship teams one-on-one. Sometimes it’s hard to compare 1984 teams to 1992 teams, but very honestly I’ll say that (Washington head coach) Teri Clemens’ kids are as good as I’ve seen.” The NCAA Division III All-America selection committee agreed, choosing five Bears with the highest of recognition. In addition, Washington’s sixth starter earned all-conference honors. Leading the All-America list was senior middle blocker Lisa Becker, who was crowned NCAA Division III co-player of the year. Joining Becker on the 12-player first-team All-America list were junior middle blocker Amy Sullivan and sophomore outside hitter Amy Albers. Included on the 12-player second team were junior setter Leslie Callins and sophomore outside hitter Anne Quertee. Senior outside hitter Michelle Kirwan was granted second-team all-Uni-

In this Issue

Medical Update: Researchers develop blood tests to determine whether heart attack patients will need invasive treatment Washington People: Jerome R. Cox, Sc.D., the Harold B. and Adelaide G. Wege Professor of Computer Science In the news: Student Union president wants to enhance communication between students, faculty and staff
Blood tests developed to improve early heart attack treatment

Researchers at the School of Medicine have developed reliable blood tests that give physicians a quicker, safer way to detect who will benefit from clot-dissolving drugs. Of the nearly 500,000 patients who will need invasive treatment to open blocked coronary arteries each year, only about half will recover quickly and without complications. The tests will require additional invasive measures to restore flow to the heart. Then we will be able to administer invasive therapy within the time window that's available to mini-

Training for the tests that we have de-
volved is rare and does not occur while the patient is still being treated with a thrombolytic agent to identify patients who are likely to experience a re-

The tests are noninvasive and can be performed at a snapshot look at blood flow, they can miss such changes, Abendschein explained.

In addition, the researchers are evaluat-
ing other markers that may help determine which patients are likely to experience a re-

The technique involves using a catheter to inject a special dye that shows up in the time window that's available to mini-

In the second study, the researchers measured PAI-1 in 69 people — 34 with NIDDM, 21 with type 2 NIDDM and 14 non-diabetic lean volunteers. They found that obese and diabetic people had abnor-

Researchers at the School of Medicine have confirmed past studies. The researchers have found that even though such PAI-1 levels actually altered the abil-

In the first study, the researchers measured PAI-1 in 69 people — 34 with NIDDM, 21 with type 2 NIDDM and 14 non-diabetic lean volunteers. They found that obese and diabetic people had abnor-

Several other researchers have confirmed past studies. The researchers have found that even though such PAI-1 levels actually altered the abil-

The tests yield results within 30

91 percent were correctly identified by

Eighty-one percent of the same group were

Abendschein explained. The team now is to avoid emergency angiography because of the patient's medical condition.

The idea of having a noninvasive test that would help to identify the patients that have a high need for catheterization is very reasonable and responsive to the system as it is cur-

The study is part of the national multi-

clinical trial. It was con-

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Cox moves communications into the fast lane

The computer is the paragon of servitude: it works at maximum efficiency and minimum cost, using logic alone to blitz through tasks a human cannot or ought not handle. "There's a culture takes that Copernicus Friday image a step further, with talking starships, Robocops and android companions, which somehow seem to have manufactured themselves. In this universe, people teach computers how to heal the sick, span distances, educate minds and scan the universe for extraterrestrials — people like Jerry Cox.

Jerome R. Cox, Sc.D., Harold B. and Adelaide W. Gelpe Professor of Computer Science and previous chair of the Department of Computer Science, began his career studying acoustics, specifically the effects of industrial noise. Then, an invitation in the early 1960s from the late Hallowell Davis, then director of research at the Central Institute for the Deaf and research professor of otolaryngology at the Washington University School of Medicine, channeled his talents into the emerging field of computer science. "He changed my life twice," Cox says. "First, by asking me to come to St. Louis, and second by asking a question: 'How can you measure the evoked auditory response in infants who might have a hearing impairment?'

Searching for the answer at the Central Institute for the Deaf opened up the possibilities of a career in computer science to Cox, and he found that the challenge of a new technology and the personal rewards of medicine were an irresistible combination. "I decided computers were a lot more fun than acoustics," he says. "They were something people wanted to do; industrial noise control was something they had to do, but didn't want to."

Cox left his mark on a number of groundbreaking projects. In the 1960s, work in radiation treatment planning paved the way for systems in operation worldwide. Studies by Cox's Biomedical Computer Laboratory have been a member of peer review and the effectiveness of patient treatments. He has authored or co-authored several computer science textbooks, and his research has been cited in over 100 publications.

Cox moved communications into the fast lane when he formed an institute in the mid-1970s, he formed Project Zeus. "It was the time for the computer to become a communications device," Cox says. "It's enormously flexible. Its design anticipates the emerging digital applications and technologies." The project was an attempt to create a network that could link any two people in the world.

"Dramatic changes in communication are upon us. If the economic, social and regulatory problems can be solved, I am confident that the technology will not be the obstacle," Cox says.

In addition to Project Zeus, much of the credit for the network's speed and expandability is due to the decision to base it on fiber optics. "Some people still believe the best method of data transmission is via satellite in geosynchronous or low earth orbit," Cox says. "There is a lot of money being bet, though, that it will be fiber. The bandwidth is virtually inexhaustible, whereas there are limits for satellites, and the cost of fiber is very small. It's private and allows two-way communication readily. With a satellite, that's awkward at best."

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Bruce Waxman, now retired from the National Institutes of Health, oversees the government funding of many of Cox's projects, beginning in the 1960s. He has had the chance to look over several large ATM systems and thinks that fiber optics will not only prevail, but that Project Zeus will go on to set industry standards. There are maybe a dozen efforts like Project Zeus, Waxman says, "but it's my opinion that none of the others are in the same league. There's nothing quite as comprehensive and it's the most outstandingly engineered system. For one thing, while other systems can do one or two tasks, Project Zeus can do several. Second, it's designed to be a network of interconnected fiber-optics network, and third, it's enormously flexible. Its design anticipates the emerging digital applications and technologies."

Cox plans to adapt Project Zeus to serve in other campus applications, including Washington University's work on the human genome mapping project. The Department of Earth and Planetary Science's satellite image processing, and research in architecture and urban planning. As Project Zeus begins to bear fruit, Cox expects his corporate partners to take the technology and run with it, producing and marketing devices and networks to improve home entertainment, business communication and data transmission.

Down the road, Cox envisions computers and networks that provide faster and more intuitive links between physicians and their computer servants. In his ideal scenario, he says, "The M.D. carries a personal computer that translates for him or her and communicates with equipment throughout the hospital and the office. It would be a tablet and pen, not a keyboard, and would be able to call up images and have voice recognition capability. In the office, it would link with thin display screens that hang on the wall."

What's standing in the way, he believes, is the human being's unwillingness to work for long periods entering copious amounts of data without a prompt and satisfying reward. Technology, per se, is not the problem."

"The cost of computing is coming down, seemingly inexorably, year after year," Cox says. "If there's a fundamental limit to that downward trend, it's far enough out that it's not clear whether it is a true limit or not."

"Dramatic changes in communication are upon us. If the economic, social and regulatory problems can be solved, I am confident that the technology will not be the obstacle."

— Maura J. Mackowski
Lectures

Thursday, Dec. 3


4 p.m. Center for the Study of Islamic Sciences and Civilizations presents "Mysticism and Messianic Movements in Islamic Spain, 750-1250" by Alister J. Rice, senior researcher, Institute for Oriental Studies, St. Petersburg, and 1992/93 Rockefeller Fellow, Six International House.

4 p.m. Dept. of Biology Seminar, "Sleep and Hibernation in Arctic Ground Squirrels," Bruce Fiore, prof., U. of Alaska. Room 322 Rebbstock Hall.

4 p.m. Dept. of Chemistry Seminar, "Coupled Loop Movement: The Reaction Coordinate of the "Ping Pong" Enzyme," Richard E. Barber, former prof., Albert Einstein College of Medicine, N.Y.


Friday, Dec. 4
9:15 a.m. Pediatric Grand Rounds, "The Energetics of Breathing in Children with Upper Respiratory Infection," J. Peter Forst, assoc. prof., dept. of pediatrics and anesthesiology, WU School of Medicine; director, Division of Critical Care; director, Pediatric Intensive Care Unit, St. Louis Children's Hospital. Clapp Aud., 4590 Children's Place.

Noon. Dept. of Cell Biology and Physiology Seminar, "Studies of Capping Protein in Skeletal Muscle and Epithelial Cells," Dorothy Schacter, research assoc. prof., WU Dept. of Cell Biology and Physiology. Room 423 McDonnell Medical Sciences Bldg.

2:30 p.m. Complex Dynamics Seminar with Sig Fru, graduate student, WU Dept. of Mathematics. Room 199 Cupples I Hall.

4 p.m. Dept. of Anatomy and Neurobiology Seminar, "The Preference for Estrogen in Mammals and the How and Why of That," Dorothy A. Badger, assoc. prof., WU Dept. of Anatomy and Neurobiology. Room 928 McDonnell Medical Sciences Bldg.


Wednesday, Dec. 6


Thursday, Dec. 7
4 p.m. Dept. of Anatomy and Neurobiology Seminar, "Lessons From Mitochondrial Dynamics," Piotr Kasznicki, Canada. Room 311 McMillan Laboratory.

Saturday, Dec. 5
9 a.m. Neuroscience Seminar, "Multiple Cortical Areas Mediate Visual, M., M., M. Proctor, assoc. prof., WU Dept. of Neurology, Erlanger Aud., McDonnell Medical Sciences Bldg.

Monday, Dec. 7
4 p.m. Dept. of Biology Seminar, "Dorsal Ventral Signaling Processes in Drosophila Oogenesis," Trudi Schupbach, prof., Dept. of Molecular Biology, Princeton U. Room 322 Rebbstock Hall.

4 p.m. Dept. of Chemistry Seminar with "Understanding the Evolutional Role of dithiolsuperoxide dismutase," Jeffrey K. McKeever, prof., Weizmann Institute, Rehovot, Israel.

4 p.m. Graduate Program in Immunology Seminar, "Tyrosine Phosphorylation and T Cell Activation," Lawrence E. Samelson, senior investigator, Cell Biology and Medicine Branch, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, Md. Third Floor Aud., St. Louis Children's Hospital, St. Louis, Mo.

4 p.m. Social Thought and Analysis Colloquium, "Child Behavior and Adult Psychopathology," Lee ROHRS, Univ. Professor of Social Science and professor of social science in proctorship, WU School of Medicine. Room 149 McMillan Hall.

6:30 p.m. Biophysics Evening Seminar, "Traumatic Approaches to the Protein Folding Problem," Carl Frieden, prof., WU Dept. of Biology and Molecular Biophysics. Room 311 McMillan Laboratory.


Tuesday, Dec. 8
4 p.m. Dept. of Anthropology Colloquium, "From Taung and the Evolutionary Role of Homo habilis and Homo erectus: Africa," Jeffrey K. McKeever, prof., Weizmann Institute, Rehovot, Israel.

4 p.m. Dept. of Chemistry Seminar, "Analyzing an Enzymatic Cascade and Logical Inhibitor Design," Ben Brenorent, Albert Einstein College of Medicine, N.Y. Room 311 McMillan Laboratory.

5 p.m. Pediatric Research Seminar, "The 1991 Glutamate Receptors," Steve Rotterman, assoc. prof., WU Dept. of Pediatrics. Third Floor Aud., St. Louis Children's Hospital, 400 S. Kingshighway, St. Louis.

Wednesday, Dec. 9


4 p.m. Dept. of Chemistry Seminar, "Novel Benzodiazepine Antagonists - Strained, Bent, and Bonded," Michael Haley, prof. of chemistry, Berkeley. Room 311 McMillan Laboratory.

Friday, Dec. 11
9 a.m.-4:40 p.m. Dept. of Medicine presents a mini-conference, "Frontiers in Extracellular Matrix Biology and Genetic Skin Disease," in honor of Arthur E. Eisen, the Weinfeld 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 Hypophosphatemic Rickets. The Most Common Heritable Form of Rickets," Michael P. Whyte, prof. of medicine, assoc. prof. of pediatrics, WU Dept. of Medicine; director, Medical Genetics Clinic, Shriners Hospital for Crippled Children, Clapp Aud., 4590 Children's Place.

10:30 a.m. Department of Pathology Thesis Defense, "Detection of Membrane and Endosomal Membranes by High Gradient Magnetic Affinity Chromatography," Darrel Workow, WU graduate student. Room 7738 Clinical Sciences Research Bldg.


1 p.m. School of Engineering and Applied Science Colloquium, "Insulin Signaling in Epidermal Cells Utilizing Parallel Computer Architectures," Barry R. Genberg, prof. and chair, WU Dept. of Electrical Engineering. Room 305 Bryhan Hall.

Saturday, Dec. 12
4 p.m. Complex Dynamics Seminar with Nicolas Licozzi, graduate student, WU Dept. of Mathematics. Room 199 Cupples I Hall.


Saturday, Dec. 12

Performance

Thursday, Dec. 3
8 p.m. Performing Arts Department presents "Imitation: An Evening of One Acts" (also Dec. 4 and 5, same time, and Dec. 6, 2 p.m. and 7 p.m.). Drama Studio, Room 208 Mallinckrodt Center. Cost: $25 for the general public; $3 for faculty, staff, senior adults and students. For more info., call 393-4795.

Music

Thursday, Dec. 3
8 p.m. Dept. of Music Vocal Jazz Ensemble concert directed by Fred Bohlender, Steinberg Hall Aud.

Saturday, Dec. 5
1-4 p.m. Dept. of Music piano master class for junior high and high school students, Janie Reding, international concert pianist. Steinberg Hall Aud.

Saturday, Dec. 12
In keeping a copy may purchase them at the concert for $.75. The holiday punch, and party cards will follow in the Women's Building Lounge. Admission to the Dec. 6 concert is $5 for the general public; $3 for faculty and staff, and $1 for students.
Work of artistic genius. The world’s longest-running software company. It’s not about the tools you use. It’s about the way you think about the tools you use. The Big Picture. Click here to learn more.
The halls are alive with the sound of music. More and more undergraduates at Washington University are taking advantage of the programs offered by the Department of Music. Enrollments in applied music programs have doubled in the past six years to about 300 students. John Stewart, associate professor of music and head of the voice program, says, "We have only three music graduate students in the chamber choir, and the rest are from year to year — math, physics, engineering, medical and law school, to name a few." The symphony orchestra has expanded from 50 to 80 from 50 since director Dan P. Pers Gregorina took over in 1979. The orchestra also directs the wind ensemble, which he has led since 1973. Pers Gregorina invites amateur and professional musicians from the community to fill both groups, he says. Several professional musicians from the community play in the chamber choir, and the rest are from year to year — math, physics, engineering, medical and law school, to name a few. The chamber choir, for example, has grown from less than 20 to more than 50 participants.

Another area of dramatic growth is the opera program. Opera courses have been taught in the past. However, with the arrival of Stewart and his wife, Jolly, nearly thirty years ago, the opera program has expanded. Jolly Stewart serves as director of Washington University opera and voice instructor. The program now features several public performances per year. Those events include scenes from Mozart operas at 8 p.m. Dec. 12 in Karl Umrath Lounge, and the full double bill in Sheldon Concert Hall at 3648 Washington Ave., at 8 p.m. on March 26 and 27.

Kurtzman credits the growth of applied music to the active recruiting efforts of his department and the admissions office. There has also been a conscious effort to improve the departmental ensembles, to encourage students in applied music by offering scholarships for instruction and to recruit more students with music background. "We have growing interest in applied music and in lessons to be given on rehearsal and teaching space, particularly space for rehearsing large ensembles," he says. Kurtzman says that large ensembles can't fit into practice modules and, in some cases, can't even fit into the Tietjems Rehearsal Hall. Student voices have different acoustic needs, and they must not be met in the smaller practice spaces. Kurtzman solved this problem in two ways. The department rents space in the First Congregational Church at Wydown and University for large ensemble rehearsals and one music class. And last summer, two new voice studios were constructed in Tietjems Rehearsal Hall in space created by removing six practice modules. The practice modules were moved to the dorms. There are now a total of 15 practice spaces in the South Forty and in Millbrook Apartments. The Stewarts and Christine Armstead, lecturer in music, helped design the new studios, suggesting necessary room dimensions, type of wood floor, ventilation and room acoustics.

The new voice studios also have two new pianos on loan from Staufen's Music House. In an agreement begun last year, Staufen's lends the music department more than a dozen pianos, on which students and teachers rehearse, practice, and perform during the school year. Staufen's will offer some of those pianos in a special sale open to members of the University community and the general public from noon to 9 p.m. Dec. 11, 10 a.m. to 9 p.m. Dec. 12 and 11 a.m. to 6 p.m. Dec. 13. The sale will take place at the old Staufen's store, on the corner of Jackson and Forsyth in Clayton. This year, 13 other pianos are on loan from Staufen's and are located in various places, mostly within the music department complex. A seven-foot-long grand piano is in Steinberg Hall auditorium and a nine-foot-long concert grand is in Graham Chapel.

The arrangement with Staufen's will continue indefinitely and is a great boon for the department, many of the professors note.
Consumers beware: fraud increases during holidays

Michael M. Greenfield, J.D., professor of law, is a consumer law expert and author of numerous books and articles, including Consumer Transactions (1983) and Consumer Law (1992). Here he explains how consumers can avoid becoming victims of credit card fraud during the holiday season.

Because consumer transactions are a common occurrence of the holiday season, there are more opportunities for people who are willing to commit fraud to take advantage of shoppers during the buying mood. Says Michael M. Greenfield, "credit card fraud is a common occurrence this time of year, but there are steps consumers can take to minimize the risk of theft, he says. First, consumers should never give credit card information over the phone to a stranger who calls them. The only time it is appropriate to give such information is when the consumer places the call and, then, only if the consumer is confident the merchant is reputable, says Greenfield. He also suggests consumers destroy any cards that are attached to a canceled receipt. The consumer's credit card number can be lifted easily from these slips, he says. Under federal law, consumers face a liability of up to $50 for charges made illegally if they do not check their statements. Still, Greenfield says, however, those who quickly report their cards missing or stolen may not even be held liable for that amount, he says.

Another guideline to follow is to be levy of any offer made over the phone, says Greenfield. Often such deals are a way to extract credit card information from consumers eager to get a "great deal!"

Greenfield suggests consumers who are victims of a telephone transaction contact their local Better Business Bureau or the state consumer protection agency, and phone the caller at a later time, he notes. Any charges that may be made illegally will be removed if the consumer contacts their bank or credit card company.


given by governmental and educational institutions in honor of the late President General de Gaulle. The insignia was presented to Walker by a medal, is awarded by governmental and educational institutions in honor of the late President General de Gaulle.

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

For The Record

University Communications.

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Hilltop Campus

Requirements: Specialized programs.

Department Secretary

Requirements: Bachelor's degree with account- ing background; strong communication and interpersonal skills; experience in finance and accounting; working with federal governmental agencies and foundations, PC word processing and spreadsheet skills; ability to organize and work under pressure during peak periods; must be able to work effectively with accuracy. Clerical testing and three letters of recommendation required.

Programmer

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.

Department Secretary

Requirements: Specialized secretarial skills with at least two years office experience; typing 40 wpm with accuracy; strong command of the English language and ability to deal with multiple priorities with minimum supervision; work and relate well with people. Clerical testing and three letters of recommendation required.

Programmer

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Academic Secretary

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 willingness to learn; good command of English; 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.

Medical Campus

Requirements: Bachelor's degree, master's degree preferred; strong interpersonal, verbal and written communication and management skills; ability to maintain excellent relations with students and staff; must be able to work effectively with accuracy. Clerical testing and three letters of recommendation required.

Assistant Director of Career Services

Requirements: Bachelor's degree, master's degree preferred; strong interpersonal, verbal and written communication and management skills; ability to maintain excellent relations with students and staff; must be able to work effectively with accuracy. Clerical testing and three letters of recommendation required.

Medical Campus

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