Volleyball Bears win third NCAA Division III title in four years

Announced with a record five All-Americans, the Washington University women's volleyball team capped a season of perfection by winning its third NCAA Division III title in four years on Saturday night. The Bears toppled the University of California, San Diego ( UCSD), in the championship match by a 15-11, 15-9, 15-7 score to finish the campaign at 40-0. With the win, the 1992 Bears became the first title holder in Division III history to complete a season undefeated. Going back to last year, they had won 64 straight matches against Division III competition, and 40 matches in a row at home.

The championship, which drew a crowd of 3,024, was held at the Washington University Field House for an unprecedented third straight year.

The Bears were led by a pair of NCAA All-Americans in senior middle blocker Lisa Becker, left, and senior outside hitter Michelle Kirwan who was crowned as NCAA Division III co-player of the year.

“Thanks for caring for our children,” and “Every day our daughters look forward to coming to school” make it no surprise the 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 enrolled families.

A child-care program, which will accommodate the children of professors who visit the University for a week or a couple of months, will allow the center to own a building, rather than rent, and the new design will be more conducive to a large center. “When we opened, we didn’t know just how many children we’d eventually have,” says Kleinberg.

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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 determine which attack patients will need invasive treatment to open blocked arteries. Of the patients who suffer heart attack patients whose blood flow is not restored by clot-dissolving drugs — a key question that often is difficult to answer during the time period when treatment is most effective, the investigators report.

Until now, an invasive X-ray imaging procedure called angiography has been the only reliable way to assess reperfusion — the return of blood flow — in a blocked artery, said Dana Abendschein, Ph.D., a professor and head of the Department of Medicine at the Washington University School of Medicine.

"It is our goal to identify which of these clot-dissolving drugs by disrupting their body's built-in mechanism for dissolving blood clots, researchers at the School of Medicine report. The findings provide the most direct evidence to date linking insulin to the high rate of cardiovascular disease in people with non-insulin-dependent diabetes mellitus (NIDDM) — a disease that affects 14 million Americans, the investigators say. A better understanding of these clotting disruptions may generate new pharmacological approaches to atherosclerosis therapy through diabetics in the national scientific meeting. Clinical studies over the past few years have hinted that overabundance of insulin and its precursors may contribute to athero-

Lazarus, who in 1990 was named director of the Washington University Medical Campus Student and Employee Health Services, will continue in that position in addition to her new role as director of student affairs, the newly created position of assistant dean. She assumed her new role Dec. 1.

"In her new position, Lazarus will assist Patricia L. Cole, M.D., associate dean for student affairs, who is the first assistant dean for student affairs at the University." said Schneider, M.D. He and Janet McGill, M.D., instructor of medicine, are lead authors of the study. One feature of NIDDM is a resistance to insulin, a natural chemical that allows cells to pull in and use glucose for energy. NIDDM patients release high levels of a blood clotting enzyme, called tissue factor, as they platelets. Thus, the team suggests that insulin stimulates production of a substance called tissue factor, which is a key component of heart attack. Thus, the team suggests that insulin stimulates production of a substance called tissue factor, which is a key component of heart attack. Thus, the team suggests that insulin stimulates production of a substance called tissue factor, which is a key component of heart attack. Thus, the team suggests that insulin stimulates production of a substance called tissue factor, which is a key component of heart attack.

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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 to perform," said Cox. In the early 1960s, the parable takes on an appropriately Whistlerian Friday night image a step further, with talking strobos, Robocops and android companions, which somehow seem to have manifested themselves. In the ideal world, real people teach computers how to heal the sick, span distances, educate minds and scan the universe for extraterrestrials — people like Jerry Cox.

J erome R. Cox, Sc.D., Harold B. and Adelaide W. Welge 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 otoaryngology at the Washington University School of Medicine channelled his talents into the emerging field of computer science. "He changed my life," 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 do."

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 in the next two decades led to the development of several commercial systems for detecting cardiac arrhythmia. In the mid-1970s, he formed Washington University teams that worked on the methodology to program computers that allow CT (computed tomography) and PET (positron emission tomography) scanners to diagnose cancer and evaluate the effectiveness of patient treatments. There has been a member of peer review and policy-making panels at the National Science Foundation, the National Institutes of Health and the Health and Defense Mapping Agency.

The common thread in his work is promoting the computer as a means of sharing, rather than simply generating data. "Communications was always a theme," Cox explains, "and I have always felt that communications and computers were tightly tied. Medicine is an information-rich profession; it makes sense for both computers and communications to play large roles there."

Since 1988, Project Zeus has been the recipient of a large part of Cox's time and energy. A high-speed, fiber-optic communications network, it transmits voice, video, data and high-resolution images simultaneously. Businesses are extremely interested in developing and exploiting the commercial potentials of such ATM (Asynchronous Transfer Mode) systems. Southwestern Bell Telephone Co., Southwestern Bell Technology Resources and NEC America contributed more than $4 million to Washington University's team during the initial three-year demonstration phase of Project Zeus.

In a recent demonstration at the Radiological Society of North America's annual meeting held in Chicago, Cox, his co-workers and graduate students showed what Project Zeus can do. Putting a prototype "Medical Doctor Work Station" through its paces, they achieved fictional patient records, including standard and enhanced X-rays, nuclear medicine images, medical video clips and ultrasound data. On the computer screen, viewers saw text, data, pictures and a real-time video conference of doctors discussing the case.

"We were able to carry out among many participants. As a further test of these ideas, the computer science department has received NSF funding to set up a complete operating multimedia network for faculty and staff by mid-1993. A key component of the demonstration network and the planned Project Zeus network is its broadband switch, designed by computer science Professor Jonathan S. Turner, Ph.D., which routes small fixed-size units of data known as cells. The demonstration system was designed with four 16-port switches, each because they take a long time to transmit, anywhere from 30 seconds to several minutes. Project Zeus runs 100 times faster than current telephone systems.

"Also, as Project Zeus adds new users, the capacity will grow," Turner explains. "More and more users share the same capacity. The architecture of Project Zeus has been designed to scale up to bigger systems."

In addition to Turner's switch, 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, while 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."

Work on ATM systems, fast-pack switching, fiber optics and applications such as high-definition television is going on at many universities in the United States and abroad, most notably in France and Japan. Cox says, Japan receives a lot of attention as a competitor for the edge in technology, but according to Cox, "The U.S. is still ahead in some ways. As you get closer to the devices, the American lead vanishes, but as you get closer to the software and push flexibility instead of rigid standards, the U.S. is still ahead."

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 had the chance to look over several 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 in 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 setup. For one thing, while other systems can do one or two tasks, Project Zeus can do several. Second, we have seen the projected fiber-optics network, and third, it's enormously flexible. Its design anticipates the emerging fiber-optics structure." 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 its 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 servers. 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 at 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 law 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 "Mythicism and Messianic Movements in Islamic Spain," A. M. Okasha, junior researcher, Institute for Oriental Studies, St. Petersburg, and 1992/93 Rockefeller Fellow, Sixth International House.


4 p.m. Dept. of Chemistry Seminar, "Energetics of Breathing in Children with Respiratory Failure," J. Julio Perez del Moral, prof., Albert Einstein College of Medicine, N.Y. City.

Monday, Dec. 7
4 p.m. Division of Biology and Biomedical Sciences Colloquium, "Open Heart Surgery: Building Architectural History," Ignasi de Sola-Morales, prof., Albert Einstein College of Medicine, N.Y. City.


Saturday, Dec. 5

4 p.m. Dept. of Chemistry Seminar with "Brungand the Evolutionary Role of dianthiphilus africanus," Jeffrey Mckeever, prof., Western U. and U. of Missouri-Columbia. Room 102 Wilson Hall.


Tuesday, Dec. 8


Wednesday, Dec. 9
9:15 a.m. Pediatric Grand Rounds, "The Emergenetics of Breastfeeding in Children With Hypothyroidism," J. John Petersen, assoc. prof., pediatricians, WU Dept. of Pediatrics and Anesthesiology, WU School of Medicine; director, Division of Critical Care; director, Pediatric Intensive Care Unit, St. Louis Children's Hospital.

7:30 p.m. Washington University Chamber Choir will present its first annual sing-song, "Messiah," Christmas carols. In addition, the choir, which is comprised of a mass by the Estonian composer Philippe Gros, McGill U, Montreal.

Friday, Dec. 11
9 a.m.-4:40 p.m. Dept. of Medicine presents a minisymposium, "Frontiers in Intracellular Matrix Biology and Genetic Skin Diseases," in honor of Arthur Z. Eisen, the Winifred and Emma Showman Professor of Dermatology, Erlander Aud., McDonnell Medical Sciences Bldg. For more info., call 362-8180.

9:15 a.m. Pediatric Grand Rounds, "X-Linked Hypophosphatemic Rickets: Most Common Heterozygous Form of Rickets," Michael P. Whyte, prof. of medicine, assoc. prof. of pediatrics, WU Dept. of Medicine; director, Molecular Research Unit, Shriners Hospital for Crippled Children.

10:30 a.m. Department of Pathology Thesis Defense, "Determinants of the Peripheral Membrane and Endosomal Membranes by High Gradient Centrifugation," WU Dept. of Biology Chromatography, Dale Warren, WU graduate student. Room 7738 Clinical Sciences Research Bldg.

Saturday, Dec. 12
9 a.m.-4 p.m. Dept. of Medicine presents a mini-symposium, "Lessons From Mitochondrial Enzyme Genetic Deficiencies," Arnold Strauss, prof., WU Dept. of Pediatrics. Room 423 McDonnell Medical Sciences Bldg.

Music

Sunday, Dec. 6
8 p.m. Performing Arts Department presents "Intermission: 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: $7 for the general public; $5 for faculty, staff, senior adults and students. For more info., call 935-4795.

Wednesday, Dec. 9
8 p.m. Dept. of Music Vocal Jazz Ensemble concert directed by Fred Behrhorst. Steinberg Hall Aud.

Phone:

2-2930 Complex Dynamics Seminar with Nicola Arcozzi, graduate student, WU Dept. of Mathematics. Room 199 Cupples Hall.

Jazz concert with saxophonist Oliver Lake. From public; $5 for faculty and staff; and $2 for students. Tuesday, Dec. 8 through Dec. 11. Givens Hall, first floor.

"Soylent Green" (also Dec. 5, same times). Room 100 Brown Hall. Cost: $3.

Exhibitions
December Graduates Exhibition: Opening: 5 p.m. Dec. 4. Exhibit continues through Dec. 18. Bliley Gallery, Bidxy Hall. Hours: 10 a.m.-4 p.m. weekdays, 1-5 p.m. weekend.

"Midwest Modern: St. Louis Architecture" by Harris Armstrong and Samuel A. Marx. Through Jan. 1. Givens Hall, first floor. Hours: 9 a.m.-5 p.m. weekdays. For more info., call 935-4655.

School of Fine Arts and Gallery of Art Faculty Show. Through Jan. 3. Gallery of Art, Olin Library, Special Collections. Hours: 10 a.m.-5 p.m. weekdays, 1-5 p.m. weekends. For more info., call 935-4523.

Films
Thursday, Dec. 3
7 and 9 p.m. Filmboard Foreign Film series presents "Midwinter Love: My Life M.") Room 100 Brown Hall. Cost: $3. For 24-hour Filmboard hotline, call 935-5983.

Friday, Dec. 4
7 and 9:30 p.m. Filmboard Feature Series presents "Hugs Bunny Cartoon Festival" (also Dec. 5, same time). Room 100 Brown Hall. Cost: $3.

Midnight. Filmboard Midnight Film Series presents "Sleepy Green" (also Dec. 5, same time). Room 100 Brown Hall. Cost: $3.

Miscellany
Thursday, Dec. 10
6-8:30 p.m. The Greater St. Louis Heart Association Presents "A Year of Survival: Measurement: A Challenge for the 1990s," a one-evening seminar featuring the quality of health care facilities, featuring a faculty of national experts. Andrew's Hotel, 9th and Chestnut. Cost: $40. Registration forms are available by calling 562-6832.

Friday, Dec. 11

Noon: 9 p.m. Piano solo by Stathus's Music House at the old Boyd's store, near the corner of Forsyth and Jackson in Clayton. Special discounts for Washington University faculty, staff and students. Sale continues from 10 a.m. to 9 p.m. Dec. 12 and from 11 a.m. to 6 p.m. Dec. 13.

Saturday, Dec. 12
6:30 p.m. The Student's Association of WU presents "Explore The World: Poland, China and Thailand." At 8 p.m., there will be a China Pavilion and Thai dance presentation. Six International House, 6470 Forsyth Blvd. For more info., call 863-5065.

Calendar guidelines
Events sponsored by the University — its departments, colleges 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 speakers) and affiliation, and admission. Signature: Qualitative photographs with descriptions are welcome. Send items to Marie Done at Box 1079 or via fax: 935-1095. 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 Wednesday and Sunday. Submissions must be received except holidays, and monthly during the summer. If you are uncertain about a due- date, holiday schedule, or any other information, please call 935-8533.

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Three million dollar — from page 1
He returned to Washington University/ Barnes Hospital's neurosurgery depart- ment in 1975 and served at St. Louis' Veterans Administration Hospital and City Hospital.

Following his father's death in 1979, Huang embarked on his second career — business. He continues to contribute to the medical field by serving as professor of medicine at Temple Medical College in Taiwan. In 1990 he received a Distinguished Alumni Award at Washington University's 150th anniversary celebration. Present alumni receive the award in recognition of outstanding professional achievement, contribution in areas of public service and exceptional service to the University.”
Music programs draw students from every discipline

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 School of Music, and enrollment in applied music programs has doubled in the past six years to about 300 students. "It's an open secret," says John Stewart, associate professor of music and head of the voice program. "We have only three music graduate students in the chamber choir, and the rest are from all over — math, physics, engineering, medical and law school, to name a few."

The symphony orchestra has expanded to 80 from 50 since director Dan P. Presgrave took over in 1988. Presgrave also directs the wind ensemble, which he has led since 1975. Presgrave invites amateur and professional musicians from the community to fill both groups, he says. Several professional musicians from the community have performed with the wind ensemble and the symphony are composed of about 70 to 75 percent Washington University students. The wind ensemble and orchestra play regularly scheduled concerts.

Russian delegation to visit campus to learn about U.S. social work education

A Russian delegation interested in the applied social work education in the United States visited Washington University's Warren Brown School of Social Work from Dec. 6-9. The three-member delegation, led by Dr. Vladimir Khinduka, Ph.D., dean of the School of Social Work, plans to take with them a faculty and students about social work education as well as visit some of the area's social service agencies.

As part of the visit, the delegation will discuss the challenges facing today's Russian social workers and the need for social workers to respond to the needs of the community. The delegation will hold a colloquium titled "Social Work and Social Reform in the Changing Russian Society." The colloquium is scheduled for noon to 1:30 p.m. Tuesday, Dec. 8, at the Brown Hall auditorium.

During the visit, members of the delegation plan to talk with faculty and students about social work education as well as visit some of the area's social service agencies. The delegation includes some of Russia's most prominent social work leaders. Visiting members are: Arkadii J. Eremin, chief of the Department of Social Work in the Ministry of Health; Sergei Puzin, chief of Moscow's Department of Education; and Vladimir Khinduka, dean of the School of Social Work.

Because of the center's hospital affiliation, the staff members are able to attend the center when they are attending to patients. "It's a wonderful center," says law professor John Drabek, J.D., whose two chil-

day-care center provides atmosphere of love and caring — from page 1

Kleinberg and the center's curriculum coordinator Rose Rudert are the center's voice-actor employees. "We painted the wall and put up the baseboard," said Rudert. Rudert said that because staff turnover is so low, employees have moved beyond the "how-do-we-work-together stage and on to using teamwork to master our child-care skills."

Sue Hayley, who has been teaching at the center for seven years, said the teamwork and camaraderie is one of the main reasons the enjoys working there. "But of course the children and families come first," she said. "I love being creative with the children. There are endless ways to interest them. All that makes me feel like I'm doing something very important in each family's life."}

Psychologist Professor Leonard Greengard, Ph.D., of Social Work, said he is very happy with the day-care that she likes to go back to visit, even though she's now in kindergarten at a neighborhood school. "We were very, very happy there. The kids were well cared for, and our child loved it there," he said.

In fact, parents were so willing to help out that a Parents Support Group was set up last year to raise extra funds for the center. Mark Kornbluh, Ph.D., assistant professor of history, whose two children attended the center, said nearly $3,000 was raised and divided equally among the center's 10 rooms. Teachers then bought toys, books and equipment.

The parents' group recently outfitted the new nursery room with requested donations from the University community. The staff came up with an impressive list, including aquariums, birds, books, a computer and a gina piano.

Such donations help keep the cost of enrollment down. Fees are based on the amount of time the child is enrolled and the age of the child. Full-time care for an infant, which is the most expensive age group, is $149 a week, and full-time care for a five-year-old is $106 a week. Kleinberg said the fees come out in line with hospital-affiliated day-care centers in the city and are slightly lower than the top independent day-care centers.

There are a lot of other benefits for parents as well. Some other extra families enjoy:

• A weekly newsletter. "Children's Clandestine" keeps parents informed of activities.

• The newsletter also offers tips on parenting skills and lists any center changes.

• Bi-monthly discussion groups. Parents and teachers meet to discuss such topics as discipline, age-appropriate toys and potbellies.

• An end-of-the-year gift. Harried parents are offered free child care for one Saturday in December. "It's our way of saying thanks for trusting us," said Kleinberg.
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 lists some ways how consumers can avoid becoming victims of credit card fraud during the holiday season.

Because consumer transactions are up during the holiday season, there are more opportunities for people who are willing to commit fraud to take advantage of shoppers. Unfortunately, the buying mood, says Michael M. Greenfield, credit card fraud is a common occurrence this time of year so that buyers are not even aware of the breach of the market themselves and can take to minimize the risk of theft, he says. First, consumers should not give credit card information over the phone to anybody 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 that the merchant is reputable, says Greenfield. He also suggests consumers destroy any carbon copies they receive from the phone. The receipts. The consumer’s credit card number can be lifted easily from those slips, he says. Under federal law, consumers face a liability of up to $50 for charges made illegally if the cardholder fails to report the loss or theft within 60 days of receiving the statement. Some consumers are leery 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 attorney general’s office for assistance. Consumers not to succumb to high-pressure tactics, he says. Rather, they should take time to consider a proposed transaction, check with the Better Business Bureau or a consumer protection agency, and phone the caller at a later time, he notes. Any caller who refuses to leave his or her phone number definitely should be avoided, he adds.

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

For The Record

Steven J. Givens, associate professor of education at CID, has been appointed associate professor of education and principal of the CID school for hearing-impaired children, presented a mini-seminar titled “Training for Children With Nucleus-22 Cochlear Implants.”

Mary Ann Drabick, Ph.D., assistant professor of education, organized a symposium titled “Academic, Vocational, Industrial, Culture, Scholarship and Teaching” for the History of Education Society’s annual meeting held in Boston. Drabick also presented a paper titled “Women and Social Roles in Bryan Monroe, 1915-1940” in the symposium.

Raj Nakra, M.D., professor of psychiatry, gave an invited talk titled “Alzheimer’s Disease — Diagnosis and Treatment Strategies” during the scientific session of the South Carolina Academy of Family Practitioners’ annual meeting held in Hilton Head, S.C.

Consumers beware: fraud increases during holidays

Steven J. Givens has been appointed editor of the award-winning Washington University Communications. In that role, he serves as editor of the University Communications.

In being named to the French government’s Ordre des Palmes Académiques, Robert M. Walker, Ph.D., McDonnell professor of physics and director of the McDonnell Center for the Space Sciences, has been named an officer in “l’Ordre des Palmes Académiques” by the French government. The title, accompanied by a medal, is awarded by governmental decree to professors, scholars and scientists who have distinguished themselves in their field.

The insignia was presented to Walker by the Honorable Yves Gaulieu, consul general of France for the Middle West. James F. Mauze, St. Louis’s honorary consul for France, looks on.

On Assignment

A team of international election observers, including Victor T. Le Vine, Ph.D., professor of political science, traveled to Ghana, West Africa, for the recent presidential elections. The 25-person team, sponsored by the Carter Center and University of Oklahoma, spent a week in Ghana monitoring polling stations, watching the counting and tallying of votes at the local and constituency levels and checking the national returns.

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.

The French Connection

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Student Union president reaches out to University community

The president of Washington University has created several initiatives designed to foster communication between students, faculty and staff. Among the initiatives are a Student Union director of campus relations to encourage unity among members of the University community and seeking faculty input into the Student Union course evaluation booklet.

Beginning next semester, Student Union and the College of Arts and Sciences will work jointly on a course evaluation booklet. The booklet, which is distributed each semester, is based on student responses to a 14-question survey. Student feedback is used to prioritize areas for work load to quality of the instructor. The booklet, which is published in the evaluation guide until approximately six years ago, when the Student Union Course Evaluation and Teaching Committee took full responsibility for the project, according to Walker.

In the past, some faculty members have desired more information about how the survey results have been reported because "no one has explained to them how the process works," he added. "The evaluations can be more informative, and the data more accurately and more efficiently pre- duced.

Besides offering faculty input into the process, the year prior grant will be more cost-effective because Student Union and the college will share publication costs. Walker said Student Union and the School of Engineering and Applied Science distribute a course guide for engineering students each semester. In addition, for both the engineering and arts and sciences guides, Walker is seeking input from the college and student perspectives. A faculty member, he said, Student Union hopes to establish joint publishing arrangements with the Engineering School by consulting with the individual school council and dean.

Hilltop Campus

The following is a list of positions available at the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 150 North Brookley Hall, or by calling 393-9590.

Contract and Grant Coordinator

Requirements: Bachelor's degree with account- ing background; strong communication and interpersonal skills; experience in fund raising and working with federal governmental agencies and foundations; PC word processing and spreadsheet skills; ability to organize and work under pressure during deadline periods, and strong attention to detail 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 student leaders and employees; experience in legal or educa- tional setting desirable. Resume and three letters of recommendation required.

Audiovisual Coordinator

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

Medical Campus

The following is a partial list of positions available at the School of Medicine:

Requirements: Associate's degree or equivalent; specialized secretarial or business training; three years general office experience; typing 50 wpm with accuracy; word processing experience; experience with 3 graphic design; knowledge of 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: Associate's degree or equivalent; specialized secretarial or business training; three years general office experience; typing 40 wpm with accuracy; must have good dictaphone and PC skills; typing 70 wpm with accuracy. Clerical testing and three letters of recommendation required.

Academic Secretary

Requirements: High school graduate with a minimum of two years 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.

Academic Secretary

Requirements: Poltical Science: Require- ments: High school graduate; basic math skills and ability to operate a 10-key adding machine; one to two years office experience; typing 40 wpm with accuracy; good command of the English language and ability to deal with multiple priorities with minimum supervision; position requires overtime, including nights, weekends, etc. A good personality and good grooming are essential. Clerical testing and three letters of recommendation required.

Computer Operator, Part-time

Requirements: High school graduate/equivalent, some college preferred, must have a working knowledge of the VAX system and be familiar with computer hardware, printers, tape drives and terminals.

Medical Research Technician

Requirements: Associate's degree; preference for biology or related field with three years college; must be able to work independently; should have a working knowledge of the VAX system and be familiar with computer hardware, printers, tape drives and terminals.

Research Patient Coordinator

Requirements: Associate's degree; preference for biology or related field with three years college; must be able to work independently; should have a working knowledge of the VAX system and be familiar with computer hardware, printers, tape drives and terminals.

Medical Laboratory Technician

Requirements: Associate's degree; knowledge of medical terminology; must have a working knowledge of the VAX system and be familiar with computer hardware, printers, tape drives and terminals.

Phlebotomist, Part-time

Requirements: High school graduate/equivalent; must have completed a course in phlebotomy and certification preferred; must have a working knowledge of the VAX system and be familiar with computer hardware, printers, tape drives and terminals.

Medical Research Technician

Requirements: Associate's degree; knowledge of medical terminology; must have a working knowledge of the VAX system and be familiar with computer hardware, printers, tape drives and terminals.

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