Cartoonist Peters is among speakers in Assembly Series

Palenologist Stephen Jay Gould, author of Wonderful Life: The Burgess Shale and the Nature of History (1989), will open the fall 1990 Assembly Series at 11 a.m. on Sept. 5 in Graham Chapel. His talk is titled "On the Pattern of Life's History and the Improbability of Human Evolution." He was originally scheduled to speak Aug. 29.

Gould, the Alexander Agassiz Professor of Zoology at Harvard University, is the author of many books on evolution and scientific history. Among his books are The Mismeasure of Man (1996). The lecture series also will feature talks by Pulitzer Prize-winning political cartoonist Mike Luckovich and Gennady Gerasimov, an ambassador and spokesperson for the Soviet Foreign Ministry.

The Assembly Series, now in its 31st year, offers free lectures to the University community and the public. Unless otherwise noted, all of the lectures are held at 11 a.m. on Wednesdays in Graham Chapel.

Some of the first tenants to move into the new residence hall complex are (from left) David Bass, a junior from Springfield, Ill., Lance Kam, a senior from Honolulu, Hawaii, and Sultan Baker, a junior from Yonkers Heights, N.Y. They share a four-bedroom suite that has a living room.


dc

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Trinity

Washington
WALUSHINO UNIVERSITY IN ST. LOUIS

Wydown House

New residence hall complex open for business

The "OVATIONS!" 1990/91 season features international performing artists who will bring a range of classical and contemporary events to the stage.

The season will feature an 11-event "OVATIONS!" series: a new program called "Stage Left," in which Malinknecht Center Drama Studio, and an expanded "OVATIONs! for young people". "OVATIONs!" now in its third season, offers a diverse selection of world-renowned performing arts events to the general public.

Among the nearly 2,600 students who moved into the University's residence halls this past weekend, some 300 juniors and seniors are settling in this week as the first tenants of the new $12.4 million residence hall complex called the Wydown House.

The 128,000 square-foot project located in the South-40 at the corner of Big Bend and Wydown boulevards consists of two five-story buildings that are connected by a ground floor corridor. The design of the complex is considered to be among the most advanced in the country. "These buildings will help to fill a major need for upperclass housing on campus," says George C. Burris, director of housing and food service operations. "We are all very excited about being able to offer some of the best residence halls in the country."

Each building has five levels of suites. The suites are designed for four students and come with either four bedrooms and a living room or two double bedrooms and a living room. Each suite has its own heating and ventilating system thermostat.

Among the features included in the residence halls are wiring in each bedroom for personal computers to connect to the University's mainframe system; a suite in each building to meet the needs of handicapped students; four soundproofed music practice areas in one building; an exercise room, complete with life cycles, stair climbers and rowing machines; and a laundry room and a kitchenette on every level.

Among the highlights of the new residence hall is the garage, with one level below ground. The dark red brick and precast concrete of the Wydown Building exterior complements the existing architecture. The dark red brick and precast concrete of the Wydown Building exterior complements the existing architecture.

The Hastings & Chivetta Architecture firm, headquartered in Clayton, Mo., is the principal designer. The firm of Nagle, Hartay & Associates Ltd. of Chicago is the associate designer. General contractor for the project is HBD Contracting of St. Louis. Other St. Louis firms consulted on the project are Thesis Engineers for structural engineering, McClure Engineering Associates for mechanical and electrical engineering, Polk & Folks for civil engineering and Landscape Architectural Resources for landscaping.

Among the highlights of the new residence hall is the garage, with one level below ground. The dark red brick and precast concrete of the Wydown Building exterior complements the existing architecture.

International renowned British actress Claire Bloom will present two dramatic readings, "Then Let Men Know: A Portrait of Shakespeare's "Women" brings the bard's heroines to campus. On Oct. 5, Claire Bloom will offer her own dramatic adaptations of "The Turn of the Screw," the most famous ghost story in the English language.

Bloom has been receiving accolades since she first performed with the Oxford Repertory Company at 16. Since then she has performed in films and on stage in the United States and England. Both of Bloom's "OVATIONs! performances are dedicated to "Friends of the Edison Theatre." On Oct. 20, the Paul Winter Consort, which combines jazz, folk and classical styles with wolf, whale and eagle calls in a musical celebration of the natural world, will perform its original compositions.

The concert has been at the leading edge of "nature music" since 1977 when Winter and his consort released "Carnivorous Ground," their first album to mix sounds from nature with...
It's what mathematicians call an iterative process. Each fall for the past several years, Steven Krantz, Ph.D., professor of mathematics, has sent out a notice to students who are more and more enthralled with the latest buzz word in mathematics: fractals.

"It hasn't gotten to the point yet where students want to major in fractals, but that could be right around the corner," Krantz says. "Pop science is fostering an awful lot of false notions about the real world of science and mathematics. The love affair with the fractal is disturbing to many mathematicians like myself who see too many people latching onto the notion that this stuff is serious mathematics."

Chances are your only brush with fractal geometry presented to the world science the same visual form that MTV gave to rock 'n' roll. Generically speaking, a fractal is a natural entity that repeats its geometrical patterns at infinitely smaller scales. This means that, unlike the pit dimensions of a football field, its shape is difficult to measure accurately. The forms abound in nature; a few familiar fractals are snowflakes, coastlines, mountains and trees.

The most commonly cited fractal is the coast of England. Measured on a world map, the English coast is only a certain length, but if it is measured on a map of Britain, it's even longer because the British map reveals more detail. The more detailed the map, the more the coastline grows; the closer you look, the more it wiggles. When plotted geometrically on a computerized graph, the fractal details resemble the kaleidoscopic flower or the Haight-Ashbury print, shimmering whirls of crystals, beads and sea horse tails that reflect the numbers they represent. But is fractal geometry worthy of being taken seriously as mathematics? Krantz doesn't think so, not in a practical sense. And, angered by the media reports of how great his students and, "the public's perception of what mathematics is," he decided to set the record straight.

He found his solution in a review of two books on fractal geometry in the fall 1989 issue of The Mathematical Intelligencer. Krantz took the burgeoning academic phenomenon to task, and his work has sent waves of controversy throughout the scientific community, which, in the past several years, has been enamored with fractals and the larger concept of "chaos," rapidly evolving theories of the '70s and '80s that explore the surprisingly ordered state of disordered systems.

"The article makes bold assertions: that fractal geometry is a fad, a renegade form of mathematics, or not a pseudoscience; that public perception of mathematicians has become tarnished with the advent of the term; that the father of fractals, Benoit B. Mandelbrot, a researcher with IBM and adjunct professor of mathematical sciences at Yale University, did not discover the so-called "Mandelbrot set," one of the icons of fractal theory; that only academic works published by fractal geometry has received governmental funding for mathematics research is being directed away from such time-tested disciplines as algebra, analysis and logic favor of the 'new kid on the block.'"

"Krantz's claims sparked a widely noted news item in the April issue of Scientific American that explored the history and impact of fractals and the Mandelbrot set, sometimes called "the most complex object in mathematics."

"My main difficulty with fractal geometry is that it is performed in an ad hoc manner, says Krantz, author of five books on mathematics. "The fractal gurus spew data out on a computer, then see what they come up with. This is entirely counter to the scientific method, which in mathematics is called the proof. There are no proofs in fractal theory, just pretty pictures."

"There is a noticeable lack of precise definitions in fractal geometry, as well as a dearth of theorems," Krantz contends. "There is no universally accepted definition of the term 'fractal.'" He says, "One notable difference between fractal geometry and calculus, which revolutionized eighteenth and nineteenth century science, is that fractal geometry has not solved any problems. It is not even clear that fractals are a theory at all."

"The trouble with any subject that relies more on computer output than on theory is that one has to think of something to say about it. Often the things that are said about fractals are: 'This looks like a gopher's hole.' It seems to me that if a subject is to be called a science, then it should be able to say more about it than this."

"The controversy over fractal geometry and theory of chaos goes deeper than mere academic jousting. The state of American education in science, mathematics and engineering education is precarious, by most estimates. And the educational pipeline—the K-12 school system, which booby traps scientists at an early age—is already drying up."

According to National Science Foundation figures, only 4.5 percent of graduating college seniors in 1990 will have bachelor's degrees in a science field. From this tinny pool, only 5 percent go on to earn Ph.D.'s in science, engineering or mathematics. In fractal geometry, for example, U.S. institutions awarded 1,400 Ph.D.'s in 1972, but only 750 in 1987. Of those, 350 were granted to foreign-born students.

"While fractal theory is wide-spread, there have been few applications for them," Krantz notes that the only use of fractals of which he is aware is for determining kidney surfaces in a George Lucas movie. "Some people say I'm off base, that I'm cutting off my nose to spite my face because the fractal supporters are doing a great service to popularize science," Krantz says. "It is good that more people are becoming exposed to mathematics, but the ideas have to be put in perspective."

"In fractal geometry, you use some mathematics to generate a picture, then ask questions about the picture which generates more pictures, then you ask more questions about the new pictures, and so on. You rarely, if ever, return to the original mathematical concepts. This sort of process is not far removed from taking a dozen monkeys with a dozen typewriters and eventually, if they live long enough, getting them to write Hamlet."

"The fractal controversy really is part of a larger malaise that I see affecting all of society today. The whole notion of the 'Quick Fix.' The fact that it takes a person a good 10 years of dedication and, often, deprivation, to become established in a discipline such as mathematics is in direct contrast to the attractive to young people anymore. Everyone wants gratification now. I see fractal geometry as the 'Quick Fix' in mathematics. It's easy, flashy and, as far as I can see, pointless."

Tony Fitzgerald

license plates stamped with logo are now offered Wusthof, a university faculty staff, students and alumni living in Missouri are eligible for collegiate license plates stamped with the university's logo. The plates, issued by the state of Missouri, are a special gift to the University of Missouri's "License to Learn" fund. A minimum of 450 gifts must be released before the state will apply your payment to the new plates. For more information about the logo's origin, visit the Missouri state hot line at (314) 751-4509. For a brochure, call (314) 889-5191.

Performing Arts holds auditions Auditions for four Performing Arts Department productions will be held from 7-11 p.m. Sept. 4 and 5. Two of the productions, "The Fifth Column" and "Flea in Her Ear," have large casts. "The Fifth Column" and "Flea in Her Ear," to be performed Nov. 9-11 and 18.

The department also is auditioning actors for two on-act plays, "The Fifth Column" and "Flea in Her Ear," to be performed Nov. 9-11 and 18.

All auditions will be held in the Mallinckrodt Center Drama Studio. For more information, call 889-5085.

Edition Susan Elsberry, 890-5294, Campus Box 1070, P72245CS at WUVMC Assistant editors: Andrew Cin, 889-3299, Campus Box 1070, P72245CS at WUVMC Carolyn Sturfeld, 889-5293, Campus Box 1070, P72245CS at WUVMC

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Performing Arts: Audition information is in Her Ear. "Flea in Her Ear" will be performed Nov. 9-11 and 18.

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**Edison Theatre**

jazz compositions. In addition to touring extensively, the consort has been artists-in-residence since 1989 at New York's Cathedral of St. John the Divine, the world's largest Gothic cathedral. Ireland's National Theatre, the Abbey Theatre of Dublin, will present three performances of "Perestroika" in Oct. 27 of the extravagant comedy "The Playboy of the Western World," distinguished by bold, innovative and "timeless" dances and pulsating live music, is sure to mesmerize audiences for the first performances of 1991.

Dean, who is known as the "re-inventor of spinning," "taps some of the most ancient, deep-seated movement impulses known to mankind ... a direct, powerful tug at our kinesthetic core ... and thus a visceral and immediate impact," says The Washington Post. This event is co-presented with Dance St. Louis.

On Feb. 1 and 2, "body musician" Keith Terry will present an evening called "Sound Proof." A jazz percussionist, Terry uses his body, raw vegetables, bouncing balls and electric fans to create music and rhythm. This evening also is co-presented with Dance St. Louis.

On March 20 and 22, "Perestroika" will come to Edison when the Moscow Studio Theatre performs on Feb. 22 and 23. The ensemble, which is making U.S. debut, will perform two different Soviet plays, "My Big Land" on Feb. 22, and "The Same Old Story" on Feb. 23. Both full-scale productions will be in Russian translated simultaneously into English through headphones.

On Oct. 17, a better musician and respected musicologist Joshua Rifkin will perform with the Bach Ensemble, a new group specializing in Baroque music on period instruments. On March 3 he will present an evening of Scott Joplin rags.

On March 22 and 23, The Acting Company, a New York-based internationally renowned repertory group, will present two evenings of Shakespeare. "Two Gentlemen of Verona," a spirited comedy about friendship, rivalry and romantic love, will be staged on March 22. "Romeo and Juliet," the most famous love story in the Shakespearean canon, will be presented March 23. The company is the touring arm of the John F. Kennedy Center for the Performing Arts.

The Lar Lubovitch Dance Company, a co-presenting company by Edison's "OVATIONs" series and Dance St. Louis, will take the stage April 26 and 27. Lubovitch, an internationally acclaimed choreographer and dancer, will honor Mozart's bicentennial by presenting works choreographed to the famous composer's music. Lubovitch recently choreographed a full-length ice-dancing version of "Hansel and Gretel" which was broadcast in the United States and Great Britain on the NBC network. He also did the musical staging for the Stephen Sondheim Broadway musical "Into the Woods," for which Lubovitch received a Tony nomination.

**The "OVATIONs!" season's grand finale will be a special family event by the Pickle Family Circus. The circus will present lively jugglers, the world's largest acrobats, wire-walkers and inspired clowning, for which it is famous, in four performances on May 3, 4 and 5.

The San Francisco-based Pickle Family Circus was the first to create a one-ring intimate European style circus. A rascous band adds to the fun. "It's the kind of circus parents might want their kids to run away to," says NBC-TV journalist Jane Finline.

Single tickets to "OVATIONs!" events are $16 for the general public; $14 for senior citizens and Washington University faculty and staff, and $9 for students. Subscription rates for between 6 and 9 shows are $16 per ticket for the general public; $12 for senior citizens and faculty and staff and $8 per ticket for students. Subscription rates for single shows are $14 per ticket for the general public; $10 per ticket for senior citizens and faculty and staff, and $7 per ticket for students.

**Stage Left**

"OVATIONs!" also is premiering a new series called "Stage Left!" in the University's Leiden group founder.

"Stage Left!" also is premiering a new series called "Stage Left!" in the University's Mallinckrodt Center.

"Stage Left!" has both a directional and an artistic meaning," says Ivy Warshawski, Edison Theatre managing director. "We originally chose the name because the studio is physically down the hall and to the left of the main stage. But the term also refers to the types of events we will offer, a little to the left of center, somewhat off-beat and non-traditional. It will be a nice complement to both the "OVATIONs!" series and the Performing Arts Department offerings."

The Leiden English Speaking Theatre, in a special engagement from the Netherlands, will present "Zoo Story." Edward Albee's provocative and powerful play, at 8 p.m. Sept. 6, 7 and 8 and at 2 p.m. Sept. 9. The production will be directed by Henry I. Schvey, Ph.D., chair of the Performing Arts Department and a visiting scholar to the Leiden group founder.

"Stage Left!" is a raucous band adds to the fun. "It's the kind of circus parents might want their kids to run away to," says NBC-TV journalist Jane Finline.

Single tickets to "Stage Left!" are $10; $8 per ticket for senior citizens and faculty and staff, and $6 for students. Subscription rates for all three events are $6 per ticket for general public, $7 per ticket for senior citizens and faculty and staff, and $5 per ticket for students.

The "OVATIONs!" for young people series has expanded to seven events from four last year. The highly successful series, now in its third season, will feature one-hour performances specially geared to children ages 6-12. The audience will be encouraged to sing, clap, stomp and even howl along with the artists for an afternoon of good theatre and good fun.

The program will feature the Lar Lubovitch Dance Company on April 26 and the Pickle Family Circus on May 4. All "OVATIONs!" events are at 2 p.m. Single tickets are $7 per show. Subscription rates for between three and seven performances are $5 per ticket.

For more information or to subscribe to any of the above series, call 889-6543.

**Woman's Club has half-price memberships**

For the second consecutive year, the Woman's Club of Washington University is offering half-price memberships to women not affiliated with the University.

The regular yearly membership fee for the 1990-91 academic year is $10; newcomers will pay $5.

The Woman's Club, a local organization comprising women faculty and staff and wives of faculty and staff, supports cultural and educational programs, and is a member of the National Association of Governing Women. The club sponsors cultural and educational programs and arranges for members to meet and network.

When you join, the membership fee includes a membership card, an annual directory, a library loan card and a subscription to the newsletter "The Membership News." The club also offers a wide range of social activities, including luncheon socials, tea parties, shopping trips, book discussions, workshops, classes, children's programs, film and theater nights, and an annual spring luncheon.

For more information, call Tsu Uganda, 721-3147, or Jill Hill, membership chair, at 502-4411.

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Faulty gene

Researchers identify one cause for Sudden Infant Death Syndrome

Sudden infant death syndrome (SIDS) claims about 9,000 lives annually in the United States and has frustrated a 40-year effort to stop it. Now, Arnold W. Strauss, M.D., of the School of Medicine, believes he has found a cause.

"MCAD deficiency occurs in about one of every 5,000 children, so it's not uncommon," says Daniel P. Kelly, M.D., an instructor of medicine at Washington University and one of Strauss' collaborators. When a child is identified as MCAD-deficient, family members are screened, but Kelly and Strauss would prefer a screening test that is more readily available. That will require uncovering the precise genetic mechanism by which the faulty enzyme operates.

"How that mechanism is complicated and elusive. The gene that codes for MCAD does not appear to be the culprit in this case. 'In many inherited enzyme deficiencies,'" says Strauss, "we find that the gene stops the protein's production early. The resulting unstable protein degrades before it can work. Here, the problem is something else. The gene in deficient patients and in normal controls appears to be identical.'"

So far, the investigators have traced the trouble to the process by which precursor RNA is "spliced" to become messenger RNA. The procedure, simply put, goes like this: The gene, made up of informational units, or exons, within the DNA molecule is copied first into precursor RNA via a process called transcription. Most genetic flaws occur in the gene and are passed along into the first copy. The precursor RNA is then "spliced." In this step, only the informational bits are preserved; non-instructive elements (introns) are eliminated. The result is a more compact version of the recipe for a protein, called messenger RNA.

"Finally, the cell extracts the cell nucleus with the instructions for making the protein. In this case, the protein is MCAD. By working backward from MCAD to the raw material, or precursor RNA and then to its normal precursor RNA, the researchers have found the focus of the problem. The deficiency may be something other than a splicing problem, and the product is "a mess," Strauss says.

New class of disorders

For the moment, MCAD deficiency stands as the lone example of what may be a new class of genetic disorders — those attributable not to the genes themselves but to the protein chain that is produced. "A mutation on the gene stops the protein's production early. The resulting unstable protein degrades before it can work. Here, the problem is something else. The gene in deficient patients and in normal controls appears to be identical."

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The MCAD deficiency is the first of what will probably be many causes for the syndrome called SIDS.

The 15 splicing errors recorded have all been seen in the enzymes of one family: a Dutch father, the two children he lost to SIDS and two surviving siblings. Their cultured skin cells provide the raw material for much of the research. Each error produces a different form of the enzyme, the degree of their effectiveness varies with the severity of the flaw.

In about half of the altered proteins, the affected regions include that portion of the molecule called the transit peptide (proteins are strings of peptides), the element responsible for gaining passage through the membrane into the mitochondria where the enzyme works. Kelly says errors in the transit peptide portion prevent the enzyme from working at all, because it can't get to the job site. Splicing errors elsewhere only reduce the enzyme's efficiency.

Current research is directed at finding the source of the splicing problem while also seeking other possible causes. Is there a gene flaw not yet found? Why is this gene misspliced when others in the same patient are copied precisely? The suggestion is that among the many proteins that operate in the splicing process must be at least one that is gene-specific. "But that's a hunch on the frontiers of what we know," Kelly acknowledges. Autopsies of infants claimed by the deficiency show fatty infiltrations of the liver and abnormal mitochondria (perhaps as a result of working with strangely configured enzymes), nothing more.

The MCAD deficiency is the first of what will probably be many causes for the syndrome called SIDS.
$400,000 to fund Balfe's research on colorectal cancer

The National Cancer Institute has awarded a radiologist at the School of Medicine a $400,000 grant to assess the diagnostic effectiveness of new imaging techniques in primary and recurrent colorectal cancer.

Dennis M. Balfe, M.D., associate professor of radiology at the School of Medicine's Mallinckrodt Institute of Radiology, will lead a team of researchers to study methods of imaging colorectal cancer.

"Colorectal cancers could be treated differently if we knew the extent of the disease," says Balfe. "Many times patients undergo radical surgery which could have been avoided if they had had an earlier diagnosis. Therefore, by studying the various stages of colorectal cancer, we will be able to determine the kind of treatment the patient will need."

Colorectal cancer is the most common cancer of the gastrointestinal tract, with approximately 140,000 new cases diagnosed annually.

Balfe, principal investigator for the St. Louis team of the multicenter study, is also investigating the spread of cancer from the colon to the liver, looking for a way of staging the liver in colorectal cancer patients and evaluating the ability to make accurate follow-up.

Other institutions conducting research in the multicenter study include New York University, University of Michigan, Johns Hopkins University, and the University of Washington in Seattle.

Balfe, known for his work in gastrointestinal radiology, has published more than 50 articles and contributed to more than 15 book chapters.

Unrestricted grant is awarded to Ophthalmology

The Department of Ophthalmology and Visual Sciences at the School of Medicine has received an unrestricted grant of $50,000 from Research to Prevent Blindness (RPB), a voluntary organization committed to the financial support of eye research.

The award was announced by Henry J. Kaplan, M.D., professor and head of the Department of Ophthalmology and Visual Sciences.

"The unrestricted grant is very important to us," says Kaplan. "Because it doesn't restrict the department's ability to provide support where it is most needed." He noted that RPB is one of the few organizations that provides unrestricted funds.

Washington University has one of the world's largest research programs devoted to ophthalmology and visual science. The department is known for its expertise in retinal neurobiology and in the past year has been expanding the research faculty to develop center of expertise in immunology and molecular biology. Research projects include studies of glaucoma, retinal degenerations, crossed-eyes in children, amblyopia (impaired vision without eye disease) and diabetes (eye disease), retinal transplantation, and the ocular manifestations of diabetes and other systemic diseases.

During the past 29 years, the ophthalmology department has received $601,900 in RPB funds. RPB is awarded to the ophthalmology department has received $601,900 in RPB funds.

Interferon therapy cures hepatitis B in 11 patients

Robert P. Perrillo, M.D., principal investigator of the multicenter hepatitis B study, and research nurse Carol Bodicky successfully used interferon to treat patients with chronic hepatitis B.

"I'm cured," Janet Kieffer, happily told reporters who recently interviewed and physician Robert P. Perrillo, M.D., about her battle with chronic hepatitis B.

All patients in the three-year-long study were conducted in response to a multicenter study directed by Perrillo and published in the Aug. 2 issue of the New England Journal of Medicine.

In the study, Perrillo and colleagues report curing 11 patients with chronic hepatitis B and inducing remission in 27 others who were treated with an intensive course of interferon therapy. Kieffer, a nurse from Arkansas, was a study participant who believes she contracted the virus from a patient before surgical gloves were mandatory. The virus is spread through blood to blood contact.

Chronic hepatitis B is a serious, debilitating, infectious liver disorder that predisposes to cirrhosis and can be fatal. There has previously been no cure for the disease. An estimated 1 million Americans are chronically infected with the hepatitis B virus and the risk of primary liver cancer is at least 100-fold greater in these individuals.

The multicenter study included trials at 12 research centers and is the first large, controlled study of its kind.

"We can cure people who might otherwise have a lifelong infection with serious consequences if we get to them early enough," says Perrillo, an associate professor of medicine at the School of Medicine and director of gastroenterology at the Veterans Administration Medical Center in St. Louis.

The research was supported, in part, by grants from the Public Health Service and the National Institutes of Health. Interferon was provided by Schering-Plough Corp., New Jersey.

Street party will kick off no-smoking policy

Medical center employees and staff are invited to a luau-themed street party Sept. 10 to celebrate the first day of the medical center's smoke-free policy.

The Breath Easy Celebration will be held from 11 a.m. to 2 p.m. on Audubon Avenue in front of the Clinical Sciences Research Building.

The party is open to employees at the School of Medicine, Barnes, Jewish, and St. Louis Children's hospitals.

There will be free food, games, prizes and T-shirts, along with a dunking booth and other entertaining and informational activities. Acrobat dancers from the Maryland Fitness Center will perform, and several local and national organizations will participate in various activities.

We are celebrating the culmination of the joint efforts of the medical center institutions to provide a smoke-free environment for employees and patients," says Carol Moser, member of the medical center's smoke-free committee, which organized the event.

In conjunction with the new smoking policy, which prohibits smoking in medical center buildings, on-site smoking cessation classes are being offered. Two classes are running now and others will be held as needed. Designated outside smoking areas at the School of Medicine will be announced.

For more information about smoking cessation classes or location of designated smoking areas, contact Carole Moser, 962-6824.
Robins named honorary fellow of Royal College

Psychiatric epidemiologist Lee N. Robins, Ph.D., of Washington University in St. Louis, has been named an honorary fellow of the Royal College of Psychiatrists.

Robins was among five scientists worldwide to receive the Royal College's Annual General Meeting in England last month. It is the highest honor given by the Royal College, the agency authorized to certify psychiatrists in the United Kingdom and publish the British Journal of Psychiatry.

Robins, professor of sociology in the department of psychiatry, is internationally recognized as a leader in studies of mental disorders in children. He is the author of Deviant Children, published in 1974, which has been considered a model for more recent research.

Much of Robins' work has centered on the effects of drug use, alcoholism and other familial disorders on child development. Most recently, her work has dealt with Vietnam veterans and the epidemiology of adult psychiatric disorders. Scientists also developed the DIS (Diagnostic Interview Schedule), a tool for diagnosing specific mental disorders in large populations.


She has been a fellow of the American Psychiatric Association, the American Institute of Medicine and the American College of Epidemiology.

Robins came to Washington University in 1954. She received her undergraduate education at Radcliffe College and her Ph.D. from Harvard University and Radcliffe.

Scholarship fund set up in memory of instructor's child

Christine Feeley, Ph.D., instructor of occupational therapy in the School of Medicine's Program in Occupational Therapy, and her husband, Kevin, have set up a student scholarship fund in memory of their son who died in June.

Six-year-old Brendan Feeley was killed when a tree limb fell on a parked van where he was seated. He was on a family camping trip.

The memorial, The Brendan Feeley Minority Student Scholarship, Program in Occupational Therapy, 4066, 4557 Scott Ave., St. Louis 63110.

Arthritis exercise classes benefit inner-city residents

Odessa Delfers has complained of being a little stiff lately, but she fights it off by picking up the PACE. Chambers, 84, shoves aside her aluminum walker so she can march in place from her chair, roll her fingers into fists and turn her head from side to side — movements that qualify as a hefty workout for someone stooped with age and arthritis.

But Delfers doesn't mind. In fact, she looks forward to these regular workouts which spark her energy and enthusiasm, and keep her moving. The program Delfers participates in is called PACE (People with Arthritis Can Exercise). It was developed four years ago specifically for those who suffer the stiffness and pain of arthritis.

Kathleen Haralson, a physical therapist and associate director of the Washington University School of Medicine Regional Arthritis Center, co-authored the program and has been instrumental in launching it locally. She has established one program in the inner city and wants to set up more.

Haralson assists for several weeks to get the program going, then leaves it in the hands of those who need it most, such as the residents at the St. Louis Housing Authority, where Delfers resides.

Every Monday and Friday morning, Delfers and nine other men and women gather in the housing author-

ity senior center on Kingsbury to spend about 20 minutes exercising with Haralson. Though there is the first inner city program outside others exist in rural areas around St. Louis. Haralson chose this site because it was accessible for residents and because the program was solely needed.

"These are people who fatigue, just getting to class, they get little activity," Haralson said of the residents she works with. "But they learn and follow well, and I think we're beginning to see improvements in stamina." Elmina Batchelor, a registered nurse and health coordinator for the housing authority, was instrumental in setting up the program and says residents are eager to participate.

"They look forward to it," Batchelor said of the participants, who range in age from 65 to 85. "All those here are very cooperative and want to participate. They tell me they feel better because of the program."

"I have discovered exercise makes me feel better," Estepp said.

Researchers still need volunteers for prostate cancer study

Researchers are still seeking men over the age of 55 who have a history of prostate cancer, or a promising new blood screening test for prostate disease.

Currently 3,500 volunteers are participating in the project, an additional 3,500 are needed.

The study is being conducted at Barnes Hospital, Jewish Hospital and the School of Medicine. It is directed by William J. Catalona, M.D., chief of the Division of Urologic Surgery. Funding is provided by Hybtech, Inc., of Cambridge, Mass.

The blood test, which examines the level of prostate specific antigen, may be the most promising screening test yet developed for prostate cancer. Catalona says virtually all males have a low level of prostate specific antigen, he explains. This antigen protein is formed in the prostate gland and may become mildly elevated in men who have benign enlargement of the prostate gland or chronic infammation of the gland. Elevated levels also may be present in early stage prostate cancer.

In 1989, prostate cancer surpassed lung cancer as the most common cancer diagnosed in American men over 50. Unfortunately, by the time the diagnosis is made, more than one-third of men have advanced cancer, according to Catalona.

"The blood test now appears to be potentially the best screening tool for detecting prostate cancer at an early stage, when the results of treatment are more favorable," he comments. "If this study demonstrates that the test is useful, society will realize substantial savings.

For the study, Catalona needs males aged 55-75 who have no diagnosis of prostate cancer. Participants will have approximately one-half ounce of blood drawn from an arm vein every six months for five years. The blood test will be performed free of charge. Participants also will be required to fill out a brief, yearly questionnaire asking whether a diagnosis of prostate cancer has been made since the last blood test.

Participants whose antigen levels are elevated will be advised to undergo a rectal examination and an ultrasound scan of the prostate gland. If any abnormalities are found on either of these examinations, the patients will be advised to undergo a needle biopsy of the prostate gland. If the blood test is found to be negative, follow-up examinations will be performed.

"There is an urgent need for earlier detection of prostate cancer," Catalona comments. "Earlier detection would reduce the cure rate and improve the quality of life of patients with prostate cancer."

For more information, call Barnes Hospital Physician Referral, 362-8677.
Health insurance annual open enrollment begins in October

The annual open enrollment for health insurance will be conducted in October. During the open enrollment period, you must be an employee of Washington University. If you are not participating under one of the University's health insurance plans, you may enroll during the open enrollment period.

The following rules apply if enrollment for health insurance is for the first time. You may enroll in one of the Health Maintenance Organizations (HMO's), Partners or Group Health Plan. You may also enroll in the new major medical plan. Both the HMO's and the major medical plan will begin coverage effective Dec. 1, 1990.

However, to enroll in Blue Cross-Blue Shield, you must wait the required time period specified in the plan's health statement. Covered will be on the first of the month following the Blue Cross-Blue Shield approval date. Blue Cross-Blue Shield may also impose a one-year waiting period for certain major work such as orthodontic or periodontic procedures.

Major medical plan

The major medical plan is designed to cover the gaps not covered in the major medical plan. The three-month $300 deductible will be eliminated from the plan. The annual open enrollment begins in October. New rates and any plan changes will be published at the time of open enrollment.

Dental insurance is included in open enrollment. Employees (and dependent) not previously enrolled may enroll subject to a three-month waiting period. If you are in the dental plan, you will also have a two-year waiting period for certain major work such as orthodontic or periodontic procedures.

A new major medical plan is being introduced in October. This plan, called EXCEL PLUS plan, the premiums will be less.

From swimming to squash

Athletic Complex offers recreational variety to students, faculty and staff

Washington University students, faculty and staff with valid I.D.'s are eligible to use the Hot line health plan. All full-time day school students, faculty and staff, as well as professors emeriti and retired staff, are not charged for this privilege. Other eligible users such as families of faculty and staff, part-time students, spouses of day school students, evening school students and alumni must purchase a membership card.

Faculty, staff and full-time day school students are eligible to purchase family memberships for immediate family members such as a spouse or children residing at the same address. The family membership fee is $45 for the first family member and $5 for each additional member.

Membership cards must be obtained for each eligible family member. I.D. cards, Social Security numbers and proof of age and residence for spouses and children must be presented at the membership office before family memberships are sold. Membership cards must be presented for admission to the Athletic Complex.

Children under 14 may use the facilities provided they are accompanied and supervised by a parent or legal guardian or are enrolled in a departmental program. University students, faculty and staff are permitted at designated times to bring one guest per day to the Athletic Complex. The sponsor must accompany the guest and is responsible for the guest's conduct. A guest pass, valid for one visit, is required. The fee is $5. Guest passes may be purchased from 8:30 a.m. to 4:30 p.m., Monday through Friday, at the athletic department's main office or at the medical school Cashier's Office from 9 a.m. to 4 p.m., Monday through Friday. In order to purchase a guest pass, you must have a valid University I.D. card.

The following hours are in effect during the academic year. Hours are subject to change. For more information on scheduled activities or building hours call the 24-hour information hot line at 889-4705.

Athletic Complex: Monday through Friday, 6:45 a.m.-10 p.m.; Saturday, 10 a.m.-5 p.m.; and Sunday, noon-9 p.m.

Main Office: Monday through Friday, 8:30 a.m.-5:15 p.m.; and Saturday and Sunday, 8 a.m.-5 p.m.

Intramural Office: Monday through Friday, 9 a.m.-6 p.m.

Tao Tennis Office: Monday through Sunday, 7 a.m.-9 p.m.

Equipment Room: Monday through Sunday, open regular building hours.

PERSONNEL NEWS

PROFESSIONAL JOB SEARCHES ARE UNDER WAY

Washington University is conducting searches to fill professional positions on the Hilltop and Medical School campuses.

Director of Annual Giving

Washington University seeks a skilled and experienced individual to serve as director of Annual Giving for the School of Medicine. Candidates must have a college or university degree, three years development experience and the ability to use a computerized data base in implementing goals. Salary is commensurate with qualifications and experience.

Application deadline is Sept. 30, 1990. Send resume and salary requirements to: Ruth C. Dickinson, Assistant Vice Chancellor, Medical Alumni and Development Programs, Washington University School of Medicine, Campus Box 8949, 660 South Euclid, St. Louis, MO 63110.

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Harish C. Agraval, Ph.D., professor of pediatrics and neurology, presented three papers at the national-interna-
tional Conference on the Neurology of the Society of Neurochemistry. His topics were olivo-ponto-cerebellar degenerations, CNPase and phosphorylation of myelin-associated glycoprotein.

Edwin C. Andrews, assistant profes-
sor of experimental neurology, spoke 
from across the country who were
selected to participate in the Socrates 
Sculpture Park's 1990 outdoor sculp-
ture exhibition. The Socrates Sculp-
ture Park is a 4 1/2-acre waterfront park 
on the East River in New York City. The 1990 outdoor sculpture program will end with an exhibition of site-specific sculptures. The exhibition opens in October.

Leonard Berg, M.D., professor of neurology at the University of Iowa College of Medicine, presented his research at a recent meeting of the American Society for Clinical Investigation.

Isaac Bonish, M.D., associate profes-
sor of clinical ophthalmology, was a lecturer at a recent meeting of the American Society for Clinical Investigation. His presentation was titled "The Diagnosis of Alzheimer's Disease." He also was a faculty member for the American Academy of Ophthalmology special focus course on "Lasers Photocoagulation for the Posterior Segment." In addition, Dr. Bonish was a visiting professor at the University of Minnesota and at the Latino American Ophthalmology Course in Santurce, Puerto Rico, where he lectured on diabetic macula edema and age-related macular degeneration.

Karen L. Tokarz, M.D., professor of law and director of clinical education, has been awarded the first annual President's Award from the Women Lawyers Association of Greater St. Louis for contributions to the advancement of women in the legal profession. She was interviewed by Bonita Wedner, M.D., associate professor of clinical ophthalmology, at the MacArthur Research Laboratory in Honolulu, Hawaii. At the same meeting, M. Gilchrist, M.D., associate professor of clinical ophthalmology, presented a lecture titled "The Affect of Acute Leukemia on Diabetic Retinopathy." Emma Kafalenos, Ph.D., lecturer in comparative literature, delivered papers at two conferences at the annual meeting of the American Comparative Literature Association in University Park, Pa., where she spoke on "Fabulas, Sphintes, and Mimes en el Rey, imitaciones de la "Troya" en el "Peplos." At the International Congress of 17th and 18th Century French Studies in Iowa City, Iowa, she presented "The Ontology of History of the First French Consciousness-Class of La Maison de rendez-vous."

John C. Morris, M.D., assistant professor in neurology and pathology and associate neurologist-in-chief at Jewish Hospital, was inducted as a Fellow of the American College of Physicians in Chicago, Ill. He also was the keynote speaker at the Alzheimer's Disease Symposium at the Michael Reese Medical Center in Chicago. His presentation was titled "Advances in the Diagnosis of Alzheimer's Disease."

Joanne Mortimer, M.D., associate professor of medicine, co-wrote an article that appeared in the March issue of Clinical Pharmacology. The article was titled "Antibiotic Therapy for the Febrile Neonate." M. Douglas Black, Ph.D., assistant professor of the college of pharmacology at the University of Pennsylvania in Philadelphia, co-wrote the article with Mortimer.

Powell Niland, Ph.D., professor emeritus of management, recently presented a paper titled "Planning for the Future: What Happens When the Planning Forum's 1989 Case Study Organizations Fail?" at the University of Missouri "US-J
ese Joint Venture: New United Motor Manufacturing (NUMMI, Inc.)," published in the January/February 1989 issue of Planning Review, was one of the new journal's honorarium recipients. The winning studies were announced at The Planning Forum's annual conference in Washington, D.C.

R. Joseph Olk, M.D., associate professor of ophthalmology, was a visiting professor at the University of Washington in Seattle.

The use of physical and mental health services by some 15,000 alcoholics is being studied to determine whether completion of alcohol treatment program reduces the need for health care. Cynthia Cook, D.D.S., an assistant professor at the George Washington University Faculty of Dentistry, and associate professor of family practice at the George Washington University School of Medicine, co-authored the study. The National Institute on Alcohol Abuse and Alcoholism is funding the research at $505,000 for two and one-half years. The study involves a random sample of some 7,400 alcoholics who completed a Depart-
ment of Veterans Affairs (VA) Alcohol treatment program in 1987 and another sample of 7,400 alcoholics who did not go through treatment. Using the VA's national database, Coon and her colleagues are examining the effects of these veterans' department on alcoholism and their discharge records for the three years before and three years after 1988.

Measures of health-care use include frequency of hospitalizations, total length of stay, and number of outpatient clinic visits.

"The bottom line is, if health-care use decreases after alcohol treatment, then this kind of treatment may be more effective than simply telling people what to do," says Cook. "If this does not happen, we have already accomplished alcohol treatment have fewer mental and physical health needs than alcoholics who don't go through treatment, the results will have major policy implications for both the VA and the private sector." The two other researchers are Brenda B. Porrill, associate research scientist at the Center for Health Services Research at the University of Iowa College of Medicine, and Richard S. Greenhouse, director of the Department of Psychology at the Institute of Brain Research at the University of Michigan.
Two new health service directors named

The Hilltop and the School of Medicine campuses both have new health service directors, effective July 1.

Robert L. Loefler, M.D., attending physician in the emergency department at Jewish Hospital in 1984, has been appointed an endowed professorship at the John E. and Mary Eugenia Lafferty School of Business Administration. He is a graduate student in business administration in his research and teaching.

As a former senior fellow at Baylor Medical Center in Texas while at Yale, Dyvig is an editor of the Review of Financial Studies and an associate editor of the Journal of Financial Intermediation. He has published many articles and presented papers at publishing journals in addition to two college textbooks. He received his bachelor's degree in biology in 1977 from the University of Michigan.

Loeffler and Lazarus succeed Mary B. Lazarus, M.D., an attending physician at Jewish hospitals and a physician with Student Health Service, which is the Medical Campus Health Service director.

Lazarus graduated from the University of Kansas, and her master's in biological sciences, health administration, and her master's in public administration.

Rozensky graduated from Purdue University in 1978 with a bachelor's degree in business administration and her master's in public administration.

Robert L. Loefler

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Graduate student is among 10 in nation to receive Mercury Seven scholarship

Kevin Scott Ruland, a graduate student in the Department of Systems Science and Mathematics, is one of 10 young science scholars in the nation to receive a prestigious scholarship.

The non-profit Mercury Seven Foundation was created in 1984 by the six surviving members of America's original seven astronauts and Betty Grimsom, widow of the seventh. The astronauts are M. Scott Carpenter, L. Gordon Cooper, Jr., John H. Glenn, Jr., Walter M. Schirra, Alan B. Shepard, Jr. and Donald K. Slayton. Shepard is the foundation's president.

The foundation's goal is to strengthen the U.S. position in science and technology by awarding scholarships to third- and fourth-year undergraduate students and graduate students who have demonstrated special characteristics of mental ability, self-discipline and high creative drive in their chosen science field. Each scholarship is worth $7,500.

Jasper, Clayton promoted in public affairs

Judith M. Jasper has been promoted to executive director of university communications and Donald Clayton has been promoted to executive director of medical public affairs at Washington University.

Jasper succeeds Debbie H. Hoke, who has taken a leave of absence for personal reasons, and Donald Clayton succeeds Joseph J. d'Alonzo, who has been appointed to a new position.

Jasper also has worked in public affairs at the Vanderbilt University Medical Center in Nashville, Tenn., and the National Institutes of Health in Bethesda, Md.

Clayton graduated from the School of Medicine and the School of Public Service at Marquette University. He has served as director of public relations and marketing in the School of Medicine and as executive director of the Washington University Office of Public Affairs.
National attention is given to a photo that ran in the June 17 issue of The New York Times, Kenneth P. Lorton, center, Ph.D., associate professor of physics, Tennessee State University, whose paper on the fusion of gas discharges was part of the 10 papers presented at the American Physical Society meeting in Los Angeles recently. The results of his work will benefit generations of students. "I am proud to have made this discovery," said Lorton.

In another development related to smoking cessation, the University's Center for Health Behavior Research received a grant totaling $1 million to develop a neighborhood-run smoking cessation network in a predominantly black community in St. Louis. The grant, awarded by the National Heart and Lung Institute, will provide $370,000 a year for three years to fund a collaborative project between the University, Grace Hill Neighborhood Services and the Missouri Department of Health. The center's director, Edwin B. Fisher, Ph.D., associate professor of psychology, is directing the program.

Herbert F. Hitzeman Jr., junior, vice chancellor for health affairs, announced the naming of the hall that houses our students." Hitzeman is a 1993 graduate of Washington University Medical School.

Viktor Hamburger, Ph.D., Edward Mallinckrodt Distinguished Professor emeritus of biology, retired the 1990 Karl Spencer Lashley Award from the American Philosophical Society in Philadelphia, the nation's first learned society that traces its roots to the philosopher, inventor and statesman Benjamin Franklin.

Two new members have been elected to the Board of Trustees: Thomas H. Jacobsen, chairman, president and chief executive officer of Mercantile Bancorp Inc. and Mercantile Bank of St. Louis N.A., and Edward E. Whittacre Jr., chairman and chief executive officer of Southwestem Bell Corp. Both are elected to four-year terms.

A memorial service was held June 17 in Graham Chapel for Thomas Steele Hall, Ph.D., a former dean of the College of Liberal Arts at Washington and a longtime professor of biology here. Hall died June 12 after suffering a heart attack at Barnes Hospital. He was 81.

Former Surgeon General C. Everett Koop visited the School of Medicine in late June to talk with experts on aging for an upcoming television program on health care in America. One hour of the five-hour series, scheduled to air on NBC in December, will be devoted to issues on aging.

Several University officials have been honored, including: Thomas A. Harz, director of purchasing and general services, received the additional title of associate vice chancellor. At the School of Medicine, Glenda K. Wiman, executive director of the Office of Medical Public Affairs, has been named assistant dean for special programs.

In other appointment news, Carl D. Rhodes Jr., Ph.D., formerly an associate dean at the University of Texas Southwestern Medical Center in Dallas, has been named as an associate dean for graduate studies at the School of Medicine and associate dean in the Graduate School of Arts and Sciences.

Edward E. Whitacre Jr., chairman and founder of the engineering firm William Tao & Associates Inc., received the University's prestigious William Greenleaf Eliot Society "Search" Award during the society's annual dinner. The Search Award is presented annually by the Research and Development Division of Alcon Laboratories Inc. to an individual who has made significant contributions to medical research.

The establishment of a smoke-free environment at the Washington University Medical Center and the retirement of several high-ranking officials were among the news events announced during the summer. Below is a recap of the major news stories that appeared in the June, July and early August issues of the Record.

• The School of Medicine is joining Barnes, Jewish and Children's hospitals in instituting a policy that will provide a smoke-free environment throughout the Washington University Medical Center, effective Sept. 10. In conjunction with the new smoking policy, on-site smoking cessation classes are being offered.

• In another development related to smoking cessation, the University's Center for Health Behavior Research received a grant totaling $1 million to develop a neighborhood-run smoking cessation network in a predominantly black community in St. Louis. The grant, awarded by the National Heart and Lung Institute, will provide $370,000 a year for three years to fund a collaborative project between the University, Grace Hill Neighborhood Services and the Missouri Department of Health. The center's director, Edwin B. Fisher, Ph.D., associate professor of psychology, is directing the program.

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School of Medicine
Men's soccer Bears face another tough schedule

Like most coaches, Larry Kindbom is not predicting wins and losses for his football team. However, he is assuring Washington University followers that this year's gridiron squad will improve over last year's 4-5 group.

The numbers back up his claim.

Sixteen seniors and one graduate student add up to leadership, experience and confidence — qualities missing over recent years due to a roster deficiency of upperclassmen.

"The basis of our program lies in senior leadership," says Kindbom, the Bears' second-year mentor. "Senior leadership involves more than just talent and playing ability; it deals with team confidence and character.

"We have enough seniors who have been around for three years who have a special feeling about playing a final season. These people are going to be the basis of our days-to-day growing as a football team, and I think they've seen both sides of the coin — what it's like to fall short of their goals, and they've tasted what it's like to succeed and taste advancement. Having seniors who have seen both sides of the coin they like best — in a positive way — is very important. In the past, we've been a little too good..." — seven — which could lead to big numbers.

"We have the people, the experience, the talent and the playing ability; it deals with the leadership, but defense allowed just 113-6 yards per game — good enough to rank among the top 30 teams in NCAA Division III.

"The positive feeling which now emanates from captains Doug Storm, Lakewood, Ill., Steve McRae, Los Angeles, Calif., and the leadership, but defense allowed just 113-6 yards per game — good enough to rank among the top 30 teams in NCAA Division III.

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**CALENDAR**

**Aug 30-Sept 8**

**LECTURES**

- **Thursday, Aug 30**
  - Noon, Dept. of Surgery Transplant Seminar, "Cytokine Tryptophan Depletion and Regulation at the Late Pre-Effector Stage" by Brian Sziklas, associate professor of surgery, microbiology and immunology, Mayo Clinic, Rochester, Minnesota. Room 1120 University Medical Science Research Bldg.

- **Wednesday, Sept 5**

  - 4 p.m., Dept. of Physics Colloquium, "Quantum Electrical Engineering, The Quantum Mechanics of Submicronic Electronics" by Yaqian Fu, WU prof. of physics. Room 204 Crow Hall. Coffee will be served at 2:30 p.m. in Room 205 Crow Hall. For more info., call 889-6788.

- **Thursday, Sept 6**
  - 4 p.m., Dept. of Chemistry Seminar by Udo Schroeder, chemistry dept., U. of Rochester. Room 311 McMillen. For info., call 889-6530.

**MUSIC**

- **Thursday, Aug 30**
  - 12:00 p.m., WU Mixed Choir and Vocal Jazz Group Auditions. 10 Blewett B. For more info., call 889-5581.

  - 3-7 p.m., WU Chamber Choir Auditions. 8 Blewett B. For more info., call 889-5581.

- **Sunday, Sept 2**
  - 1:30-5 p.m., WU Wind Ensemble Auditions. Thursday, Sept 5, same time. For more info., call 889-5581.

- **Tuesday, Sept 4**
  - 7-7:30 p.m., WU Chamber Music Ensemble Auditions. 3 Blewett B. For more info., call 889-5581.

  - 7-10:30 p.m., WU Jazz Band Auditions. Tetoque Rehearsal Hall. To make an appointment or for more info., call 889-5581.

**EXHIBITIONS**

- **"Bookends: Artists' Explorations of Form and Content,"** including "artist's books" by John Simko and local artist Lela Darw. (An opening reception for this and two other shows will be held from 7 to 9 p.m. on Sept. 7, in the Gallery of Art. New York-based artist and photographer Taso Petropulos will give a lecture at the opening.) Gallery of Art, Steinberg Hall, lower gallery. Through Dec. 21, 4-9 p.m. Tuesdays through Fridays. (2-4 p.m. Sundays.) For more info., call 889-6788.

- **"Modern Fine Printing: The Black Art,"** features books published over the last century that show examples of fine printing. Through Oct 14. Special Collections, Olin Library. Library hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 889-5487.

- **"Ford Beckman Selects,"** features new works by Beckman, a New York-based artist, and selections by Beckman from the University's permanent collection, including works by William de Kooning and John Chamberlain. (An opening reception for this and two other shows will be held from 7 to 9 p.m. on Sept. 7, in the Gallery of Art. Beckman will give a lecture at the opening.) Gallery of Art, Steinberg Hall, upper gallery. Through Oct. 7, 10 a.m.-5 p.m. Tuesdays through Fridays. (Will be open on Mondays, same time, after Sept. 3.) 5-7 p.m. Tuesdays through Fridays. (Will be closed Sept. 1 and 2.) For more info., call 889-6453.

- **"Acquisitions of the '90s,"** showcases nearly 100 works donated to the Washington University Gallery of Art. Open to the campus community. For more info., call 889-6453.

- **"The Life of Hemingway,"** by Robert E. Allen, chairman and chief executive officer of American Telephone and Telegraph Co., will deliver the keynote lecture Oct. 17 in Edison Theatre for "Ernest Hemingway: The Man and the Myth," a four-day conference to be held Oct. 17-20 at Washington University. This conference will address the Hemingway mystique. An editorial board member of the Hemingway Review, Reynolds has written six books and numerous articles on Hemingway, including Hemingway: The Furt Years (1989). Reynolds, a professor of graduate studies in the English department at North Carolina State University, received a Pulitzer Prize nomination for his 1986 biography, The Young Hemingway.

  - **Friday, Sept 7**
    - Noon, Women's Volleyball. WU vs. St. Louis U. Field House Gym.
    - 5 p.m., Women's Volleyball. WU vs. Northwestern College. Field House Gym.

**FILMS**

- **Tuesday, Sept 4**
  - 7 p.m., Dept. of Asian and Near Eastern Languages and Literatures Japanese Film Series, "Tampopo," directed by Jiro Satani, with English subtitles. Room 110 Malley Hall. Free. For more info., call 726-4449.

**SPORTS**

- **Saturday, Sept 1**
  - 7 p.m., Women's Volleyball. WU vs. St. Louis U. Field House Gym.

- **Friday, Sept 7**
  - 7-9 p.m., University College Writing Assembly Series — continued from p. 1

  - **Assembly Series — continued from p. 1**

  - **Tuesday, Sept 4**
    - 7 p.m., Dept. of Asian and Near Eastern Languages and Literatures Japanese Film Series, "Tampopo," directed by Jiro Satani, with English subtitles. Room 110 Malley Hall. Free. For more info., call 726-4449.

**MISCELLANY**

- **Saturday, Sept 1**
  - Noon-2:30 p.m., Annual Hillel Picnic. Meet outside Shepley Hall at 11:45 a.m. to car pool.

- **Tuesday, Sept 4**

**CALENDAR Deadline**

The deadline to submit items for the Sept. 15-22 calendar of the Washington University Record is Aug. 31. Items must be typed and state time, place, price, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event, also include your name and telephone number. Send items to Andrew Cox, calendar editor, Box 1070, or to Andrew Cox, calendar editor, by electronic mail to p72245AC at WUVMC.