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The observer could be launched as early as fall, but 1996 is a more realistic time frame, he said.

**Organ farming**

Genetically engineered pigs may someday provide much-needed transplant organs for humans, said John Atkinson, M.D., professor and head of the Department of Medicine. Atkinson and collaborators in England have developed pigs whose cells carry human proteins that may protect the pig's organs from rejection in the human body.

**Medical researchers have turned to animals as possible donors because of the severe shortage of human organs, Atkinson said. The major obstacle to transplanting organs from other species is rejection.**

Continued on page 4

**Patty Jo Watson named Mallinckrodt professor**

Patty Jo Watson, Ph.D., professor of anthropology, has been appointed Edward Mallinckrodt Distinguished University Professor, Chancellor William H. Danforth recently announced.

This named professorship is a recognition of Watson's numerous achievements and her high standing among her colleagues. Watson began her career in Near Eastern archaeology, excavating prehistoric sites in Iraq, Iran and Turkey. Since 1983 she has focused her research in North America, where she has excavated prehistoric pueblos in New Mexico and rock shelters and shell mounds in Kentucky. Much of her work has examined the origins of agriculture, both in the Near East and North America. Watson also recently led a research team in investigating skeletal remains dating 8,000 years ago that were found in a Colorado cave. These are the second oldest human remains found in Colorado.

She is especially well known for her work with artifacts left by prehistoric people who explored and mined portions of the world's longest cave — the Mammoth Cave System in Kentucky. She has focused her research in North America, where she has worked with artifacts left by prehistoric people who explored and mined portions of the world's longest cave — the Mammoth Cave System in Kentucky.
Depression may trigger lethal heart rhythms, researchers say

Several previous studies have shown that about one in five cardiac patients also suffer from depression. Further work has suggested that clinically depressed people who have heart disease are more likely to have heart attacks and worse outcomes than heart patients who are not depressed.

Despite knowledge of the connection between heart disease and depression, there is little understanding of the mechanism that links the two. Why depressed people with heart problems are five times more likely to die from a heart attack than comparable, non-depressed individuals is not clear.

We found that heart patients with depression were between six and seven times more likely to have episodes of VT than those who were not suffering from depression.

Carney says the link between VT and depression is interesting, but there are other factors that may contribute to the more serious heart condition and higher death rate seen in depressed patients with heart disease. For example, depressed patients are more likely to smoke than non-depressed people, and smoking is a risk factor for heart disease. Depressed patients also are less adherent to their prescribed treatment, and poor compliance with medication, diet, or other parts of their treatment regimen may lead to more serious cardiac problems.

Another possible explanation in the connection between increased activity in the sympathetic nervous system and VT is that the sympathetic nervous system prepares the body to react to situations of stress and emergency. Increased activity in that system can result in VT. "We also know that increased sympathetic nervous activity has been demonstrated in depressed patients," Carney says. "It could be that problems in the sympathetic nervous system increase morbidity and mortality for cardiac patients who are depressed."

This is the first study to examine the relationship between ventricular arrhythmia and psychiatric depression. Carney says further studies are needed to define the relationships among depression, social support, smoking and other risk factors for heart disease. Depression is a common problem in heart patients, he says, and it appears to be associated with a higher incidence of VT. He says the link between depression, sympathetic nervous system activity and mortality also warrants further study.

"Our search for a reason for increased cardiac mortality in depressed heart patients has led us to study VT. We know that VT is associated with sudden cardiac death, so it makes sense that elevated sympathetic nervous system activity could be behind the problems faced by depressed heart patients," Carney says. "It all hangs together very well." -Jim Dryden
Cox plays key position in cardiac surgery

For years James L. Cox, M.D., regretted his decision to go to medical school. The same day in the summer of 1963 that Cox received an acceptance letter from the University of Tennessee Medical School, he also received an offer to play shortstop in the minor leagues for the Los Angeles Dodgers. It wasn't the first time Cox had been approached to play in the minor leagues. He had already turned down an offer from the Dodgers at the age of 18 and another from the San Francisco Giants at the age of 16.

“I thought it would be far more unlikely that I could ever be a doctor than it would be that I could ever be a baseball player,” Cox says. “So, I went to medical school.”

Born and raised on a farm outside Fair Oaks, Ark., a tiny community just west of the Mississippi Delta, Cox had little exposure to the world of medicine — save from occasional house calls from the family doctor.

While growing up, athletics played an important role in Cox's life. And after outstanding high school performances on the football field, the basketball court and the baseball field, Cox entered the University of Maryland at age 17 and played baseball for the Chicago White Sox.

While Cox buried himself in the books during medical school at the University of Tennessee at the age of 18 and worked long hours during a research fellowship at the University of Kentucky, he continued to play baseball through the University of Tennessee at the age of 35, Don Kessinger, went on to the major leagues where he played shortstop for the Chicago Cubs for 11 years and later for the Los Angeles Dodgers.

The main reason Cox went to Ole’ Miss, he says, was because the school offered him and his best friend baseball scholarships. Cox's friend Don Kessinger, went on to the major leagues, where he played shortstop for the Chicago Cubs for 11 years and later for the St. Louis Cardinals and the Chicago White Sox.

While Cox's talents on the baseball field are not widely known, his expertise in cardiac surgery is widely admired and respected. And along with seeding the faculty at Washington University School of Medicine in 1983 as chief of cardiothoracic surgery, today, at the age of 50, he continues to oversee the Division of Cardiothoracic Surgery and is the Evarts A. Graham Professor of Surgery.

“Atrial fibrillation disrupts the coordination between the atria and the ventricles, a key pumping chamber of the heart. The lack of synchronization decreases the overall pumping ability of the heart. The resulting abnormally slow blood flow can cause blood to pool and clot to form, which can then migrate to the brain and cause a stroke. It is estimated that atrial fibrillation is responsible for some 150,000 strokes annually in the United States.”

Despite the wide range of antiarrhythmic drugs and surgical and electric-shock therapies available to physicians, there was no cure for atrial fibrillation until recently. Thanks to the pioneering efforts of Cox and a team of investigators at the School of Medicine, Cox led the team of researchers, which includes Ferguson, John Boineau, M.D., professor of medicine and surgery, and Richard Schuessler, Ph.D., a research assistant professor of surgery. The team developed a surgical procedure to cure atrial fibrillation.

The operation, known as the Maze procedure, goes by the name from the maze-like pattern of incisions surgeons place on the surface of the atria, the upper chambers of the heart. The incisions block electrical signals that cause the heart to beat out of control, while channeling normal electrical currents through the maze to activate regular heart function.

"...all of the things I could never do, open heart surgery would probably be the most challenging. And if I sort of just decided I would give it a shot.

"The diagram had one entrance, one exit, one true route and lots of blind alleys," Cox said. "It looked just like a maze, so I called it the Maze procedure."

The surgeons called it one of the worst operations in cardiac surgery because it required an open heart. The surgery involves creating a "maze" of incisions along the atria, which are the upper chambers of the heart, to create a series of "eddy" spaces where electrical currents cannot flow. The resulting "eddy" spaces prevent the eddies of electrical activity from flowing to the brain and causing a stroke.

"The mapping in animal models and later in patients, however, did show a pattern that was highly reproducible. That Saturday afternoon in his office, Cox drew a diagram of incisions that, if correctly placed on the atria, would interrupt the chaotic electrical impulses, while preserving the normal flow of electrical currents that allow the heart to beat regularly.

"The diagram had one entrance, one exit, one true route and lots of blind alleys," Cox said. "It looked just like a maze, so I called it the Maze procedure."

The surgical technique has proved fruitful.

"Because it was apparent to us very early on that the likelihood of being able to map atrial fibrillation and use the map to guide surgeons to incisions, the surgery can be individualized for each patient," Cox said.

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The surgery is difficult for cardiac surgeons to learn because so few have extensive experience operating on the atria. Cox says. However, Cox has spent considerable time teaching the technique to surgeons in the United States and overseas, including surgeons in Canada, Japan, Korea, China, Russia, Europe and South America.

"A career as a heart surgeon has proved both challenging and rewarding for Cox. He says he enjoys the variety of the profession and the satisfaction of helping patients. Cox has also served on numerous editorial boards and is a member of professional societies including the American College of Physicians.

"Outside of work, Cox spends most of his time with his family, who recently welcomed a new addition. Cox’s wife, Jennifer, gave birth to a daughter, Juliana, on Oct. 29. The couple also has a son, Justin, who is two years of age.

— Caroline Decker

Washington People
Exhibitions
"Recent Acquisitions: Rare Books and Manuscripts Added to Special Collections," Through December; Olin Library Special Collections, Level Five. Hours: 8 a.m.-5 p.m. weekdays.

"On Sahatbaha: School of Fine Arts Faculty Work," Exhibit opening: 5 p.m., Nov. 19. Exhibit continues through Jan. 3. Gallery of Art, upper floor, Steinberg Hall. Hours: 10 a.m.-4:30 p.m. weekdays. Note: The Gallery of Art is closed until Nov. 19 for maintenance.

"Into the Light: Gay, Lesbian and Bisexual Student Show," Nov. 12-Dec. 15. Bisby Gallery, Bisby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

Films
Thursday, Nov. 11
7 p.m. Jordan Hall. 1st Annual Short Film Festival. "Day for Night" in French with English subtitles. Room 100 Brown Hall. Cost: $5
For 24-hour filmboard hotline, call 953-5983.

Friday, Nov. 12
9:30 p.m. Filmboard Feature Series. "Reservoir Dogs." (Also Nov. 13, same times, and Nov. 14 at 9:30 p.m.) Room 100 Brown Hall. Cost: $3

Midnight. Filmboard Midnight Series. "Shy Anything." (Also Nov. 13, same time, and Nov. 14 at 9:30 p.m.) Room 100 Brown Hall. Cost: $3

Tuesday, Nov. 16
7 and 9 p.m. Japanese Film Series. "Ran." with English subtitles. Room 219 South Ridgley Hall.

Wednesday, Nov. 17
7 and 9 p.m. Filmboard Classic Series. "Butch Cassidy and the Sundance Kid." (Also Nov. 18, same times) Room 100 Brown Hall. Cost: $3

Lectures
Thursday, Nov. 11
9:30 a.m. Dept. of Medicine Grand Rounds. "The Enterococcus: Just When You Thought It Was Safe to Go Into the Hospital," Barbara E. Murray, former chancellor and gynecology, Vanderbilt U. School of Medicine, Nashville, Tenn.

4 p.m. Anthropology and Center for the Study of Islamic Societies and Civilizations seminar. "Comparing Miasms From Xinjiang to Istanbul: Problems of Ethnic Nationalism and Contextualizing Uighur Culture," Dr. Craig Angeline, Room 162 McDonnell Hall.

4 p.m. Biology and biomedical sciences student-organized seminar. "Regulation of Phospholipase Activity by G-proteins," Paul Sternberg, professor of Pharmacology and Cell Biology, University of Texas Southwest Medical Center, Dallas.

4 p.m. Chemistry seminar. "De Novo Simulations of Globular Protein Folding, Structure and Dynamics," Jeffrey Skolnick, professor of biochemical research, La Jolla, Calif. Room 301 McMillen Lab.


4:30 p.m. Math colloquium. "Multiplic- ation Operators on Functional Hilbert Spaces in Several Variables," Raul Curto, University of Iowa, Iowa City. Room 199 Capples I Hall.

6 p.m. The First G. Leland Melson Visit- ing Professorship and Lectures. "Color Doppler Sonography of Pulmonary Masses," Arthur C. Fleischer, prof. of radiology and radiological sciences and prof. of obstetrics and gynecology, Vanderbilt U. School of Medicine, Nashville, Tenn.

Friday, Nov. 12

4 p.m. Biology seminar. "Growth Factors in Development: Lessons from a Muscle Differentiation Model," Peter Weisblat, Rutgers U. Bell Labs, New Brunswick, N.J.


4 p.m. Math colloquium. "From a Muscle Differentiation Model," Peter Weisblat, Rutgers U. Bell Labs, New Brunswick, N.J.

4 p.m. Microbiology seminar. "Why Antibiotics Fail Against Some Bacterial Diseases," Lisa Olson, asst. prof, of Department of Pediatrics, U. of Texas Southwest Medical Center. Room 200.


Thursday, Nov. 18


4 p.m. Microbiology/Infectious Diseases Grand Rounds. "Us- ing Neuropeptides as a Biomarker for the Diagnosis and Treatment of Immune Diseases," Joseph L. Goebel, prof, of medicine, Center for Infectious Diseases, U. of Texas, Houston. Room 775 Interdisciplinary Research Bldg.

Friday, Nov. 19


4 p.m. Microbiology and Molecular Biology seminar. "DNA Methylation and Neurodevelopmental Disease," Lisa Olson, asst. prof, of Department of Pediatrics, U. of Texas Southwest Medical Center. Room 200.


Music
Friday, Nov. 12
8:30 p.m. Student/faculty concert. "Chinakovsky: A Concert to Honor the Composer on the Occasion of His 100th Anniversary of His Death," solo choral and music for four hands performed by students Robyn Reso, Gayle Ziegler, James Doering and students. Edison Bell Lab. Cost: $5 for the general public; $3 for seniors and $10 for students. Edison Theatre. For ticket info., call 953-6454.

Saturday, Nov. 13
8:30 p.m. Symphony Orchestra concert. "Shostakovich: Symphony No. 10." Conducted by Dr. Robert Pay. Program features "Ballad of the Brown King" by Margaret Bonds. Graham Chapel.

Sunday, Nov. 14
2:30 p.m. Symphony Orchestra concert. "Tchaikovsky: Symphony No. 6." Conducted by Dr. Robert Pay. Program features "Ballad of the Brown King" by Margaret Bonds. Graham Chapel.

Performances
Friday, Nov. 12

Saturday, Nov. 12

Sunday, Nov. 14

Miscellaneous
Thursday, Nov. 11
1-3 p.m. U. of Rhode Island Science Conference. "Future of the Town of Hartford, Illinois: A Colloquium." Sponsored by the Advancement of Science's Directorate for Education and Human Resources Program. Sponsored by the American Culture
Sports

Women's Volleyball

Last Week: St. Francis 3 (10, 6, 15, 15), 23; Central 3 (15, 11, 14, 15, 11); Washington 3 (15, 15, 15), McKendree 0 (6, 25, 25, 25).

This Week: NCAA Division III First Round Match: vs. Illinois College, 7:30 p.m. Wednesday, Nov. 17, at Field House; NCAA Division III Regional Semifinals: Saturday, Nov. 13, at sites and times to be announced.

Current Record: 39-2

For the seventh consecutive season, Washington University has received a bid to the NCAA Division III volleyball national championship tournament. The two-time defending champions are ranked first in the nation with a 39-2 record, have won three of the last four national titles and will advance to the NCAA Division III semifinals, which will be held on Friday, Nov. 19, at the site of one of the participating institutions.

The Bears have already faced 12 of the other 13 teams in the tournament this season — beating all 12 and accumulating an overall record of 39-2.

On Saturday, the Bears had their 24-match winning streak snatched by NCAA powerhouse Wisconsin-Oshkosh and the University of Francis in a five-game marathon. Senior setter Kristin Hausman, a native of Washington, Mo., who was named the USA's most valuable player last weekend, followed up that performance by digging a record 33 kills against St. Francis.

Football

Last Week: Colorado College 38, Washington 16

This Week: Season complete

Final Record: 6-4

National champions and unbeaten Colorado College came from behind to beat the Bears with 24 unanswered points in the second half of Saturday night's game. The final score was 24-20.

On Sunday, the Bears' 24-match winning season came to an end with a 2-1 loss to the University of Wisconsin-Oshkosh in the first round of the NCAA Division III national tournament in Wheaton, Ill. The University of Wisconsin-Oshkosh knocked out Washington, the South Central region top seed, to advance to the quarterfinal round of the National Invitational Tournament (NIT).

Junior forward Kevin Neebes, Cleveland, Ohio, and senior forward Nelson Vincent, Visalia, Calif., went 14-for-16 as Washington-Oshkosh took Wheaton in four games (36-18, 36-18, 36-18, 36-18).

Men's Soccer

Last Week: Wisconsin-Oshkosh 2, Washington 1

This Week: Season complete

Final Record: 12-6-1

The Bears' 12th straight winning season came to an end with a 2-1 loss to the University of Wisconsin-Oshkosh in the first round of the NCAA Division III national tournament in Wheaton, Ill. Wisconsin-Oshkosh knocked out Washington, the South Central region top seed, to advance to the quarterfinal round of the National Invitational Tournament (NIT).

Junior forward Kevin Neebes, Cleveland, Ohio, and senior forward Nelson Vincent, Visalia, Calif., went 14-for-16 as Washington-Oshkosh took Wheaton in four games (36-18, 36-18, 36-18, 36-18).

Men and Women's Cross Country

Last Week: Idle

Next Meet: At NCAA Division III Midwest Regionals, 11 a.m. Saturday, Nov. 13, Oshkosh, Wis.

Men and Women's Swimming/Diving

Last Week: Washington Relays (not scoring)

This Week: At Missouri-Illinois, 6:30 p.m. Wednesday, Nov. 17; vs. Missouri State, 5 p.m. Thursday, Nov. 18; at Missouri State, 11 a.m. Saturday, Nov. 13, Decatur, Ill.

Current Record: Men: 1-1, Women: 0-1


Tuesday, Nov. 17


Wednesday, Nov. 17

7:30 a.m. A Response to Back Stage," a tour of the St. Louis Repertory Theatre. Meet at St. Louis International Terminal for bus. For more info., call 935-5910.


Saturday, Nov. 13

2 p.m. Town Hall Meeting. "A Response to President Clinton's Health Plan," presented by Don Reiken, director, Office of Rural Health Policy. Department of Health and Human Services and member of President Bill Clinton's Health Care Task Force; Pat Harvey, executive director, Missouri Citizens Action; Marie Nassuck, health care chair, AARP of Missouri; and Fred L. Brown, executive director and CEO, Barnes-Jewish Inc. Christian Health Services; Glenn Weber, state representative and executive director, Gateway Older Women's Network. Co-sponsored by Gateway Older Women's Network and first season of the University of School of Social Work. Room 100 Brown, Hall. For more info., call 892-1255.

2:30 p.m. Office of Continuing Medical Education symposium "Contemporary Cardiothoracic Surgery." (Continues through Nov. 19.) Ritz Carlton Hotel. For registration and cost info., call 362-6993.

3:30 p.m. Joint Center for East Asian Studies colloquium. "The Role of Women in the Chinese Community," sponsored by the Asia Society of Missouri. Room 313 Social Sciences Hall, U. of Missouri, St. Louis. For more info., call 533-5753.

Thursday, Nov. 18

8:30 a.m. NASA Origins of Solar Systems Program. "What We Know About the Birthplace of Aqueous Planetary Atmospheres: Interstellar Gardens in the Laboratory." (Continues through Nov. 20.) 6:30 p.m. May Aud., Simon Hall. For cost and registration info., call 623-6240.

Friday, Nov. 19

11:30 a.m. Women's Club of WU fall luncheon. Musical performance by Tass Filat, Mandrake Horse Ensemble. Plaza (formerly Town & Country Mall). For info., call 935-2950. To make a reservation and pay check payable to Women's Club of WU to Carmen Mentré, 197 Forest Ave, St. Louis, MO 63117 by Nov. 12.

7:30 p.m. African Arts Festival. A celebration focusing on Eastern African culture and the influence of Africa on Islam. Festival features a variety of music and entertainment. (Continues through Nov. 21.) Events will take place throughout the St. Louis area. For more info. about events and cost, call 935-5645.

Saturday, Nov. 20

8 p.m. Department of Continuing Medical Education seminar. "Management of Cardiothoracic Pathologic Conditions." Marriott Pavilion Hotel. For cost and registration info., call 362-6893.

Calendar guidelines

Event entries should state date, place, sponsor, title of event, name of speakers (if any) and admission cost. Calendar submissions should state time, date, place, sponsor, title of event, name of speakers (if any) and admission cost. Quality promotional photographs with descriptive information should be submitted to Judy Badwin at Box 1079 (or via fax: 935-6543). For more information, call 935-4926.

The calendar deadline is now 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. Information should be submitted as a Word document, either on disk or via email, to calreg@wustl.edu.

For more information, call 935-4926.
program the production of sperm and egg.

This important debate was evident at the annual meeting of the American Society for Cell Biology. Many such meetings are held annually, and researchers suspect it is of great importance. Not yet a consensus on the role cell death plays in producing sperm and egg.

A trio of researchers from the School of Medicine, University of Washington, have been working on a new approach to controlling human fertility, "Curtiss says. "It's a new way of thinking about how we can control fertility."

The vaccine would prevent fertilization before conception, says Roy Curtiss III, Ph.D., George William and Irene Koechig Freiberg Professor of Biology. While still in the testing phase, the researchers believe the vaccine would be effective in men and women. The researchers hope to block conception with an orally active drug.

Curtiss and his team of researchers are investigating a path first genetically determined, by targeting the cell's ability to divide and differentiate. The vaccine would prevent fertilization before conception, says Roy Curtiss III, Ph.D., George William and Irene Koechig Freiberg Professor of Biology. While still in the testing phase, the researchers believe the vaccine would be effective in men and women. The researchers hope to block conception with an orally active drug.

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Of note
During the annual conference of the North Central Council of Latin Americanists held in Decatur, Iowa, DeAnna Cliff, a doctoral candidate in history, received a paper for the Best Student Research Paper Paper for her presentation on "The Allende Demonstration: Nixon's Ideological War Unmade"... David Harris, M.D., Ph.D., assistant professor of psychiatry at Washington University, received a $135,000 three-year grant from the Alfred P. Sloan Foundation and a $114,000 two-year grant from the March of Dimes Birth Defects Foundation for research on the processing and trafficking of normal and mutant mammalian protein products... Speaking of
Karen Levin Coburn, associate dean of students for student development, was a keynote speaker at the National Association of College Admission Counselors' national conference held in Pittsburgh. Her topic was the emotional and psychological aspects of students' transition from high school to college and the impact on families... At the Alexander Graham Bell Association for the Deaf conference held in Denver, Lisa S. Davidson, school audiologist and lecturer at the Central Institute for the Deaf (CID), was a participant on a panel titled "Mapping Techniques for Young Children." Christine H. Gauvin, lecturer in education of the hearing impaired and coordinating teacher in the Pre-Primary Department at the CID School, took part in a panel titled "Capitalizing on the Cochlear Implant for Teaching Speech." Victoria J. Kozak, assistant professor of education of the hearing impaired and coordinator of the CID Parent-Infant Program, presented a paper titled "Determining Appropriate Education."... Michael J. Miller, Ph.D., professor of electrical engineering, presented a discussed paper titled "Representation of Knowledge in Complex Systems" before the Royal Statistical Society in London, England. The paper described work he conducted with Ulf Grenander, professor of applied mathematics at Brown University... Eric Pankey, assistant professor of English and director of The Writing Program, read from Apocryphon, his third collection of poems, at the Kansas City Art Institute. At George Mason University in Fairfax, Va., Pankey read from Apocryphon and two other collections of poems titled For The New Year and Heartwood. He also conducted graduate poetry workshops and delivered a paper on "Environmentally Satisfactory Replacements for Woodfuel in Dry, Deforested and Populated Regions of Africa, Latin America and Asia." His co-authors were Wayne G. Briggs of Emory International based in Elsal, Ill., and Jack Whitten and Scott G. Haase, who earned master's degrees in technology and human affairs from the University in 1979 and 1992, respectively... During the proceedings of the sixth ISCA International Conference on Parallel and Distributed Computing and Systems held in Louisville, Ky., Ken Wong, D.S.E., senior research associate in the Computer and Communications Research Center, presented a paper on "Improving the Speed of a Distributed Checkpointing Algorithm." He also chaired a session titled "Interconnection Network Problems"... An exhibition of drawings and artist's books by Robert C. Smith, professor of art, are on display at John Burroughs School's Bonsack Gallery, 755 S. Price Road, through Dec. 1. Smith's artist book pictured above, titled "Poporama," features sculpture in paper forms... The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5411 (Hilltop Campus) or 362-3240 (School of Medicine). An Eagle Nation is the first booklength collection of poems by Carter Revard, Ph.D., professor of English. The new book is the latest volume in the University of Arizona Press Sun Tracks Series of American Indian Literature. Revard's poems are drawn from his diverse background: grew up on the Osage Reservation in Oklahoma, studied at Oxford University as a Rhodes Scholar and teaching medieval English literature at Washington for more than 30 years. Blending a precise knowledge of Old English poetic forms with a deep understanding of the diverse poetic traditions of the. Osage, he creates short prose pieces containing "a sense of global connection and connectedness." An Eagle Nation comprises several dozen poems, some previously published, in which Revard moves easily between cultures, genres, moods and perspectives. He speaks of jet planes, of terrorism and bomb threats, of monastic life and perestroika. "I am grateful that water and language, time and space, memory and writing have been given," Revard writes in his introduction, "and I've set their star-stuff into the best poems I could for you who hold this book." (The University of Arizona Press, Tucson and London)
Hilltop Campus

The following is a list of positions available on the Hilltop Campus. For more 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.

Accountant

940030. Accounting. Requirements: 18 hours of college business courses including business hours of accounting course work; ability to use/will to be trained to use mainframe computer, including financial on-line system (FIS, SIS, ELIG, FORCIS); ability to use personal computer, including spreadsheet software (WordPerfect); confidence in verbal ability; ability to deal effectively with University personnel; typing 45 wpm with accuracy. Clerical tests and three letters of recommendation required.

Assistant Administrator

940046. Accounting. Requirements: Bachelor's degree; experience in computer systems and automation. Resume and three letters of recommendation required.

Director of Finance

940072. General Services. Requirements: High school graduate; some college preference; strong people skills, ability to work public; typing 40 wpm with accuracy. Clerical tests and three letters of recommendation required.

Receptionist/Data Entry Clerk

940077. General Services. Requirements: High school graduate; some college preference; people skills, ability to work public; typing 45 wpm with accuracy. Clerical tests and three letters of recommendation required.

Systems Administrator

940096. Computing and Communications. Requirements: Bachelor's degree; experience in computer systems and automation. Resume and three letters of recommendation required.

Department Secretary

941000. Alumni and Development Programs. Requirements: High school graduate; college degree preferred; strong command of the English language; able to deal with multiple departmental and university supervision; typing 40 wpm with accuracy; organizational and communications skills; ability to work with peers, other managers, staff and students. This is a 30 month appointment. Resume and three letters of recommendation required.

Curator

941110. Art Gallery. Requirements: Bachelor's degree: art experience handling artifacts; experience with hand tools and power tools; trustworthy; experienced; ability to supervise; resume and three letters of recommendation required.

Director of Major Events and Special Projects

941141. Public Affairs. Requirements: Bachelor's degree, five years experience in event planning; ability to work evenings and weekends; ability to work with peers, other managers, staff and students. This is a 10 month appointment. Resume and three letters of recommendation required.

Department Secretary

941155. Gifts and Capital Projects. Requirements: Associate's degree or equivalent; experience in business and educational settings; excellent organizational and communications skills. Resume and three letters of recommendation required.

Programmer/Analyst II

94104. Computing and Communications. Requirements: Bachelor's degree; knowledge and experience with data processing; excellent organizational and communications skills. Resume and three letters of recommendation required.

Programmer/Analyst III

941057. Computing and Communications. Requirements: Bachelor's degree; good language; people skills; technical knowledge with minimal supervision; ability to learn quickly and adapt to new circumstances; experience with use and management of desktop computers; knowledge of desktop data base technology in a client/server environment highly desired; familiarity with DOS, Macintosh systems; knowledge of Novell, Samba, Microsoft network highly desired. Resume and three letters of recommendation required.

Receptionist/Secretary

941099. Mathematics. Requirements: Some college, ample experience in customer service interpersonal skills; friendly, courteous, pleasant, professional attitude; ability to be able to tolerate frequent interruptions; ability to communicate well in person, on the telephone and in writing; some aptitude for using complex equipment such as post-