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Amy Shanabrook, a senior majoring in earth and planetary sciences, and Raymond E. Arvidson, Ph.D., professor and chair of the Department of Earth and Planetary Sciences at Washington University, eagerly await the launch of the Mars Observer Mission. Shanabrook and Arvidson are poised to peel away the mystery of the Red Planet’s surface.

**Rich scientific haul**

**Priceless data expected from long-awaited Mars mission**

T he Mars Observer Mission, delayed at least 10 days by a fluky contamination of its instruments, is now set to begin its thorough study of Mars before the end of September. More than half a century after Orson Welles panicked the nation with his vivid radio broadcast of a Martian invasion, U.S. planetary scientists are poised to peel away the mystery of the Red Planet’s psyche.

In the 17 years between the Viking Mission — the last U.S. mission to Mars — and the upcoming Mars Observer Mission, planetary scientists have been plagued by a series of setbacks. Since the “Red Planet” in the first quarter of the 20th century, the images from Mars Observer are going to be spectacular. There isn’t a planetary scientist around who can’t wait to see what’s up there.

In addition to revealing secrets about the planet’s geology and atmosphere, the mission is considered by many scientists as a launch pad for a vigorous Martian exploration. Seventeen years is a very long wait to see what’s up there.”

**Handling the data**

Arvidson is director of the Geoscience Node of the NASA Planetary Data System, housed at Washington University. He has received NASA Public Service Medal twice in the past decade for exceptional contributions to the space program through new observations, revamped data-handling and networking. “Seventeen years is a very long wait to return to Mars, but in that time we’ve enhanced and hosed data-handling techniques and have vastly improved instrument calibration to gather data,” says Arvidson, an interdisciplinary scientist on the Mars Observer Mission and 20-year NASA veteran. “We’re in place now to make sure the data acquired from Mars Observer will live far beyond the mission and be distributed to wider outlets than any other mission before it. The images from Mars Observer are going to be spectacular. There isn’t a planetary scientist around who can’t wait to see what’s up there.”

In revealing secrets about the planet’s geology and atmosphere, the mission is considered by many scientists as a launch pad for a vigorous Martian exploration. Seventeen years is a very long wait to see what’s up there.”

**Data analysis and distribution**

Data analysis and distribution have been a lingering problem for NASA, especially in the wake of the space shuttle tragedy of 1986, the aborted Mars Observer Mission, and the upcoming Mars Observer Mission, planetary scientists have been plagued by a series of setbacks. Since the “Red Planet” in the first quarter of the 20th century, the images from Mars Observer are going to be spectacular. There isn’t a planetary scientist around who can’t wait to see what’s up there.

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**Rich scientific haul**

**Priceless data expected from long-awaited Mars mission**

...continued from page 4

**In this issue...**

**Medical Update:** Commonly prescribed drug may benefit heart attack patients

**Washington People:** Guido Weiss, Elinor Anheuser Professor of Romance Languages and Literatures, East Asian Studies Program and Student Union. For more information about the lecture, call 935-4620.

**Psychiatric disorders, childhood incest linked**

A link has been found between childhood incest and psychiatric disorders, such as depression, alcohol abuse and panic attacks. The study, one of the first to examine the specific psychiatric effects of incest, was published earlier this year in the American Journal of Psychiatry. It showed that among women who were being treated for mental health problems, incest victimized twice as many psychiatric illnesses as women who had not experienced sexual abuse. The study also found that if the abuse is not addressed in treatment, psychiatric illnesses are more likely to occur.

"What this tells us, as psychiatrists and mental health professionals, is if a patient comes into our office with these illnesses we need to address the abuse," says Elizabeth F. Pruchno, M.D., instructor in psychiatry and co-author of the study. "From a treatment perspective, if we don’t address the abuse, the patient will not have a full recovery.

Continued on page 2

Continued on page 6
Captopril reduces mortality rate in heart attack patients, studies show

A drug commonly prescribed for hypertension, captopril, can benefit heart attack patients by reducing the risk of death, according to several studies presenting different findings on the drug's impact, according to a recent study published in the Sept. 3 New England Journal of Medicine (NEJM).

In one study, Dinwiddie, M.D., associate professor of medicine at the School of Medicine, was a co-investigator on this Survival and Ventricular Enlargement (SAVE) study conducted at 45 centers and representing the efforts of 112 participating hospitals across the United States and Canada. It evaluated the use of the drug captopril, when first administered within 16 days after a heart attack, reduced the mortality rate in heart attack patients by 19 percent, reduced the rates of repeat heart attacks by 25 percent, and reduced the overall adverse cardiovascular events by 24 percent. These benefits resulted regardless of other types of treatment provided for these patients by their physicians.

The SAVE trial was conducted between 1987 and 1992 on 2,231 men and women throughout the United States and Canada. It evaluated the use of the drug captopril, which has been commonly used for hypertension and congestive heart failure, regardless of other types of treatment. The study’s findings demonstrate that captopril will lead to prolonged survival after a heart attack, reduce the deterioration of cardiac function, and reduce the number of recurrent heart attacks and hospitalizations for congestive heart failure.

In one of the most descriptive studies to date, she and co-author Stephen H. Dinwiddie, M.D., interviewed 75 women, ages 15 to 59, who had been sexually abused at some point in their lives. The study found that 52 victims of incest suffered 10 psychiatric disorders more frequently than women who had not been sexually abused. Among the disorders were: agoraphobia (fear of public places), anxiety, depression, panic disorder, posttraumatic stress disorder, simple phobia and social phobia. Although the average had suffered seven psychiatric illnesses during their lifetime, only one-third acknowledged that of the 21 women who had not been sexually abused. Although the rate of psychiatric illness was higher among the abused victims, more than half of them — 28 — had never seen a psychiatrist. Of the 24 incest victims who had been treated by a psychiatrist, only three were satisfied with their treatment. More than half were concerned because they were never asked if they had been abused. When the subject was brought up, they said it was dismissed or overlooked as being the problem. “That finding is important because it can delay or prevent recovery,” says Dinwiddie, who is an assistant professor of psychiatry. “It’s a rule of medicine that you have to think about it in order to find it. As a result of this study and others, we need to be more astute in asking questions relating to the area of sexual abuse and incest.”

In addition to delving into sexual abuse, Pribor says therapists, either on their own or with the aid of a psychiatrist, need to more fully explore psychiatric illnesses. “Because many of the illnesses that women develop, such as depression, can be treated with therapy, medication or both, Pribor says many incest victims may be suffering needlessly.

"Depression is a disorder that causes intense pain and a great deal of impairment in one’s life, and it can last a long time without treatment," says Dinwiddie. "Here we sort of a clinical hint — if a patient gives you a history of sexual abuse, then you need to ask about depression. This is a potentially treatable illness that enables you to intervene in a meaningful way — you need to ask about depression."

In recent years, researchers say it’s important that clinicians and mental health professionals, regardless of other areas of treatment, should be more diligent in asking questions relating to the area of sexual abuse and incest. "I no longer believe that it is a matter of just asking questions, but it is a matter of how you ask questions," says Dinwiddie.

The study will use positron emission tomography (PET) scanning, an imaging technique developed at the medical school, to study various parts of the brain before and after the early stages of Parkinson's Disease. Unlike other drugs used to treat Parkinson's, l-DOPA is designed to slow the development of symptoms rather than to treat the disease directly.

Pribor says his studies of women do not conclude that incest causes psychiatric illnesses, Pribor hopes it will be useful in determining further studies that may make a more direct link. For now, the researchers are reporting that they can use clinical practices are benefiting from the work. "What is nice about this kind of study is that it does affect your clinical practice," says Dinwiddie. "One thing I’ve learned is to bring up abuse at an early interview because it gives patients permission up front to answer. If they don’t feel comfortable talking about it in the beginning, they probably will a few weeks down the line."

"In our practice, I’ve become more diligent in asking questions relating to abuse," says Dinwiddie. "I no longer believe that I just know through some mystical clinical sense which people I should be asking."

Klahr receives award for renal disease research

Saulo Klahr, M.D., John and Adaline Simon Professor of Medicine, has been selected to receive the 20th David M. Hume Memorial Award of the National Kidney Foundation (NKF).

Klahr, who directed the Division of Renal Disease for 18 years, is being recognized for his work on the mechanisms of progression of renal disease and his studies on the pathophysiology of urinary tract obstruction.

The award, first presented in 1973, honors the late David M. Hume, M.D., who was chair of the Department of Surgery at the University of Missouri from 1955 to 1973, and a distinguished member of the NKF. Presented annually, the award recognizes an investigator who has distinguished scientific/clinical work in the field of kidney and urological diseases.

Klahr is physician-in-chief at the Jewish Hospital, part of the Washington University Medical Center. He is a past president of the American Society of Nephrology and the NKF, and chairman of the National Institute of Health and Urology.

Saulo Klahr Advisory Board of the National Institutes of Health.

Klahr will receive the award in November at the annual NKF banquet in Balti- more, Md.
Postdoctoral fellowships, in the mid-1960s, "says Weiss in monic analysis problems for a num-
dotes. He continues: "He was a lonely student then, strug-
and "grandson," respectively. 
research, as well as, in a sense, Weiss' intellectual "son"
Victor Wickerhauser, Ph.D., associate professor of math-
Roots.
Ronald Coifman, unfolds like a sort of mathematical
ers, is a vital cog in the rapidly
century," the wavelet theory, in
the mathematical events of this
kiddingly — though accurately —
was chair between 1967 and 1970. The link between
Wickerhauser and Coifman is that Wickerhauser was
was a three-year (1948-1951) regular in basketball.
In 1966, Mary Bishop Weiss died. 
the 10-year-old wavelet theory is 
among other things, applies math-
French mathematician Yves Meyer. 
Weiss created a bit of a stir in the sports world. To this day a
Doctorate under the instruction of another Zygmund pro-
to the University of Chicago. There, Taibleson received his
"I owe my career to
Guido, and I by no
mean the only person
who can say that." — Mitchell H. Taibleson
Weiss makes waves in mathematics

The field of wavelets has become a very hot item in mathematics and engineering. Washington University has been very active in this field. The key players in the burgeoning scientific activity are Guido Weiss, professor emeritus, and his student, Victor Wickerhauser, Ph.D., both of whom are continuing research under the guiding influence of Guido Weiss, Ph.D., Elizer Aharnas Professor of mathematics. 

Weiss is one of the most respected mathematicians Richard H. Riesz, Ph.D., and Mitchell H. Taibleson, Ph.D., have collaborated with — those who can say that. "
"Mathematicians can make an impact by proving impor-
tant theorems or they can make their mark by spreading
the essence of harmonic analysis. Weiss' family moved to Chicago after two years in
Vienna. The family's journey to the United States was
unacceptable.

As TIME's "man of the year" in 1993, Weiss has certainly made an impact on the world of mathematics. His work has been instrumental in the development of wavelet theory, which has applications in fields such as image compression, signal processing, and data analysis. "I owe my career to Guido, and I by no mean the only person who can say that," Weiss says with a smile.

"I was a brilliant intellectual, highly influential," Weiss recalls. "But everyone became attracted to Zygmund as a person. His personal-
ity may have been his most profound influence." Weiss taught at DePaul University from 1955 until coming to Washington University in 1961. The reason he has stuck with the University was the absence of nepotism laws at the University. Among these are the atomic and molecular theory of Hardy spaces (with Cowling and Stein) and the interpolation of linear operators (with Stein and others). In each instance, he has reawakened

"As a mathematician, I have always been concerned with the relationship between mathematics and society. I see my work as a way of bringing mathematics to the public and making it accessible to everyone," Weiss says. "I am honored to have been able to contribute to the field of mathematics and to have had the opportunity to work with such brilliant minds as Zygmund and Weiss. I am looking forward to seeing everyone," Weiss beams, saying...
Lectures

Thursday, Sept. 10

Noon. Division of Biology and Biomedical Sciences Health Awareness Program, "Translating Theory to Practice," Joyce Brunner, University Hospitals. 4950 Children's Place.

Friday, Sept. 11


Saturday, Sept. 12


Sunday, Sept. 13

1:30 p.m. Ethics of Medicine, Law Constitutional Conference, "Church and State: Is the Wall Falling Down?" Douglas Laycock, prof. of law, U. of Texas, Austin. A panel discussion will include: Richard Arnold, chief judge, 8th U.S. Circuit Court of Appeals; Harry James Cargan, prof. of literature and languages, Webster U.; Carl E. Hestek, prof. of law, U. of Missouri, Columbia; and Karin L. Murphy, ass'nt prof. of psychology, Wright State University, early childhood education, U. of Missouri, St. Louis. Richard Last, prof. of law, will moderate. Steinberg Hall Aud. For info., call 935-5659.

Monday, Sept. 14

Noon. Division of Biology and Biomedical Sciences Paley Library Research Conference, "Stress Protein Synthesis In Vivo and In Vitro," Pope Mooseley, Dept. of Internal Medicine, University of Pennsylvania, College of Medicine; Squire Room, Jewett Hospital.

Noon. School of Medicine Human Studies Committee Educational Seminar, "The Ethics of Immunologically Imposed Research Subjects: The Ulysses Contract and Other Issues," Evan DeRienzo, senior staff research ethicist, Biomedical Programs at National Institutes of Health, Wohl Aud., Wohl Hospital.

12:30 p.m. Society of Professors Emeriti Luncheon and Lecture, "Was Einstein Right?" Clifford Will, chair, WU Dept. of Physics, Whitney House. For info., call 935-5581.

4 p.m. Dept. of Biology and Genetics Seminar, "Molecular Themes in Cancer Management and Damage Compensation," Barbara Meyer, U. of California, Berkeley. Room 322 Rebstock Hall. Graduate Program in Immunology Sponsors the Historical Perspectives in Immunology Lecture: The Renaissance of Autoimmunity, 1905-1992," Noel Rose, prof. and chair, Dept. of Immunology, and From the Thesauri, Johns Hopkins School of Hygiene and Public Health.

Tuesday, Sept. 15

4 p.m. Dept. of Chemistry Seminar, "The Electron-rich Metal-metall Bond as a Rule of Thumb," Richard Walton, Dept. of Chemistry, Purdue U. Room 311 Pearson Building.

4 p.m. Dept. of Biology and Genetics Seminar, "Molecular Genetics of the Sex Determination Signals in Drosophila," Thomas Clines, U. of California, Berkeley; Cori Aud., 660 S. Euclid Ave.

5 p.m. Division of Biology and Biomedical Sciences Pedagogical Research Seminar, "Stereotype Growth Factor Receptor Expression in Neuronal Differentiation," Garrett Brodeur, WU Dept. of Pediatrics. Third Floor, Children's Hospital, Wohl Aud., Wohl Hospital.

Wednesday, Sept. 16

8 a.m. Dept. of Ob-Gyn Grand Rounds, "Pelvic Inflammatory Disease: Current Concepts, Changing Perspectives," David Sofer, ass'nt prof., Dept. of Ob-Gyn, Medical College of Virginia Hospitals; Clifton Aud., 4950 Children's Place.


4 p.m. Dept. of Biochemistry and Molecular Pharmacology Seminar, "Effects of Thrombomodulin on Tumor Cell Adhesion, Motility, and Metastasis," David Roberts, prof., Dept. of Pathology, National Institutes of Health, Bethesda, Md. Cori Aud., 660 S. Euclid Ave.

5 p.m. Medical Center Seminar Series and Buffet Dinner, "The Rhyme of the Heart in Heart Disease," Part I: Thematic Heart, Peter Hart, Prof. of medicine and molecular biology and pharmacology; Jeffrey Saffitz, assoc. prof. of pathology and medicine, and director of Autopsy Service, King Faculty Center, Room 601 Medical School Library. For info., call 454-8586.

Thursday, Sept. 17


4 p.m. Military Science Dept. Lecture/Seminar, "NATO-Mission and Organization," with a briefing team of senior officers from NATO Headquarters, Norfolk, Va. Room 112 Wilson Hall.


4 p.m. Division of Biology and Biomedical Sciences Student-run Seminar, "Genetic and Biochemical Studies of Protein N-Myristylation," Jeffrey Gordon, WU Dept. of Molecular Biology and Pharmacology. Erlanger Aud., McDonnell Bldg.

Friday, Sept. 18

9:15 a.m. Pediatric Grand Rounds, "Penicillin Skin Testing," Louis Mendelson, clinical assoc. prof., Dept. of Pediatrics, WU Dept. of Immunology, Center for Clifton Aud., 4950 Children's Place.


Saturday, Sept. 19


Sunday, Sept. 20


Music

Sunday, Sept. 13

2 p.m. Dept. of Music Presents the Faculty/Student Chamber Ensemble performing "La Revue de Cuisine" and other works by Bohuslav Martinu. Graham Chapel. For info., call 935-5581.
Little Theatre of the Deaf (LTD) will present "The Wonderful O and Other Amazing Tales" at 2 p.m. Sept 26 in Edison Theatre. The event is part of the theatre's "ovation's for young people" series.

Each year LTD tours thousands of schools, parks, museums, libraries and theatres throughout the United States and the world. The company enjoys a 20-year reputation for theatrical excellence. Designed to inform, entertain and delight young audiences, the company's programs have been hailed for their invention, spontaneity and theatrical magic. The New York Times called LTD "the most rewarding kids' show in town."

LTD's Edison presentation will begin with "Sports T鲷tes," which introduces the audience to sign language. "The Wonderful O" is a stage adaptation of James Thurber's tribute to the hard-working 15th century. The actors can make information, call 935-6543. The actors can make sun rise, all in the palms of their hands.

"Your Game" gives the audience a chance to participate with "Sports Intro," which introduces the audience to sign language. "The Wonder-

The NTD event changes society's perception of the deaf. By exposing the hearing world to sign language on stage, the company makes visible deaf people.

The visual language created by The National Theatre of the Deaf is described as being to sign language what song is to everyday speech. As languages watch the language created in the air, they discover a suddenly sharper, clearer understanding of the spoken word. The event is designed for both hearing and deaf audiences. The actors speak and use sign language throughout the presentation.

The wonderful event celebrates the NTD's October 10 anniversary. "National Theatre of the Deaf packs more imagination into five minutes than some companies put into their whole productions.

Wherever you turn, this happy production is up to something playful and original." Through its innovative artistry, NTD has had a far-reaching and profound effect on society's perception of the deaf. By exposing the hearing world to the beauty of sign language on stage, the company makes visible the intelligence and professionalism of all deaf people.

Tickets to "Ophelia" are $20 for the general public; $15 for senior citizens and Washington University faculty and staff; and $10 for students. For information, call 935-6543.

**Former New Zealand prime minister addresses Earth Summit's shortcomings**

Sir Geoffrey W.R. Palmer, a former New Zealand prime minister, will discuss this summer's global environmental summit in a lecture titled "What Went Wrong At Rio?" Palmer will speak at 4 p.m. Monday, Sept. 14, in the Most Courtroom in the Mudd Law Building. The event is free and open to the public.

Palmer, who served as prime minister of New Zealand from 1989 to 1990, at
tended the Earth Summit in Brazil in June. Scientists, environmental activists and polit-
icians from around the world confessed in Rio de Janeiro, Brazil, to discuss the world's environmental problems and possi-
ble solutions. "The summit produced international attention on the world's environment but it wasn't enough," he said.

"It was too little, too late."

**Sports**

**Bear games available via national service**

When Bennett University Kicks against Carnegie Mellon this Saturday, Sept. 12, Bear fans will have three ways to cheer: via voice, via fax, or via satellite.

One option is heading over to historic Francis Field for the 7 p.m. start time. Those in attendance will receive a complimentary poster complete with the Bears' current schedule.

Again in 1992, Washington fans can hear broadcasts of Bear football (and selected basketball games) on either KASP (1380 AM) radio, St. Louis' new 24-hour sports station, or KGWU (90.3 FM), Washington's campus station.

A new option comes via TRZ Sports, Services Inc., which has announced it will provide 800 telephone number access to the live play-by-play radio broadcast of Washington University football and men's basketball games on its TEAMLINE® phone service. The local radio stations will do the online radio broadcasts.

"We are extremely proud to be affili-

ated with Washington University and to provide our service to its fans," said Tom Zawistowski, TRZ president. "Our goal is to provide alumni, parents and fans with an affordable means of hearing their favorite team's games live from anywhere in the world."

To use TEAMLINE® for Washington University football, fans can dial 1-800-846-4700, ext. 1996, enter their Visa or Mastercard number and expiration date and then be connected to the live game broadcast direct from the Bears' radio network. TEAM-

TRZ pays the long distance call while fans are billed on their credit card a maximum of 50 cents per minute and as low as 20 cents per minute for the service. Fans can listen as long as they like. The cost of listening to a football game for three hours is $35.56, while a two-hour basketball broadcast is $30.50.

Fans also can access voice messages about their team during non-game times as well as get game box scores or season-

statistics via fax through TEAMLINE®. For more information on TEAMLINE®, contact the Washington sports information office at 935-5077.

**Volleyball hosts premier tournament**

The volleyball Bears will host the eight-team National University Classic this weekend at the Field House. The competition will include Five of the top 16 squads from last year's NCAA Division III tournament, plus the fifth-place team from the NAIA tournament.

The tournament will begin at 7 p.m. Friday, Sept. 11, against the State University of New York at Stony Brook. Following that match, Washington will face Thomas More (Ky.) College at 9 p.m. On Saturday, Sept. 12, the Bears match up against Trinity (Texas) University at 11 a.m. The championship match for the Washington University Classic will be played on Saturday at 4 p.m. Other teams competing for the crown include Kalamazoo (Mich.) College, Ohio North-

ern University, Nebraska Wesleyan University, and Southwestern University.
University's United Way campaign begins Sept. 16

As three people in the St. Louis area benefit from organizations supported by the United Way of Greater St. Louis, university employees have the opportunity to contribute as well. The United Way was first organized, Washington University has participated in the annual drive.

Last year the local drive raised more than $50 million, surpassing its goal. Of this year's needs of so many in our community who have serious health, social and emotional problems, my hope for Washington University is that all who can do so. Even if the contribution seems small, in this critical year.

The United Way estimates need to understand that The United Way of America, which received some negative publicity last year over the actions of a few of its employees, is not the parent organization for local United Ways.

The United Way of Greater St. Louis, an independent agency, funds raised to the United Way of America, provides campaign supplies, computer software and assistance in coordinating for local United Ways. That group, which sends less than 1 percent of the funds raised to the United Way of America, will give global coverage of the planet's climate is locked up in such ancient times. Mars.

Mars mission may determine whether life developed on planet - from page 1

Adriovich says. "Analysis of the mission data should illuminate the surface material composition and ultimately provide clues to whether the climate changed." Adriovich, Washington University assistant professor of planet and solar systems research, says, "We are trying to analyze the climate history of the planet." The United Way of Greater St. Louis.

"Mars Observer is going to be a fantastic mission, and a renewal of periodic missions to Mars." - Ray Adriovich

"The Viking Mission of the mid-1970s..." What that means is we have missed nearly be graduated from college," he says. "By the time Mars Observer brings back data from the mission my son will have graduated from college, and a possible return to Venus at the decade's close.

While absence may make the heart grow fonder, Adriovich says U.S. planetary scientists do not want trips to Mars to become a "frustrated" thing. As a member of the Viking lander flight team in 1976, Adriovich analyzed data from that mission at the Jet Propulsion Laboratory in Pasadena. His oldest son, who was three at the time, accompanied Adriovich and his wife to Pasadena.

"By the time Mars Observer brings back data from the mission my son will nearly be graduated from college," he says. "What that means is we have missed almost a generation of Mars research, and we don't want to do that again. Mars Observer is going to be a fantastic mission, and a renewal of periodic missions to Mars.

The University's drive begins Wednesday, Sept. 16, and continues through October. Contributions are tax-deductible and can be made by check or through the automatic payroll deduction plan.

"Each year it seems that the United Way supports our support, if we don't do it before, I am afraid this year is no exception," says Chancellor Williams H. Danforth. "The continued lag in the economy has markedly increased the demands on the agencies (supported by the United Way), especially during this year's needs of so many in our community who have serious health, social and emotional problems."

The United Way of America is one of the many organizations that receive United Way funding.
A fund to honor David Apirion, Ph.D., who died Aug. 29, has been established by the Department of Microbiology at the School of Medicine. Proceeds will go toward the purchase of new books and journals for the School Library and the preservation of the library's rare and historical book collection.

Apirion, 57, an avid cyclist, died after suffering a heart attack while on a bicycling tour. A member of the medical school faculty since 1965, Apirion was professor of molecular microbiology. He came to St. Louis after completing a postdoctoral fellowship at Harvard University. While there, he worked with world-renowned scientists and Nobel Laureate James Watson. Apirion's field of scientific study was molecular genetics and cellular organization.

Apirion was born in Petrikov, one of the first Jewish settlements in what later became Israel. He received his undergraduate and master's degrees in biology from Hebrew University in Jerusalem, and his Ph.D. in biological chemistry from the University of Glasgow in Scotland.

He was a visiting scientist for the U.S.S.R. National Academy of Science and a visiting scholar at the Russian National Science Foundation. He was a member of numerous professional organizations and had published more than 175 scientific articles on molecular genetics. From 1981 to 1987, he was on the editorial board of the Journal of Bacteriology.

In 1987, he organized and chaired the first American Society for Microbiology International Conference on RNA Pro- processing and mRNA Decay in Prokaryotic Cells.

He is survived by a daughter, Alison, by Clayton; two sons, Jonathan, of Minneapolis, and Michael, of Los Angeles; and several brothers and sisters, all of whom live in Israel.

Memorial fund contributions should be sent to: Washington University School of Medicine, P.O. Box 8189, St. Louis, Mo. 63131, or contact Marge Thomas at 362-7259.

Foner dean of social work dies

Wayne Vasey, former dean of the George Warren Brown School of Social Work, died Aug. 28 in Clearwater, Fla. He was 82.

Vasey, a gerontology expert, served as dean of the school from 1962 until 1967. He left to teach at the University of Michigan, Ann Arbor. Vasey retired as a professor emeritus from the University of Michigan in 1976.

While at the George Warren Brown School of Social Work, he took a leave of absence in 1964-1965 to serve as general manager of the Human Development Corp. of St. Louis, a non-profit social service agency that helps low-income residents in the city's slum area.

Vasey's work in gerontology led him to establish the International Center of Gerontology at the University of Miami, Coral Gables, Florida, in 1980. He was past president of the American Association for Gerontology in Higher Education and the National Conference on Social Welfare.

Before coming to St. Louis, Vasey was dean of the graduate school of social work at the University of Illinois. He was born in 1915 in Collins, Iowa. He received a bachelor's degree (1935) from Penn College of Kansas City, Kansas, and a master's degree in social work (1938) from the University of Denver.

He is survived by his wife, Mary; two sons, Stephen and Daniel; one daughter, Susan; two stepchildren; and one great-grandchild. A memorial service will be held Sept. 12 at the Union Temple-Adath Jeshurun in the St. Louis area.

Carnell H. Fleischer, Ph.D., professor of history, spent the spring 1992 semester visiting professor of history at the University of California, Berkeley. He also presented "The Beginning of the End: Apocalypses and Imperialism in the Mediterranean, 1492-1550" at the Renissance Society of America meeting at Stanford University. This semester he will be serving as visiting professor at the Villa I Tatti, the Harvard University Center for Renaissance Studies in Florence, Italy.

Jack Harriem, M.D., professor of clinical ophthalmology and visual sciences, served as co-chair of the fifth annual Washington University Corena for the Ritz-Carlton Hotel in St. Louis.

Penny Adams named business school's associate director of executive programs

Penny Adams, a management consultant and lecturer in accounting, has been named associate director of executive programs at the John M. Schidt and Dillin Business, Dean Robert L. Virgil has announced.

Adams will be responsible for marketing to corporations the school's executive education programs, including, the Executive M.B.A. and other non-degree executive programs; she will assist the director of executive programs at the school.

"Penny Adams is an addition of vital importance to the executive program," said Richard J. Scolletti, Ph.D., associate dean and director of executive education. "Her extensive experience in teaching and corporate consulting will greatly enhance our ability to serve the management development needs of the corporate community."

Adams, a certified management accountant with a master's degree in business administration from Washington University, has specialized in strategic cost management. She has designed and taught graduate courses in integrated planning and management, most recently at the Olin School.

Organizations she has researched or consulted with include Apple, Boeing Aircraft, Hewlett-Packard, MEM Microelectronic Materials, Stone Container, Mallinckrodt, Fisher Controls, McDermott-Douglas, Arthenius-Rusch, Maytag and Harley-Davidson. She is a frequent speaker on cost-management issues.

Adams' previous experience includes two years in international banking with Harris Bank and Trast of Chicago and eight years in medical practice management. Her last position in the service sector was as a special projects coordinator at Children's Hospital National Medical Center in Washington, D.C.

For The Record contains news about a wide variety of faculty and staff scholarly and professional activities.
Administrative Secretary
930022. Medical Alumni and Development Programs. Requirements: Minimum of four years of college, bachelor's degree preferred; typing 50 wpm with accuracy, three or more years office experience; excellent word processing, data processing, and overall computer skills; familiarity with Macintosh, Word, and Excel preferred; good command of English; ability to deal with multiple assignments and organize work to meet deadlines; ability to deal cordially, accurately, and responsibly on the telephone, in the office, and at special events; ability to work well with colleagues in a limited office space; and attention to detail. Clerical testing and three letters of recommendation required.

Technical Sales Specialist
930031. Campus Stores. Requirements: Minimum two years of college, bachelor's degree preferred; knowledge of personal computers and popular software; experience using a variety of microcomputer peripherals, such as modems and printers; must be physically able to lift system components; must be able to work evenings and Saturdays. Resume and three letters of recommendation required.

Assistant Administrative Assistant
930034. Medical Alumni and Development Programs. Requirements: Bachelor's degree preferred; typing 45 wpm with accuracy, good customer service attitude; general office experience and organizational skills; ability to handle and balance funds, work quickly and accurately under pressure; clerical testing and three letters of recommendation required.

Office Manager
930047. Medical Alumni and Development Programs. Requirements: Minimum one year of college, bachelor's degree preferred; three years general office experience preferred; typing 50 wpm with accuracy; excellent word processing skills; good command of the English language; ability to deal with multiple assignments, adjust priorities; ability to communicate effectively and accurately with public constituencies of the alumni and development office, including volunteers, donors, alumni, and officers of corporations and foundations; ability to deal with confidential information in a responsible and professional manner; ability to balance and prioritize diverse assign- ments. Advanced biology courses desirable. Clerical testing and three letters of recommendation required.

Clerical Assistant
930053. School of Social Work. Requirements: Bachelor's degree required; ability to deal effectively and sensitively with senior management; initiate and follow procedures for computer data analysis; familiarity with general principles of geochemistry data analysis; familiarity with software for computer data analysis. Submit curriculum vitae to Dr. Robert H. Easton, Director, Counseling Service, Washington University, Campus Box 1049, St. Louis, MO 63130-4899. Applications are invited for an appointment as instructor in psychology and counselor in student affairs at Washington University's Student Counseling Service. Candidates will be expected to provide individual counseling to undergraduate students in child psychology and related fields, provide information to residence hall staff in identification of and intervention with students' developmental and disordered behavior; provide counseling and psychotherapy services to students; and supervise graduate students in practicum pro- grams. Salary commensurate with qualifications. Requires master's degree or equivalent degree in psychology. Submit curriculum vitae to: Dr. Robert H. Easton, Director, Student Counseling Service, Washington University, Campus Box 1049, One Brookings Drive and St. Louis, MO 63130-4599.

Administrative Assistant
930045. Alumni and Development Programs. Requirements: Minimum three years of college, bachelor's degree preferred; typing 50 wpm with accuracy, experience with word processing; five years of office experience, including work with budget figures and reports; ability to deal effectively and sensitively with senior administrators, faculty, alumni, parents and prospective students; maintain confidentiality; excellent attendance record; good command of English; ability to handle multiple project-oriented tasks with strict deadlines requiring a high degree of organization and thought; available to work overtime as needed; prefer someone with familiarity with dictionary equipment and database management; experi- enced with Macintosh computers; knowledge of word processing, desk- top publishing and spreadsheet software. Clerical testing and three letters of recommendation required.

Career Counselor and Special Programs Coordinator
930049. Medical Alumni and Development Programs. Requirements: Minimum one year of college, bachelor's degree preferred; three years general office experience preferred; typing 25 wpm with accuracy, excellent word processing skills; good command of the English language; ability to handle multiple assignments, adjust priorities; ability to communicate effectively and accurately on the telephone, in the office and at special events. Clerical testing and three letters of recommendation required.

Medical school openings
The above listing includes only those positions available on the Hilltop Campus. Plans are under way to include School of Medicine job vacancy/positions available at the Office of Human Resources, 4480 Clapp Hall, telephone extension 935-5990. As the list is updated, interested parties may view the job postings at 8 a.m. Monday through Friday. People interested in applying for these jobs may make an appointment to talk with one of the recruiters while visiting the office.