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Record

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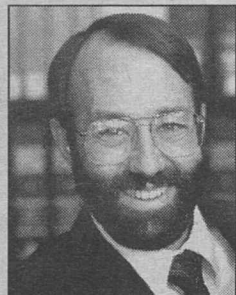
Vol. 20 No. 10 Oct. 26, 1995

Buyers beware: Consumers 'protected' by antiquated laws

Anyone who has ever tried to buy a car or make another major purchase knows it is a jungle out there and consumers are the prey.

Michael M. Greenfield, J.D., Walter D. Coles Professor of Law, has written a new guide that will help lawyers represent consumers in a legal area in which, historically, businesses have had the upper hand. The treatise, titled "Consumer Law: A Guide for Those Who Represent Sellers, Lenders and Consumers," was published in August by Little, Brown and Company.

Greenfield's treatise analyzes numerous areas of consumer law, including warranties, deceptive practices, credit insurance, credit reporting agencies and debt collection. In the course of researching his book, Greenfield became concerned about two issues: Many laws represent business interests more than consumer interests, and many consumer laws need to be updated and/or revised.



Michael M. Greenfield

Although numerous consumer laws have been enacted over the last few decades, many such laws are outdated or inadequate. "Consumers of the '90s are being protected by codes of the '60s and '70s," said Greenfield.

The Uniform Commercial Code (UCC), for example, was adopted almost 30 years ago. Although the 11-article code governs many consumer transactions in all 50 states, there are numerous transactions, such as car leasing and rent-to-own, that have only recently become popular and are not adequately addressed in the UCC.

Businesses set the rules

In addition, said Greenfield, when it comes to laws governing transactions between consumers and companies, businesses set the rules. Because they have a vested interest in this legislation, businesses work to have their representatives sit on committees for such groups as the National Conference of Commissioners on Uniform State Laws (NCCUSL). This group drafts consumer-protection laws for enactment by state legislatures.

People like Greenfield play the role of David to the Goliaths of assorted business interests involved in legislating consumer laws. Greenfield, author of another book on consumer transactions and numerous book chapters and articles, is one of a handful of legal experts representing consumer interests on these NCCUSL committees. He and others work to keep consumers' interests on the table and, in these days of deregulation, to fight for those laws that protect key consumer rights in areas such as product warranties and automobile financing.

Some laws 'counterproductive'

Greenfield notes, however, that some consumer-protection laws have gone too far. For example, the Truth in Savings Law, which attempted to regulate how banks compute interest and how they advertise it, is "so complicated that it's difficult to comply with and counterproductive."

Although this particular book is designed for professionals, there are many elements of consumer law the public would do well to know, said Greenfield.

Continued on page 8



Sophomore Jeff Carney gives his redesigned bicycle a test run while his classmates watch. The three-dimensional design class required students to build bicycles that could replace cars in modern society. Some bikes, for example, had storage compartments, and others featured protection from the elements. Carney rebuilt the bike with sophomore Tim Stoll.

Modern mobility

Students, community group collaborate on bicycles-of-the-future

A group of students in the School of Architecture earlier this fall were asked, in the simplest terms, to replace the automobile as a form of transportation.

And they had to complete this task using only paper and pencil, their minds, their hands, old bicycles and the expertise of mechanics from BicycleWORKS, a community-based program in which youths learn how to repair discarded bicycles in exchange for bikes of their own.

To the casual observer, the architecture students' finished products looked like a cross between science-fiction transportation modules and contraptions used by clowns in a circus gag. Nevertheless, the students did such a good job designing the bicycles-of-the-future that plans are being made to display some of the bikes in January in the Chicago Bicycle Museum on Navy Pier.

"The projects this year were very successful," said Lindsey Stouffer, lecturer in architecture and teacher of this three-dimensional design class. "The students have a lot of ownership in the bikes because it is their first chance to design and build something for real, not just in theory and on paper."

Eight architecture students, all sophomores, were asked to redesign four old bicycles in such a way that they could replace the car in modern society. One redesigned bicycle, painted in gold, had two wheels in the back and one in the front, a storage compartment and a canopy over the driver in case of inclement weather. The canopy even had a plastic windshield for the driver to see the roadway. This bicycle, now housed at BicycleWORKS, is so popular that BicycleWORKS head Roy Bohn said he can't keep the youngsters off it.

Another bicycle had a storage compartment sandwiched between two rear wheels that had independent suspension. A third bicycle reversed the three-wheel

concept, with two wheels in the front and one in the back. The fourth bicycle was a two-wheeler that had a steel storage compartment in the back.

On the last day of the five-week course, the students gave their bicycles a test run in the parking lot near Givens Hall. All of the bicycles-of-the-future rode well, the students said, but because they ran out of time, three of the four bicycles didn't have working brakes, meaning the drivers had to stop the contraptions with the rubber of their tennis shoes.

"The students have a lot of ownership in the bikes because it is their first chance to design and build something for real ..."

— Lindsey Stouffer

The project was a collaboration between the architecture school and BicycleWORKS, which donated the old bicycles. This is the second year BicycleWORKS and the School of Architecture have collaborated.

BicycleWORKS is an alternative-education program that began in 1988 in Bohn's garage. Through the program, youths discover that success results from goal-setting, and, in the process, they get vocational training and small-business entrepreneurship experience. (The participants sell the repaired bicycles through BicycleWORKS, which is located at 4102 Shenandoah Ave. in St. Louis.)

"BicycleWORKS was instrumental in making this design studio successful," said Stouffer.

The benefits flowed both ways, organizers point out. Not only did architecture students learn about bicycle me-

chanics from the youths and develop friendships with people from different backgrounds, the BicycleWORKS participants got a chance, many of them for the first time, to visit a college campus.

Derek Bise, a 13-year-old from last year's program, told Bohn the two neatest things for him were riding his bike down the Brookings Hall steps and teaching college students how to fix bikes.

The architecture students first had to draw their proposed bicycle designs on a two-dimensional surface — paper. Then they transferred their designs from the two-dimensional surface into a three-dimensional object — the bicycles. The students also were required to deconstruct the bicycle before rebuilding it, so the project required that they alter the frames of the bikes.

The students soon discovered that altering a bike frame is easier said than done. As Stouffer said, an idea for a design is not enough; the idea can change when confronted with reality.

The redesigned bicycles will be displayed over the next several months in various locations. For more information, call BicycleWORKS at 664-0828.

— Debby Aronson

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A late alumnus participated in an experiment that eventually resulted in a Nobel Prize

Medical Update

Workers' compensation influences outcome of carpal tunnel surgery

Surgery is the most common treatment for carpal tunnel syndrome, a nerve problem in the hands and wrists. But patients who receive workers' compensation may take more time off work and be less satisfied with their recovery than those who do not receive workers' compensation, a new study shows.

Carpal tunnel syndrome causes tingling, pain or numbness in the hands and wrists. People who engage in repetitive movements, such as grasping tools, scanning groceries and typing, are most at risk.

School of Medicine researchers surveyed 166 people who had undergone the surgery during an eight-year period. Eighty-one percent of those who had received workers' compensation reported residual symptoms, compared with 49 percent of those who had not. The former returned to work 12 weeks after their surgeries, whereas the latter took only three weeks to get back on the job.

"So our study suggests that the workers' compensation system in some way affects outcomes of carpal tunnel surgery," said Philip E. Higgs, M.D., assistant professor of surgery and of occupational therapy. Higgs was lead author of the study, which was described in a recent issue of the *Journal of Hand Surgery*.

A common problem

Carpal tunnel syndrome is one of the most common problems encountered by hand surgeons. It develops when a bone and cartilage tunnel in the wrist narrows and presses on the median nerve. The symptoms often are troublesome during the night, and they can prevent patients from carrying out even simple tasks.

A Bureau of Labor Statistics survey found that carpal tunnel syndrome accounted for 41,000 (or 1.8 percent) of the 2.25 million work-related injuries and illnesses among private industry employees in 1993. The syndrome accounted for 3.2 percent of work-related injuries and illnesses in manufacturing industries, where workers are most likely to engage in repetitive movements of the hands and wrists.

Repetitive-motion injuries caused longer absences from work — a median of 20 days — than any other occupational injury or illness, the survey found. So the syndrome is a significant item in the cost of workers' compensation, which pays the medical expenses and lost wages of workers who are injured on the job.

The National Center for Health Statis-

tics found that 32,000 carpal tunnel patients were discharged from non-federal hospitals in 1992. So Higgs and his colleagues wanted to determine whether the availability of workers' compensation influenced discharged patients' recovery. "In surgical circles, there has been a suspicion that people covered under workers' compensation have a different post-operative course than those who are covered by conventional insurance or are self-paying," he explained.

The researchers surveyed 166 people by phone, inquiring about job status and duties, pain, numbness and nocturnal symptoms. They chose the subjects at random from 1,700 patients who had undergone carpal tunnel surgery at the Washington University Medical Center between 1984 and 1992. The average time since surgery was 42 months. One-hundred-thirteen of the subjects had received workers' compensation, whereas 53 had not. The survey excluded people who were retired, unemployed, homemakers, had non-related medical problems or had undergone their surgeries within the previous 18 months.

Adverse effects

The two groups differed in job stability as well as in time off work and presence of residual symptoms, the survey found. Half of the workers' compensation patients had changed jobs since the surgery, and 65 percent of these attributed the change to carpal tunnel syndrome. Only one-quarter of the other patients had changed jobs, and only 14 percent of these blamed the switch on residual symptoms.

"So our data support what has only been implied in the past — that our workers' compensation system has some adverse effect on the outcome of this particular surgical procedure," Higgs said.

The study speculates on differences between people who receive workers' compensation and those who do not. First, the former may be convinced that carpal tunnel syndrome is an injury rather than a disease and therefore may expect to recover completely. Second, such workers may be tempted to prolong recovery in hope of further financial gain. Third, employees who receive workers' compensation may have more than one repetitive motion disorder, so a successful carpal tunnel surgery would not be expected to relieve all of their symptoms.

— Linda Sage

Andrew C. Chan named Pew scholar for his research on how T cells work

Andrew C. Chan, M.D., Ph.D., assistant professor of medicine and of pathology, has been named a Pew Scholar in the Biomedical Sciences.

The international scholarship is awarded by the Pew Charitable Trusts to support young investigators of outstanding promise who perform basic or clinical research related to the advancement of human health. The award provides \$200,000 of research support over a four-year period.

Chan's research has helped to explain how the immune system develops and functions. He studies T cells, members of the immune system that play a critical role in the body's defense against disease. These cells respond to invaders such as viruses and bacteria by becoming "active" and producing chemical signals to marshal immune defenses into action. The goal of Chan's work is to understand the cascade of steps involved in this response.

In 1992, Chan discovered and cloned a protein called ZAP-70, which he and others have since found to be essential for normal development and function of T cells. The discovery has led to a better understanding of a disease called severe combined immunodeficiency, or SCID, which occurs in people who are missing

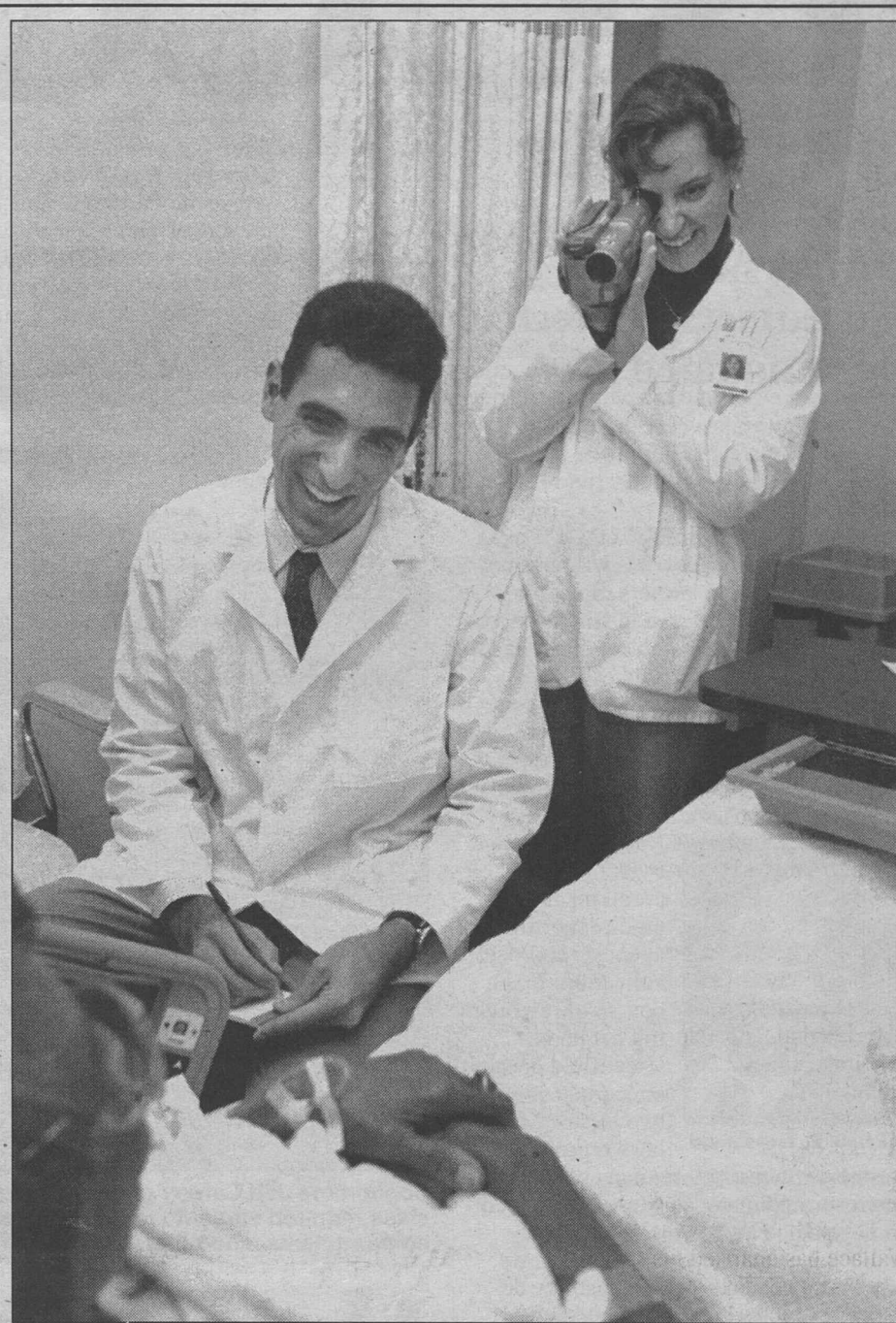
ZAP-70. SCID usually is lethal within the first year of life. In 1994, Chan's laboratory and two others simultaneously published the first scientific papers describing patients deficient in ZAP-70.

ZAP-70 provides a promising target to develop better therapies for autoimmune diseases such as lupus and rheumatoid arthritis and for transplantation rejection, Chan said. These diseases are caused by abnormal activation of T cells. The development of drugs that specifically block the function of ZAP-70 may not only provide a potent way to calm down these overactive T cells but also should have limited side effects compared with available therapies, he said.

Chan came to St. Louis from the University of California in San Francisco, where he was an assistant adjunct professor in medicine. He joined the Washington University faculty in 1994. He has been an assistant investigator of the Howard Hughes Medical Institute since 1994.



Andrew C. Chan



Shauna Lorenzo videotapes Larry Bercutt as he takes a patient's medical history. As part of the curriculum of "Clinical Medicine I," first-year medical students videotape each other and review bedside manner and interviewing techniques. The class is taught by Elliot E. Abbey, M.D., associate professor of clinical medicine.

Petrash receives funding for vision research

The Department of Ophthalmology and Visual Sciences has received two grants from the National Eye Institute of the National Institutes of Health to fund several ongoing research efforts.

J. Mark Petrash, Ph.D., associate professor of ophthalmology and visual sciences and of genetics, is the principal investigator of both grants. One five-year grant provides Petrash, who also is director of research in the ophthalmology department, with \$1.8 million to continue his research on the aldose reductase enzyme and its role in diabetic complications of the eye. Last year, Petrash and fellow researcher Florante A. Quiocho, Ph.D., Howard Hughes investigator and professor of biochemistry at the Baylor College of Medicine in Houston, were the first to crystallize the aldose reductase molecule in the presence of an inhibiting drug.

"We're learning how aldose reductase works in various tissues and how inhibitors block its function," Petrash explained. "This new grant will allow us to pursue our work with aldose reductase, clarify its role in diabetic complications and perhaps expand our understanding of how enzymes evolve. The results could be substantial because aldose reductase is a model for a whole family of enzymes."

The other grant is a five-year extension of a Core Grant for Vision Research that helps fund the work of 32 investigators at the School of Medicine. The National Eye Institute will provide \$1.8 million to the department during those five years. The grant is one of 20 Core grants in the United States. Washington University investigators working under the Core grant umbrella published more than 170 papers in peer-reviewed journals during the last five years.

"The Department of Ophthalmology and Visual Sciences has had this grant for

17 years now," Petrash explained. "I think its renewal confirms the world-class nature of the research that's ongoing at Washington University, as well as the productivity of the faculty involved in vision research on this campus."

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Washington People

Wallace dissolves Michelangelo myths

In a scene from the 1965 film "The Agony and the Ecstasy," Michelangelo, played by Charlton Heston, escapes to the marble quarries of Carrara, Italy, to sort out his frustrations with his first attempts at painting the Sistine Chapel ceiling. He rises from a deep sleep and slowly steps into a clearing, wide-eyed, searching, as if he were experiencing the world anew. A golden sunrise beckons his gaze heavenward, and in those first few moments, divine inspiration strikes. Billowy cloud formations of finger-like projections meet in a crescendo of celestial strains. The creation of Adam never looked so ... so ...

"Hokey," said William Wallace. "But in many ways, once you are in these extensive Alpine mountains, you see the grandeur and sublimity translated into Michelangelo's works. At one point, the artist declared that he wanted to carve the whole mountain into a colossal figure. The experience of going there, in part, is to see why."

Wallace, Ph.D., associate professor in the Department of Art History and Archaeology, has visited the quarries at Carrara, the most famous and productive in all of Italy, some 20 times. Excavated nonstop since the first century, these mountains not only supplied Michelangelo with his materials, said Wallace, but also provided him a spiritual retreat.

Through the years, Wallace has quarried his own brand of materials in an effort to lend new shape and definition to Michelangelo and his work. He has mined the riches of the Florentine archives; spent a sabbatical year as a fellow at Villa I Tatti in Florence (the Harvard University Center for Renaissance Studies); and conferred with international art experts on the Sistine restoration.

'The Genius as Entrepreneur'

Dissolving the myth that Michelangelo was a cloistered genius incapable of collaborating with others, Wallace has shown that the artist operated his business much like the chief executive of a small to mid-size company. Michelangelo employed 13 assistants to help paint the Sistine ceiling and some 20 to help carve the marble tombs in the Medici Chapel. Furthermore, said Wallace, he oversaw at least 200 workers in the construction of the Laurentian Library in Florence.

In writing "Michelangelo at San Lorenzo: The Genius as Entrepreneur" (1994, Cambridge University Press), Wallace focused on the less studied "middle history" of the artist's work — the long period between design and final product. Wallace detailed in the book three principal commissions undertaken for the Medici family: the San Lorenzo facade, the Medici Chapel and the Laurentian Library.

"My larger point in this book states that Michelangelo was characteristic of how Renaissance artists worked," Wallace said. "If you wanted to build buildings and carry out monumental sculpture commissions, inevitably, you had to work as a businessman."

This larger point is playing a significant role in Wallace's current project, a biography of Michelangelo that he says will "reinsert the idea of a gigantic artist and genius of all time back into his own life."

"Another Michelangelo book sounds rather one-dimensional," Wallace said, laughing. "The artist is a bit like a Beethoven or a Shakespeare — endlessly fascinating. And, yet, there is never a last word."

Wallace said the biography, a culmination of nearly 20 years of research, will be accessible to an audience larger than his first book may have reached. "Rather than sitting down, mired in facts and archival discoveries, with masses of notes, I'm sitting down with a viewpoint," he said. "Of course, the book will be documented and accurate; but it will also require a distant view. This is very liberating — to finally write as I see it."

The last truly great biography of the Renaissance master was written in 1893 by John Symonds, who wrote an entire history on Renaissance Italy, said Wallace. "It is a magnificent book but sounds very Victorian, which it is. The very thing missing from Michelangelo studies is his human side. We're so overwhelmed by his great accom-

plishments that we tend to deny the fact that he had a real life: friends, neighbors and family who were very important to him. I want to create a picture of a very human individual who achieves superhuman accomplishments. This is a fascinating conjunction."

Will the work-in-progress result in the definitive text? "There is no such thing as a definitive book on an artist," Wallace answered, echoing the advice imparted to him by his mentor, the late Howard Hibbard of Columbia University, where Wallace received his doctorate in 1983. "Certain other professors had said Michelangelo was too complicated and there was nothing new to say. Hibbard said, 'On the contrary! Every

things he'd written down through the course of the semester."

In eyeing the broad picture of higher education today, however, Wallace expresses a deep concern: "Too many students come with pre-planned ideas as to what they'll be doing later," he noted of incoming freshmen. "While I think some of this is due to parental pressure — maybe rightly so because college costs so much — students come with the idea that they must succeed and learn their life skills now. I like to think that this four years of life is potentially the most dramatically changing."

While an undergraduate at Dickinson College in Carlisle, Pa., Wallace took the time to explore his own interests. A three-week trip in his junior year to study the art in Florence and Rome captured his imagination.

He recounts the poignant moment on one trip home when he chose to tell his father, an electrical engineer, that he was contemplating an art history major: "I was expecting some kind of explosion," Wallace remembered. "I'll never forget his response. 'It's your life,' he said. 'I hope you will make the most of it, and I hope you are happy.'"

Wallace's reflections on his upbringing reveal a childhood rich in cultural influences that have colored his life. The son of a naval officer who moved his family often to locations such as Hawaii and Japan, Wallace recalls a house always filled with interesting objects.

"My parents traveled extensively. My mother took up Japanese painting

at one point," Wallace said. "When he was working at the Pentagon, my father would take lunch hours at the art galleries in Washington while other guys were downing two-martini lunches."

"So they (parents) were willing to see me go abroad and supported my choices," Wallace takes a deep breath. "I hope I can maintain this with my children when they're in college. I hope that when they come back to say, 'I want to be a military engineer'" — Wallace breaks into a laugh at the irony of such a scenario — "I can say, 'Fine, if that is what you're interested in.'"

Whatever path the Wallace children take in life, one thing is certain: They will have a solid base of knowledge in art history, by sheer osmosis, if nothing else.

"Yes, I talk to the children about my work all of the time," Wallace said of Sam, 9, and Katie, 6. "They can pick out a Botticelli and a Gauguin, not because I insist upon it but simply because they're surrounded by it ... and taken to many, many museums."

Sam was born in Florence the year his father began the research for his first book and is mentioned on the dedication page. Katie has been promised her name in the biography-in-progress.

Michelangelo's mission

"One of the aspects that hasn't been featured recently in Michelangelo discussions is his own belief of who he was and what his mission was," explained Wallace. "He was nobly born and truly believed that he was there to re-establish the grandeur, prestige and antiquity of his family."

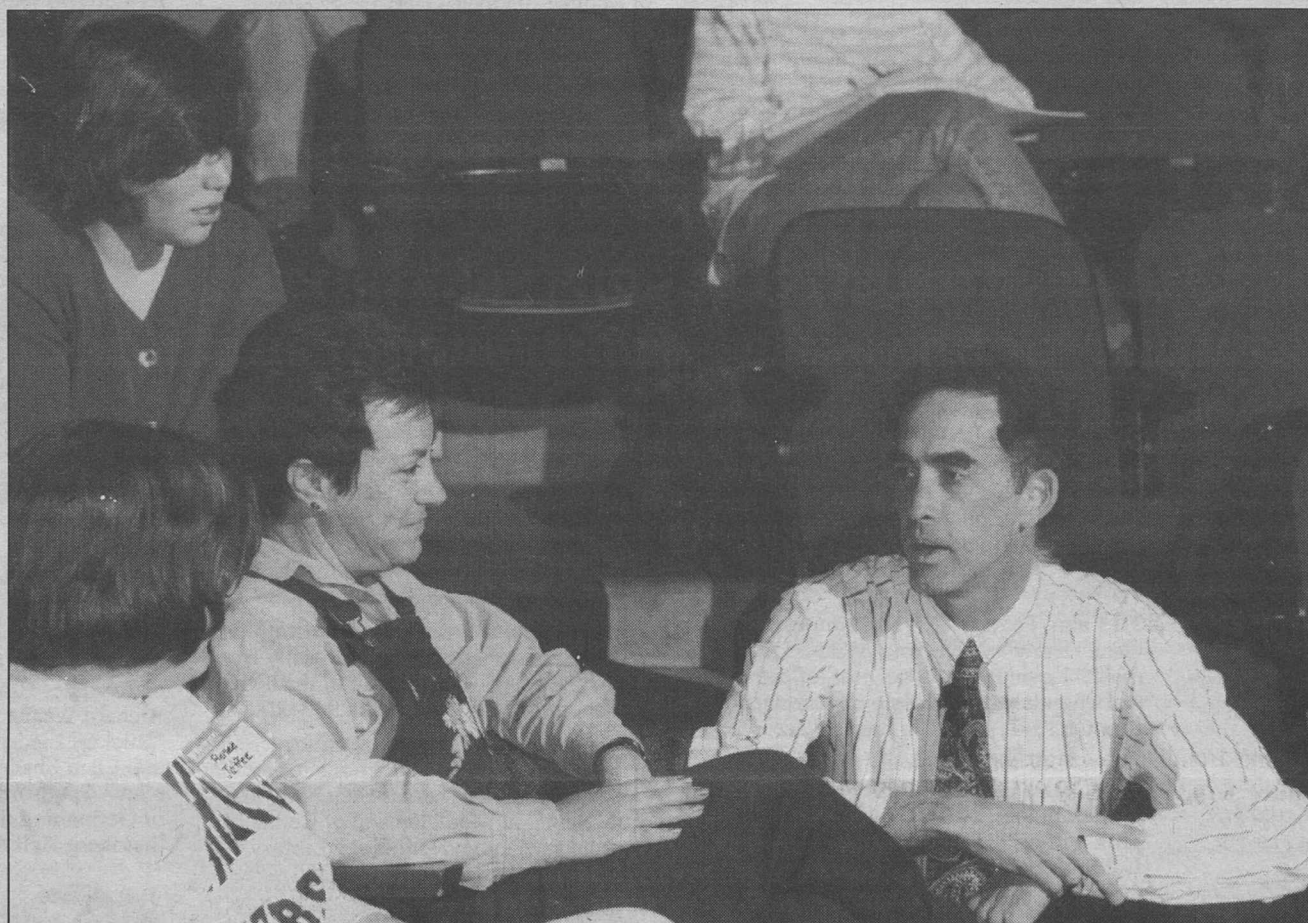
"His lineage was a driving force behind his social aspirations. He had a social ambition to make money and was very wealthy — today's equivalent of a multimillionaire — by the end of his life. His was a noble aspiration, not just a mercenary drive. In this way, he becomes that much more like his contemporaries."

A look around Wallace's office reveals Michelangelo's presence in an array of objects. Many are gifts given by appreciative students — "Dress Up David" paper dolls, a pasta box picturing the artist and a roll of toilet paper embossed with the likeness of David, to name a few.

"Art history will not change the way politics works," acknowledged Wallace. "It will not balance the budget nor do what we think we need to fix society. On the other hand, we can't live without culture. It is very important to the quality of life and essential to one's viewpoint."

"See," Wallace said, laughing, "David" refrigerator magnets in hand. "He's very much a living artist."

— Cynthia Georges



William Wallace meets with Renee Jaffee, (left) a freshman art major from Tucson, Ariz., and her mother, Yetta.

... we can't live without culture. It is very important to the quality of life"

new generation has something to say.' I like to pass along this idea to my students."

Wallace is a member of a University department that in the past decade dramatically has transformed itself from a sleepy enclave into a vibrant cluster of faculty, each of whom is a contributing, internationally recognized scholar. "While we are smaller than a Columbia or Princeton, we offer more hands-on attention in an intimate environment where you really get to know the faculty and have a good place to study," Wallace said.

Learns from his students

Wallace's devotion to scholarly pursuit is matched only by his love of teaching, report many of his students. His ability to connect with art history survey classes of 300 students, which he traditionally teaches each semester, is extraordinary, they say.

"Professor Wallace doesn't just like or have knowledge of his subject," offered Catherine Payne, a junior fashion design major who took Wallace's Western art history survey course last year. "He has a clear, wholehearted passion that comes through his teaching, even in a large class."

The professor's draw sends students scrambling for front-row seats in Steinberg Hall Auditorium and has garnered him, with the showing of the last slide at semester's close, rounds of thundering applause.

Martha Ahrendt, a doctoral candidate in Renaissance studies and a student in Wallace's class on Renaissance patronage, said, "His upper-level classes are exciting because he talks about the same things he is studying. He shows that research is alive."

"He believes that students can come up with new ideas, too," continued Ahrendt, whose dissertation adviser is Wallace. "Last year, toward the end of his seminar, he said to us, 'OK, this is what I've learned from you.' He spent 10 minutes reading through a list of

Calendar

Oct. 26–Nov. 4



Exhibitions

"The Keenest of Senses: Celebrating the Becker Rare Book Collection in Ophthalmology." Through Dec. 22. Glaser Gallery, The Bernard Becker Medical Library, 660 S. Euclid Ave. Hours: 9 a.m.-9 p.m. weekdays; 1-5 p.m. weekends. 362-4239.

"Engineering at Washington University: 125 Years of Excellence." Through Nov. 30. Special Collections, Olin Library, Level Five. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5444.



Films

All Filmboard movies cost \$3 and are shown in Room 100 Brown Hall. For 24-hour Filmboard hotline, call 935-5983.

Thursday, Oct. 26

7 and 9 p.m. Filmboard Foreign Series. "The Man Who Left His Will on Film" (1970, B&W), in Japanese with English subtitles.

Friday, Oct. 27

7 and 9:30 p.m. Filmboard Feature Series. "The Madness of King George" (1994), starring Nigel Hawthorne. (Also Oct. 28, same times, and Oct. 29 at 7 p.m.)

Midnight. Filmboard Midnight Series. "Dr. Strangelove" (1963), starring Peter Sellers and George C. Scott. (Also Oct. 28, same time, and Oct. 29 at 9:30 p.m.)

Wednesday, Nov. 1

7 and 9 p.m. Filmboard Foreign Series. "Contempt (Le Mpris)" (1964), in French with English subtitles. Starring Jack Palance, Brigitte Bardot. (Also Nov. 2, same times.)

7 p.m. Chinese Film Series. "Story of Qiu Ju" (1992), with English subtitles. Room 219 South Ridgley Hall. 935-5156.

Friday, Nov. 3

7 and 9:30 p.m. Filmboard Feature Series. "The Shawshank Redemption" (1994), starring Tim Robbins and Morgan Freeman. (Also Nov. 4, same times.)

Midnight. Filmboard Midnight Series. "The Jerk" (1979), starring Steve Martin. (Also Nov. 4, same time.)



Lectures

Thursday, Oct. 26

1 p.m. Vision science seminar. "T Cell Responses to *Yersinia Enterocolitica*," P. Michael Stuart, research asst. prof., Dept. of Ophthalmology and Visual Sciences. East Pavilion Aud., Barnes Hospital. 362-2689.

2:30 p.m. Mechanical engineering seminar. "Self-excited Motions and Dynamic Instabilities in Fluid-conveying Tubes," Anil K. Bajaj, prof. of mechanical engineering, Purdue U. Room 100 Cupples II Hall. 935-6055.

4 p.m. Anthropology colloquium. "Theory and Practice in Chinese Archaeology," Robert Thorp, assoc. prof., Dept. of Art History and Archaeology. Room 149 McMillan Hall. 935-5252.

4 p.m. Chemistry seminar. "Structure and Dynamics of Proteins in Solution by NMR," Eric Zuiderweg, prof. of biological chemistry, U. of Michigan Medical School, Ann Arbor. Room 311 McMillan Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "How Did Extinct Radionuclides (When Live) Get Into the Solar Nebula?" A.G.W. Cameron, prof., Harvard-Smithsonian Center for Astrophysics. Room 362 McDonnell Hall. 935-5610.

4 p.m. East Asian studies lecture. "Gender and Sexuality in Tokugawa, Japan," Sumie Jones, prof., East Asian studies, Indiana U., Bloomington. Part of the 1995-96 colloquium series on "Women in East Asia." Sponsored by the Joint Center for East Asian Studies. U. of Missouri-St. Louis, 8001 Natural Bridge Road, 331 Social Science and Business Bldg. 516-5753.

4 p.m. Molecular oncology/pathology seminar. "Biochemical Events in the Transformation of B-lymphocytes in Response to Epstein-Barr Virus Infections," Elliott Kieff, prof. of medicine, microbiology and molecular genetics, Harvard U. Third Floor Aud., St. Louis Children's Hospital. 362-9035.

4 p.m. Political science discussion. "The Politics of Gay Rights in American Communities: Explaining Anti-discrimination Ordinances and Policies," Kenneth D. Wald, prof. of political science, U. of Florida, Gainesville. Room 200 C Eliot Hall. 935-5822.

7 p.m. Architecture lecture. "The Next American Metropolis," Peter Calthorpe, Calthorpe Associates, San Francisco. Part of the "Mayors' Institute on City Design: Midwest." (See page 6.) Steinberg Hall Aud. (A reception will follow in Room 120 Givens Hall.) 935-5342 or 935-6253.

Friday, Oct. 27

9:15 a.m. Pediatric Grand Rounds. "B-CL₂ Gene Family and Nervous System Development," Kevin Roth, assoc. prof. of pathology and of molecular biology and pharmacology. Clopton Aud., 4950 Children's Place.

Noon. Cell biology and physiology seminar. "Roles of the Motor Receptor, Kinetin, in Membrane Traffic," Michael P. Sheetz, prof. and head, Dept. of Cell Biology, Duke U. Medical Center. Cell Biology and Physiology Library, Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. Environmental engineering seminar. "Impact of the Clean Air Act Amendments of 1990 on the Electric Utility Industry," Michael Menne, supervising environmental scientist, Union Electric Co., St. Louis. Room 216 Urbauer Hall. 935-8590.

1 p.m. Solid-state engineering and applied physics seminar. "Track-width Dependence of Transition Jitter in Magnetic Recording," P. Dhagat, graduate student, Dept. of Electrical Engineering. Room 305 Bryan Hall.

2 p.m. Education lecture. "Language, Learning and Literacy Practices in Traditional and Non-traditional Urban Classrooms," Arneha Ball, asst. prof. of education, U. of Michigan, Ann Arbor. Room 149 McMillan Hall. 935-6707.

3:30 p.m. Environmental studies colloquium. "Groundwater Mining," Robert Criss, prof., Dept. of Earth and Planetary Sciences. Room 362 McDonnell Hall. 935-4258.

4 p.m. Music lecture. "Corroborating 'Testimony': A New Look at the Shostakovich Memoirs," Allan Ho, prof. of musicology, Southern Illinois U., Edwardsville. Alumni House Living Room. 935-5581.

5 p.m. Architecture lecture. Alumnus Kevin Flynn, set and lighting designer, Kiku Obata & Co., St. Louis. Room 116 Givens Hall. 727-1920.

Monday, Oct. 30

3:45 p.m. Physics seminar. "Hydrogen in Metals," John Hanneken, prof., Dept. of Physics, Memphis (Tenn.) State U. Room 241 Compton Hall. 935-6276.

4 p.m. Biology seminar. "Transcription and Tyranny in the Nucleolus," Craig Pikaard, asst. prof., Dept. of Biology. Room 322 Rebstock Hall. 935-6287.

4 p.m. Chemistry seminar. Kennedy Lecture. "The Discovery of Purely Shell-stabilized Nuclei, the Deformed Nuclei of the Superheavy Elements Z = 107 to Z = 111," Peter Armbruster, honorary prof., Gesellschaft für Schwerionenforschung. Room 458 Louderman Hall. 935-6530.

4 p.m. Environmental studies colloquium. "Significance of Microbial Ion Reduction to the Geochemistry of Pristeen and Contaminated Sedimentary Environments," Derek Lovley, prof. of microbiology, U. of Massachusetts, Amherst. Room 362 McDonnell Hall. 935-4258.

4 p.m. Immunology seminar. "Immune Response to Organ Transplantation," Thalachallour Mohanakumar, prof. of pathology and of surgery. Third Floor Aud., St. Louis Children's Hospital. 362-8748.

4 p.m. Psychology colloquium. "The Borderline Between Healthy Aging and Alzheimer's Disease," Martha Storandt, prof. of psychology. Room 118 Eads Hall. 935-6592.

8 p.m. Architecture lecture. "How Buildings Learn: What Happens After They're Built," Stewart Brand, inventor, designer and co-founder of Global Business Network. Steinberg Hall Aud. (A reception will follow in Room 120 Givens Hall.) 935-6200.

Tuesday, Oct. 31

11 a.m. Chemistry seminar. Kennedy Lecture. "Fission of ²³⁸U at 750 A.MeV, a New Access to Low-energy Fission and the Most Neutron Rich Fission Fragments," Peter Armbruster, honorary prof., Gesellschaft für Schwerionenforschung. Room 311 McMillan Lab. 935-6530.

Noon. Molecular microbiology/microbial pathogenesis seminar. "Inhibition of the MHC Class I Antigen Presentation Pathway by Herpes Simplex Virus," David C. Johnson, Dept. of Pathology, McMaster U., Hamilton, Ontario. Cori Aud., 4565 McKinley Ave. (Refreshments: 11:45 a.m.) 362-1232.

12:10 p.m. Physical Therapy Brown Bag Research Seminar. "Implementing E-mats in Healthcare," Paula Bohr, registered occupational therapist and instructor, Program in Occupational Therapy. Classroom C, Forest Park Bldg., 4444 Forest Park Blvd. 286-1400.

3 p.m. Geometry seminar. "Nilmanifolds Which Are Isospectral but not Locally Isometric," Edward Wilson, prof. of mathematics. Room 199 Cupples I Hall. 935-6726.

4 p.m. Diabetes research seminar. "Extracellular ATP and GAP Junctions in Cellular Communication," Thomas Steinberg, asst. prof., depts. of Medicine and of Cell Biology and Physiology. Pathology Library, Room 3723 West Bldg. 362-7435.

Wednesday, Nov. 1

6:30 a.m. Anesthesiology Grand Rounds. "The Genetics of the Multiple Endocrine Neoplasia Syndromes," Samuel A. Wells Jr., Bixby Professor and chair, Dept. of Surgery. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Obesity in the Ob/Gyn Patient," Richard Kubiniec, chief resident, Dept. of Obstetrics and Gynecology, Barnes Hospital. Clopton Aud., 4950 Children's Place. 362-3143.

4 p.m. Biochemistry and molecular biophysics seminar. "New Insights Into Protein Engineering and Hemoglobin Function From the Blood Substitute rHb1.1," Craig Kundrot, asst. prof., Dept. of Chemistry and Biochemistry, U. of Colorado, Boulder. Cori Aud., 4565 McKinley Ave. 362-0261.

Thursday, Nov. 2

1:10 p.m. Social work lecture. "Women in Business Management/Leadership Positions," Elaine Church, partner and human resources manager, Price Waterhouse, Washington, D.C. Brown Hall Lounge. 935-6600.

4 p.m. Assembly Series. Edward G. Welton Lecture in Religious Studies. "Conscience Against Commonwealth and Church," John Noonan Jr., U.S. circuit judge. (See page 5.) Courtroom, Mudd Law Bldg. 935-5285.

4:30 p.m. Math colloquium. "Linear Systems on Algebraic Varieties," Lawrence Ein, prof., U. of Illinois, Chicago. Room 199 Cupples I Hall. 935-6726.

Friday, Nov. 3

Noon. Cell biology and physiology seminar. "A Function for Each Domain of the N-ethylmaleimide Sensitive Fusion Protein (NSF)," Sidney W. Whiteheart, U. of Kentucky, Lexington. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. Environmental engineering seminar. "Integrated In-situ Soil Remediation Technology — The Lasagna Process," Sa Ho, science fellow and unit leader, remediation technologies, Monsanto Co., St. Louis. Room 216 Urbauer Hall. 935-8590.

1 p.m. Solid-state engineering and applied science seminar. "Heat Transfer in Ultra-high Density Magnetic Recording Systems," H.S. Chen, graduate student, Dept. of Electrical Engineering. Room 305 Bryan Hall. 935-5565.

3:15 p.m. Philosophy-Neuroscience-Psychology Program seminar. "Musical Pattern vs. Musical Meaning: Can Powerful Music be Generated by Powerful Computers?" Douglas Hofstadter, prof. of cognitive science and computer science, and director, Center for Research on Concepts and Cognition, Indiana U., Bloomington. Room 149 McMillan Hall. 935-6670.

3:15 p.m. Political science discussion. "Are Americans Ambivalent About Racial Policy?" John Brehm, prof. of political science, Duke U. Room 200 C Eliot Hall. 935-5822.

4 p.m. Algebraic geometry seminar. "Linear Systems on Threefolds," Lawrence Ein, prof., U. of Illinois, Chicago. Room 113 Cupples I Hall. 935-6726.

5 p.m. Architecture lecture. Alise O'Brien, architectural photographer. Room 116 Givens Hall. 727-1920.

6 and 8:30 p.m. WU Association Travel Lecture Series. "The Real World of Hong Kong and Southern China," by Rick Howard. Graham Chapel. Cost: \$4.50. 935-5212.



Music

Sunday, Oct. 29

4 p.m. Annual Liederabend. Program: songs of Johannes Brahms and Richard Strauss; Richard Wagner's "Wesendonk Lieder"; and "Rückert Lieder" of Gustav Mahler. Performers: Ellen Shade, soprano, and Gail Hintz, piano. Sponsored by the depts. of Music and of Germanic Languages and Literatures. Steinberg Hall Aud. 935-5581.



Performances

Friday, Nov. 3

8 p.m. Performing Arts Dept. presents "Marat/Sade," the story of the persecution and assassination of Jean-Paul Marat by the inmates of the Asylum of Charenton under the direction of the Marquis de Sade. (Also, Nov. 4, same time.) (See page 6.) Cost: \$8 for the general public and \$6 for senior citizens and WU faculty, staff and students. Edison Theatre. 935-6543.



Miscellany

Thursday, Oct. 26

Office of Continuing Medical Education registration continues. "21st Annual Symposium on Obstetrics and Gynecology," set for Nov. 9-10 in the Eric P. Newman Education Center, Euclid Avenue and Children's Place. Registration open through Nov. 8. 362-6893.

4 p.m. Book discussion group. "Black Atlantic," by Paul Gilroy. Led by Lynn Weiss, asst. prof. of English and of African and Afro-American studies. Sponsored by the American Culture Studies Institute. Room 219 McMillan Hall. 935-5216.

Friday, Oct. 27

10 a.m.-1 p.m. Third annual law school rummage sale. Proceeds benefit the United Way. Fourth floor, Mudd Law Bldg. 935-6483.

8 p.m. Poetry reading. Charles Wright, Pulitzer Prize-winning author of "Xionia Poems." Hurst Lounge, Room 201 Duncker Hall. 935-5190.

Wednesday, Nov. 1

8 p.m. Fiction reading. E. Annie Proulx, Pulitzer Prize-winning author of "The Shipping News." Hurst Lounge, Room 201 Duncker Hall. 935-5190.

Catholic Student Center Twilight Retreat registration deadline. "The Catholic Understanding of the 'Communion of Saints'" will be held from 6-9 p.m. Nov. 3 at the Catholic Student Center, 6352 Forsyth Blvd. To register, call 725-3358.

Thursday, Nov. 2

8 p.m. Literary reading to benefit hunger relief. The Writers Harvest features well-known St. Louis participants who will read from their works. The writers are David Carkeet, David Clewell, William H. Gass, Itabari Njeri, E. Annie Proulx, Eugene Redmond, Pattiann Rogers and Glenn Savan. All proceeds benefit Operation Food Search, a St. Louis hunger-relief organization. St. Louis Brewery/Taproom, 2100 Locust St. Cost: \$10 for the general public and \$5 for students. Tickets sold at the door. 935-5576.

Midwest AIDS Training and Education Center symposium. "Clinical Care Approach to HIV Disease." Cost: \$150 for physicians and \$125 for allied health professionals. Regal Riverfront Hotel, 200 S. Fourth St., St. Louis. Call Susan Wightman at 362-2418 or (800) 432-0448.

Friday, Nov. 3

Office of Continuing Medical Education lecture and grand rounds. "Rupert B. Turnbull Memorial Lectureship and Surgical Grand Rounds." David Ransohoff, prof. of medicine and epidemiology, U. of North Carolina. Event runs through Nov. 4. Heifetz Library and Steinberg Amphitheater, Jewish Hospital, 216 S. Kingshighway. Registration open through Nov. 2. 362-6893.

**Special Events**

Sexual Assault Awareness Week. The purpose is to heighten awareness about rape, sexual assault and violence in the WU community and in the community at large. For more info., call 935-5037.

Monday, Oct. 30

7:30 p.m. Rape Speak-out. Survivors of sexual assault, rape and violence will discuss their personal experiences in a safe environment with the assistance of a facilitator. Friedman Lounge, Wohl Student Center.

Tuesday, Oct. 31

11:15 a.m.-12:15 p.m. Continuing Educa-

Newman Center brunch set for Nov. 5

The annual brunch to benefit the Catholic Student Center at Washington University, also known as the Newman Center, will be held at noon Nov. 5 at the Frontenac Hilton Hotel, 1335 S. Lindbergh Blvd. The center is celebrating its 45th anniversary this year.

In past years, the brunch featured a fashion show; this year, University students will provide the entertainment. The Rev. Gary G. Braun, director of the Newman Center, said, "We changed the format of the brunch to reflect more the activities and accomplishments of Washington University students." The Washington University Pikers and the Greenleafs, two nationally recognized student cappella groups, and the Newman Center Gospel Players will perform. Charles Brennan of KMOX-AM radio will be the master of ceremonies.

The center provides religious programs, professional groups, theological and current-issue discussion groups, counseling services, retreats and social activities

Son of legendary 'Desert Fox' to speak

The Hon. Manfred Rommel, Lord Mayor of Stuttgart, Germany, will speak at 2 p.m. Friday, Oct. 27, in Room 112 Simon Hall. Lord Mayor Rommel, who is coming to St. Louis to celebrate the 35th anniversary of the sister-city relationship between St. Louis and Stuttgart, will speak about "Opportunities for American Business in a Unified Europe."

Lord Mayor Rommel is the son of Field Marshal Irwin Rommel, the legendary

tion workshops. Peer educators will present two workshops providing people with an opportunity to further their knowledge and understanding of sexual violence. Second workshop will be held from 12:45-1:45 p.m. Women's Bldg. Lounge.

Wednesday, Nov. 1

11 a.m.-noon. Silent demonstration. Held outside Mallinckrodt Center to inform the student body about rape, sexual assault and violence.

8 p.m. Panel discussion. The discussion will address current events such as the women's conference in Beijing and the O.J. Simpson trial. Panel members include Helen Power, coordinator of the Women's Studies Program; Miriam Bailin, asst. prof. of English; Marilyn Friedman, assoc. prof. of philosophy and of women's studies; and Don Conway-Long, instructor in women's studies. McMillan Cafeteria.

Thursday, Nov. 2

Self-defense workshops. A women's self-defense workshop will be held from 4-6 p.m. in Lambert Lounge, Room 303 Mallinckrodt Center, and a general workshop for men and women will be held from 6-8 p.m. in Greenstuffs in Wohl Student Center. Space for the women's workshop is limited to 20, and the general workshop is open to all.

Friday, Nov. 3

5:45 p.m. Take Back the Night March. Keynote speaker is Liann Tsoukas, former instructor in the Dept. of History. Rally begins with comments by Chancellor Mark S. Wrighton. March route starts at Brookings Quadrangle, then goes north on Skinker Boulevard, west on Delmar Boulevard and returns to campus on the Greenway Walkway, passing the fraternity houses. During the march, a men's discussion will take place in McMillan Cafeteria.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Judy Ruhland at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-4926.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-4926.

for University students of all denominations. The center, at 6352 Forsyth Blvd., also offers classes in Catholic theology, scripture and philosophy. Students associated with the center participate in many social-service activities that aid the elderly, the poor and needy children in St. Louis, including STONESoup, a University student-run food outreach project. STONESoup provides food for as many as 80 homeless people each Sunday. Other activities include an Urban Plunge retreat, where students live and spend time helping residents in the inner city; an alternative winter break trip to help the poor in Guatemala; and ministry in an AIDS hospice in St. Louis.

Individual tickets to the brunch are \$40. A sponsor donation of \$250 includes two tickets; a Newman Knight and Newman Lady donation of \$500 includes four tickets; and a Newman Crusader donation of \$1,000 includes eight tickets.

For reservations, call 725-3358.

"Desert Fox" of Germany's North Africa campaign during World War II. Irwin Rommel sought to bring an end to the war by participating in an unsuccessful plot to assassinate Adolph Hitler.

Lord Mayor Rommel has served as mayor of Stuttgart for more than two decades and is one of Europe's most distinguished statesmen.

His lecture is sponsored by the John M. Olin School of Business.

Judge John T. Noonan delivers Weltin lecture in religious studies

John T. Noonan Jr. will speak in the Assembly Series at 4 p.m. Thursday, Nov. 2. His lecture, titled "Conscience Against Commonwealth and Church," will be held in the Courtroom in the Mudd Law Building and is free and open to the public.

Noonan is a judge on the Ninth U.S. Circuit Court of Appeals in San Francisco,



John T. Noonan Jr.

a position he has held since 1986. He was professor of law at the University of California, Berkeley, from 1966 to 1986 and professor of law at the University of Notre Dame from 1961-66. He also served on the staff of the National Security Council during the Eisenhower administration and worked in private legal practice in Boston from 1955 to 1960.

After receiving a bachelor's degree summa cum laude from Harvard University in 1946, Noonan earned a master's degree and doctorate from the Catholic University of America, Washington, D.C., in 1949 and 1951, respectively. He then studied for his bachelor of laws degree at Harvard Law School, receiving it in 1954.

Noonan's foremost intellectual interest is

the relation between religion and government. This is reflected in his writings, which include the following books: "Bribes" (1984), "The Believer and the Powers That Are: Cases, History and Other Data Bearing on the Relation of Religion and Government" (1987), "A Private Choice: Abortion in America in the Seventies" (1979) and "Contraception: A History of Its Treatment by the Catholic Theologians and Canonists" (1965). He also has edited "The Morality of Abortion: Legal and Historical Perspectives" (1970) and written many articles, including "Principled or Pragmatic Foundations for the Freedom of Conscience" (1987), published in the Journal of Law and Religion.

This lecture serves as the Edward G. Weltin Lecture in Religious Studies. Weltin began teaching Greek and Roman history at Washington University in 1947 and retired from the Department of History in Arts and Sciences in 1980, continuing thereafter to teach courses through University College. The lecture is sponsored by the Assembly Series, the Committee on Religious Studies in Arts and Sciences and Student Union.

For more information, call 935-5285.

There will be no Assembly Series talk on Wednesday, Nov. 1.

Sports

Compiled by Mike Wolf, director, and David Moessner, assoc. director, sports information.

Football Bears improve to 7-1 with 40-7 win

Keeping their home winning streak intact at seven games, the 18th-ranked Bears bounced back from their season's first loss with a convincing 40-7 victory over the University of Rochester (N.Y.). With the victory, the Bears remain in contention for a University Athletic Association (UAA) crown, staying one-half game behind league-leader Carnegie-Mellon University (Pittsburgh), which is 2-0 in the UAA. Sophomore quarterback Thor Larsen tossed a pair of touchdown passes to become the school's single-season leader with 18 scoring strikes.

Current record: 7-1 (2-1 UAA)

This week: 12:30 p.m. (EDT) Saturday, Oct. 28, at Case Western Reserve University (Cleveland) (UAA)

Volleyball team extends home win streak to 86

The Bears resumed their winning ways on the volleyball court last week. The victories extended the Bears' NCAA-record home winning streak to 86. The Bears dispatched Columbia (Mo.) College, a team that featured a former Chinese national team setter. On Friday and Saturday, the Bears claimed the team title at their own six-team Bears' Classic. Senior Shelley Swan was named the tournament's most valuable player and was joined on the seven-player all-tourney team by junior setter Stephanie Habif and senior outside hitter Nikki Gitlin.

Current record: 29-3 (7-0 UAA)

This week: Friday-Saturday, Oct. 27-28, at UAA Championships (Waltham, Mass.)

Men's soccer streak ends with 1-0 loss

The Bears' 16-game UAA unbeaten string — a league record — was halted on Sunday as the University of Rochester upended the Bears 1-0. The defeat also cost the Bears a chance to win their sixth UAA championship in nine years. With the loss, Emory University (Atlanta) overtook the Bears in the

standings and won the league race with a 6-1 record. The Bears close out their regular season on Saturday, entertaining Carnegie-Mellon University in a UAA game.

Current record: 13-2-2 (4-1-1 UAA)

This week: Noon Saturday, Oct. 28, vs. Carnegie-Mellon University (UAA), Francis Field

Women's soccer stays in hunt for UAA title

The Bears took two significant steps toward securing a first UAA crown by earning ties against Brandeis University (Waltham, Mass.) and the University of Rochester. One UAA match remains on the slate — a Saturday date with Carnegie-Mellon University. The Bears' UAA fortunes will mirror the outcome of the game — a win giving WU the outright championship, a draw putting the Bears in a first-place tie, and a loss leaving the Bears in second.

Current record: 9-5-4 (3-0-2 UAA)

This week: 2:30 p.m. Saturday, Oct. 28, vs. Carnegie-Mellon University (UAA), Francis Field; 1 p.m. Sunday, Oct. 29, at University of Missouri-St. Louis

Cross country teams fare well at UAAs

The women and men's cross country teams finished second and third, respectively, at last weekend's UAA Championships in Rochester, N.Y. The women, coming in as defending champions, finished one point behind team titlist Carnegie-Mellon University. The men matched their best-ever league finish, placing behind Rochester and Brandeis University. Three women earned first-team all-UAA honors as All-American junior Jerylin Jordan, freshman Emily Richard and junior Ruby Hanna placed a respective fifth, sixth and seventh. The men packed four runners on the all-UAA second team as sophomore Shane Ulrich, senior Brian Shiers, sophomore Jeremy Dubow and senior Asa Flanigan nailed down the 11th through 14th spots.

This week: 11 a.m. Saturday, Oct. 28, Washington University Invitational, Tower Grove Park, St. Louis

Midwest mayors to participate in institute on urban design

The School of Architecture will host the Mayors' Institute on City Design: Midwest Thursday-Saturday, Oct. 26-28.

The institute, which is sponsored by the National Endowment for the Arts (NEA), provides a forum for an invited group of mayors to meet with architects and designers to discuss all aspects of city design — architecture, mass transit, historic preservation, growth planning and management, urban design and development.

This year the conference will focus on the concept of "sustainable development," which includes issues such as workable solutions to the two-hour commute and how mass transit, such as MetroLink, will shape future communities. The institute is directed by John Hoal, who is assistant professor of architecture and director of urban design for the city of St. Louis.

"Mayors are the focus of the institute because they are uniquely situated to be powerful advocates for good design in their communities," said Hoal. "The institute serves as a vehicle for providing support and resources for the increased involvement of mayors in city design, and its aim is to have a positive influence on the livability of American communities."

The mayors attending this year are Arlene Mulder from Arlington Heights, Ill.; Roger Cook from Belleville, Ill.; Terry Duggan from Dubuque, Iowa; Ken Gnadt from Grand Island, Neb.; Edith Stunkel from Manhattan, Kan.; Orlin Backes from Minot, N.D.; and Marigen Carpenter from Neenah, Wis.

Peter Calthorpe, author of "Sustainable Communities" and "The Next American Metropolis," will deliver the keynote lecture at 7 p.m. Thursday, Oct. 26, in Steinberg Hall Auditorium. The lecture, which is free and open to the public, is co-sponsored by Citizens for Modern Transit, a local group that worked for 12 years to make St. Louis' MetroLink a reality.

Widely considered a pioneer in design techniques for passive-energy-efficient structures, Calthorpe advocates a type of new urbanism in which the number of highways and expressways are reduced, communities are clustered in "village centers" or nodes, and green spaces occupy the space between nodes. In Calthorpe's scheme, inhabitants make more use of public transportation. Calthorpe, whose company is based in San Francisco, is building several projects in California based on his approach. Cited by Newsweek magazine as one of 25 "innovators on the

cutting edge," Calthorpe has received numerous honors and awards.

"Many of the decisions that mayors have to make deal with physical planning and design of their cities," said Cynthia Weese, FAIA, professor and dean of the School of Architecture. "It is extremely important that mayors form partnerships with others — architects, planners and urban designers — to help them make informed, wise decisions. In many cases, mayors are most proud of their accomplishments in improving the built environment of their cities."

The National Mayors' Institute on City Design program was established in 1986 by the NEA in partnership with the University of Virginia School of Architecture, the Jefferson Institute and the U.S. Conference of Mayors. In 1990, four regional institutes were established at universities nationwide. Washington University's Urban Research and Design Center is hosting the Midwest institute. This is the last of three annual institutes

hosted by Washington University. Each year, mayors from seven different cities attend the Washington University conference.

The design professionals are a broad interdisciplinary group made up

of experts in architecture and urban design, historic preservation, landscape architecture, developers and sociologists, as well as three NEA representatives.

In addition to Hoal, this year's panel members include William Johnson, a California-based landscape architect and principal of Peter Walker William Johnson and Partners; Victor Dover, urban designer and principal of Dover/Kohl and Associates; Janet Majerus, mayor of University City; Ross Tilghman, transportation planner from TDA Illinois Inc.; Sarah Smith, Arts in Transit; Ralph Tharpe, urban planner from Land Strategies Inc.; Stan Mulvihill, Civitas Project Development; and three Washington University architecture faculty, professors Gerald Gutenschwager, Ph.D., and Thomas L. Thomson and Carl Safe, associate professor.

Other members of the project team are Diane Trees Howard, contract administrator in the Urban Research and Design Center, and four graduate students in urban design: David Block, Karl Gruenewald, Christa Hurley and Mara Minarik.

For more information about the institute, call 935-5342 or 935-6253.

Designer Peter Calthorpe will deliver the keynote lecture at 7 p.m. Thursday, Oct. 26, in Steinberg Hall Auditorium.

Art school faculty to exhibit works

The School of Art will showcase works of several new and longtime faculty members in a show titled "Transitions" from Nov. 3 through Dec. 17 at the Gallery of Art in Steinberg Hall.

The exhibition opens with a free public reception from 5 to 7 p.m. Nov. 3 in Steinberg Hall.

Several new faculty members will have their works displayed.

Ron Fondaw, an internationally known ceramic sculptor who became professor of art this semester, will show earlier sculptures, as well as a large-scale work in clay to be constructed on site. Fondaw has had numerous one-person exhibitions at respected venues in New York, Chicago, Los Angeles, Holland, Denmark and Taiwan.

Sabina Ott, who joins the school next semester as an associate professor, is a painter whose works are in the collections of the Metropolitan Museum of Art, New York; the Los Angeles County Museum of Art; and the Corcoran Gallery of Art in Washington, D.C., among others. Ott is known for her paintings on wood panels with encaustic, a thick, waxlike substance that often is heavily layered. She earned a master's degree in fine arts from the San Francisco Art Institute in 1981.

Janet Sanders, an assistant professor of art at the school since fall 1994, is a sculptor who has worked extensively with

metals. Sanders' works explore and define physical space through sculptures that include chairs, fences, metal grids, beds, curtains and Plexiglas covers. She taught previously at the University of Florida, Gainesville.

The show also honors three faculty who have had long careers at the school.

Bill Kohn, a professor of art who is known for his colorfully abstract cityscapes, will display selected works spanning his painting career of more than three decades. The show will include sketchbooks and a selection of landscape and cityscape paintings ranging from smaller works to massive canvases.

Robert C. Smith, an emeritus professor of art who is known for his elaborate art books, will display a variety of works, including books, photo works and his design of the lion logos and street signs for University City. Smith also will show a small-scale model of a fountain designed for St. Louis' Forest Park.

James A. Sterritt, the former head of the school's sculpture program and professor of art who died last spring, will have several works on display, including a large tractor tire cast from black rubber; a 1970s abstract sculpture utilizing small aluminum cones; and drawings he made in preparation for a huge sculpture on display at the Mudd Law Building.

For more information, call 935-6500.



(Left to right) Jean-Paul Marat (senior Ryan Patterson), Charlotte Corday (senior Alexis Chamow), and the Marquis de Sade (graduate student Robert Neblett) will appear in the Performing Arts Department production of "Marat/Sade."

Performing Arts Department presents bone-chilling, provocative 'Marat/Sade'

The Marquis de Sade's whip may be all that saves the audience from a mob of merciless madmen as the Performing Arts Department brings Peter Weiss' bone-chilling and provocative 1960s masterpiece "Marat/Sade" to the Edison Theatre stage Nov. 3-5 and 10-12.

"How close is any living being to falling into a state of madness, and how strong are the artifices that keep us all from being engulfed by chaos? 'Marat/Sade' grabs the audience by the throat with these questions and threatens to drag each onlooker into the emotional abyss of a mental asylum," said Jeffery Matthews, director of the play and artist-in-residence.

The play officially is titled "The Persecution and Assassination of Jean-Paul Marat, as Performed by the Inmates of the Asylum of Charenton Under the Direction of the Marquis de Sade."

"Marat/Sade" cast members will be stationed near the Edison Theatre box office in Mallinckrodt Center, in the lower level of the Ann W. Olin Women's Building and in Holmes Lounge in Ridgley Hall from 11:30 a.m. to 1 p.m. Tuesday, Oct. 31, offering \$1-off coupons to anyone who can recite the play's full title.

The play itself will be offered at 8 p.m. Nov. 3, 4, 10 and 11 and at 2 p.m. Nov. 5 and 12. Eric Nuetzel, M.D., of the St. Louis Psychoanalytic Institute will lead a discussion of the historic, psychiatric and psychological impact of "Marat/Sade" following the Nov. 3 performance.

"Marat/Sade" is set in the bath hall of the French asylum of Charenton in 1808. There, an imprisoned Marquis de Sade leads an acting company of mental patients and political prisoners through an unusual retelling of the murder of the

revolutionary leader Jean-Paul Marat. This shocking drama unfolds before an audience of the French gentry who are put on edge by the alarming content of the play and made increasingly uncomfortable by the violent behaviors of the inmates. Tension mounts as the Marquis' unruly cast of maniacs turns on its audience of bourgeoisie voyeurs and acts out its threats of physical violence. No one in the theater is safe from attack.

"The result is a vivid work that vibrates on wild, intense, murmurous and furious levels," wrote a critic for The New York Times in a 1965 review of the play's premiere at New York's Martin Beck Theater. "It is sardonic and impassioned, pitiful and explosive. It may put you off at times with its apparent absurdity, or it may shock you with its allusions to violence and naked emotions. But it will not leave you untouched."

"Marat/Sade" captured both the New York Critics' Circle and Tony awards for best play of 1966, but few directors since have attempted to re-create the complex drama. It has seldom, if ever, been seen on a St. Louis stage since the 1971-72 production at The Repertory Theatre of St. Louis. Twenty-five students will have on-stage roles in the play's production at Washington University.

Tickets are \$8 for the general public and \$6 for senior citizens and University faculty, staff and students. (A 20 percent discount is available for groups of 20 or more.) For more information or a copy of the season brochure, call 935-6543.

(Editor's Note: Because of the presence of sexual situations and violence, "Marat/Sade" is recommended for mature audiences only.)

Weekend highlights German department

The Department of Germanic Languages and Literatures in Arts and Sciences is sponsoring a German Weekend at Washington University Friday-Sunday, Oct. 27-29, to acquaint prominent high school teachers and students nationwide with the department's programs and to encourage the teaching and learning of German.

The department traditionally sponsors a German Day in the spring for hundreds of St. Louis-area high school students and teachers. But this year, the faculty wanted to broaden the program's scope to include teachers and students from out-of-state high schools, said Lynne Tatlock, Ph.D., professor and chair of the German department. "While we are well-known for our graduate program on the national level, our undergraduate programs are not as well-known. We want high school teachers to get to know us better. Our long-term goal is to develop a stronger connection with these teachers."

"Overall, we hope to encourage an exchange of ideas between the high school and college levels among teachers who work really hard to promote the study of German. As for the students, who are considered among the top in the country, we want to inspire them to continue learning German."

The high school students will stay in the residence halls with University students who are studying German.

During the German Weekend, several activities will focus on exploring how educators can develop new ways of teaching poetry to their students. "Poetry is a painless way of learning a number of different skills, like pronunciation, new vocabulary and grammar, as well as acquiring information about German culture," said Tatlock.

Weekend highlights also include teacher and student workshops, a poetry contest, a treasure hunt and campus and city tours.

Alumnus participated in physics experiment that led to Nobel Prize

A Washington University alumnus, the late Clyde L. Cowan Jr., participated in a critical experiment for which the 1995 Nobel Prize in physics was awarded earlier this month. The Royal Swedish Academy of Sciences awarded the \$1 million physics prize jointly to Martin L. Perl of Stanford University and Frederick Reines of the University of California at Irvine.

Perl and Reines shared the prize for their unrelated experiments in which they discovered two different subatomic particles. Cowan, who received a doctorate in physics from Washington University in 1949, collaborated with Reines in the 1950s at the Los Alamos National Laboratory in New Mexico. Together, Cowan and Reines demonstrated in 1956 the existence of a subatomic particle, the neutrino.

The existence of neutrinos had been theoretically predicted about 20 years earlier. Despite its fundamental importance to the study of cosmology, the mechanisms of energy generation in the stars and the structure of elementary particles, the neutrino was believed to be undetectable.

Although the Nobel Committee does not make posthumous awards, the Royal Swedish Academy of Sciences did give Cowan equal credit for what it referred to as the "neutrino breakthrough." In its official statement, the academy said, "Reines and Cowan succeeded in a feat considered to border on the impossible. They had raised the neutrino from its status as a figure of the imagination to an existence as a free particle."

Cowan and Reines were on the staff at Los Alamos when they made their discovery, achieving international recognition. Subsequently, Cowan held faculty positions at George Washington University and then at Catholic University, both in Washington, D.C., until his death in 1974 at age 54.

Reines once wrote of Cowan: "It was my privilege to have Clyde Cowan as a collaborator during the years at Los Alamos when together we pursued the neutrino. In retrospect I am impressed by the symmetry of our joint efforts — each one listening with sympathy to the torrent of ideas, mostly wild, proposed by the other and attempting to select and constructively modify them until, in a few instances, we hit on a fruitful path."

A native of St. Louis, Cowan graduated from Roosevelt High School and received a bachelor's degree in chemical engineering from the Rolla School of Mines, now the University of Missouri-Rolla. His 99-year-old mother, Esther Cowan, lives in Mehlville, Mo., and his two sisters are in the St. Louis area as well — one, Sister Marian Cowan, C.S.J., lives in Webster Groves. The other, Esther Diekmann, lives in Fulton.

Graduates of program receive certificates

The Center for the Application of Information Technology (CAIT), a division of the School of Engineering and Applied Science, recently hosted an awards ceremony at McDonnell Douglas Corp. for the McDonnell Douglas/Washington University Partnership Program.

Nearly 150 graduates of the program received special certificates of directed studies for their achievements. Awarding the certificates were William P. Darby, Ph.D., the school's vice dean for academic affairs; Curt H. Hartog, Ph.D., CAIT director; and L. Joseph Deney, vice president and chief information officer for McDonnell Douglas.

The 3-year-old program was Deney's vision. CAIT designed the program to address the company's needs to upgrade staff skills in new technologies and information systems practices. Students generally can complete requirements for a certificate in six months. Most classes are held at McDonnell Douglas.

Since mid-1992, more than 3,000 McDonnell Douglas employees have participated in the program, which will offer more than 130 classes this year. CAIT, which was formed in 1976, has begun a similar program at MasterCard International in St. Louis.

For The Record

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

Of note

D. C. Rao, Ph.D., director of the Division of Biostatistics and professor of genetics and of psychiatry, received a \$657,660 four-year grant from the National Institutes of Health for a project titled "A Research Project in Genetic Epidemiology."

Speaking of

During the American Chemical Society's national meeting in Chicago, members of the Department of Chemistry presented papers or posters. The faculty presenters were **James K. Bashkin**, Ph.D., assistant professor; **John R. Bleeke**, Ph.D., associate professor and vice chair; **Robert J. Charity**, Ph.D., research assistant professor; and **Kevin D. Moeller**, Ph.D., associate professor. In addition, **Alicia Beatty**, Ph.D., a postdoctoral research associate and director of the X-ray facility, co-presented a poster. The doctoral candidates who delivered presentations were **Jonathan M. B. Blanchard**, **Gregory R. Bradburn**, **Andrew T. Daniher**, **Lisa A. Jenkins**, **Jianquan Liu**, **Phillip Ordoukhanian**, **Jin Xie** and **George Yeh**. ...

At the 19th International Workshop on Condensed Matters Theories in Caracas, Venezuela, **John W. Clark**, Ph.D., professor of physics, was honored during a one-day symposium in celebration of his 60th birthday. Clark spoke on "Control of Quantum Many-body Dynamics: Designing Quantum Scissors," while his colleagues delivered presentations on sub-

jects representative of Clark's research activities. In addition, **Charles H. Anderson**, Ph.D., research professor of anatomy and neurobiology, delivered a presentation titled "Unifying Perspectives on Neuronal Codes and Processing." ...

Charles M. Drain, Ph.D., a postdoctoral research associate in chemistry, delivered a presentation titled "Self-assembly of a Porphyrin Antenna Complex by Hydrogen Bond Molecular Recognition" at the Pasteur Symposium on Molecular Recognition hosted by The Rockefeller University in New York. The university hosted the symposium in conjunction with the Pasteur Institute in Paris and the Louis Pasteur University in Strasbourg, France. ...

T. Tom Lin, Ph.D., professor of chemistry, presented a seminar on "Free Radical Chemistry of Polyhydroxylated Buckey-ball" for the Department of Chemistry at National Taiwan University in China. In addition, he spoke on "From Conventional to Echo-detected Transient Nutation of the Photo-excited Triplet State" during the 18th international Electron Paramagnetic Resonance Symposium in Denver. ...

Jeffrey J. Neil, M.D., Ph.D., assistant professor of neurology and neurological surgery and of pediatrics and a research associate in chemistry, presented a talk on "Evaluation of Intracellular Diffusion in Rat Brain via Cesium-133 Nuclear Magnetic Resonance" at the Society of Magnetic Resonance's annual meeting in Nice, France. ...

Michael Valente, Ph.D., associate clinical professor of otolaryngology (audiology), presented a paper titled "New Advances in Hearing Aid Technology" during the American Otological

Society and the American Society of Pediatric Otolaryngology's annual meeting in New Orleans. He delivered the presentation during a panel discussion on "Pediatric Sensorineural Hearing Loss."

On assignment

Marilyn J. Siegel, M.D., professor of radiology at the School of Medicine's Mallinckrodt Institute of Radiology and professor of radiology in pediatrics, is president-elect of the Society of Computed Body Tomography and Magnetic Resonance Imaging. She will take office in the year 2000.

Making the news

Diane E. Beals, Ed.D., assistant professor of education, was quoted in the Sesame Street Parents magazine's October 1995 issue. She is featured in a story titled "Nights 'Round the Table," which details how family mealtimes offer parents an opportunity to teach their children emotional growth and language skills. In addition, British Broadcasting Corp. Radio in London interviewed her on the relationship between family mealtimes and preschoolers' language development.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number and highest-earned degree, along with a typed description of your noteworthy activity, to For The Record, c/o Carolyn Sanford, Campus Box 1070, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Sanford at 935-5293.

Alumni to receive awards at Founders Day banquet

Washington University will honor five alumni and three members of the University community at this year's Founders Day banquet on Saturday, Oct. 28, at the Adam's Mark Hotel in downtown St. Louis. The banquet, which commemorates the University's founding in 1853, will begin with cocktails at 6:30 p.m.

Jean Kirkpatrick, Ph.D., former U.S. permanent representative to the United Nations, will be the keynote speaker at the event, which is sponsored by the Washington University Alumni Association.

The Distinguished Alumni Award is given in recognition of outstanding professional achievement, contributions in areas of public service, exceptional service to the University, or any combination of the three. The following alumni will be honored: **Thomas L. Bugnitz**, president of The Beta Group Inc., St. Louis; **August H. Homeyer**, retired vice president and director, Mallinckrodt Inc., St. Louis; **Deborah Stewart Kent**, plant manager, Ford Motor Co., Avon Lake, Ohio; **Robert L. Scharff Jr.**, managing partner, the Todd Organization, St. Louis; and **Arnold B. Zetcher**, president and chief executive officer of Talbots, based in Hingham, Mass.

BUGNITZ received a bachelor's degree in applied mathematics and computer science in 1974. He is a past president of the Alumni Advisory Council and was given the 1992 Engineering Alumni Volunteer of the Year Award in recognition of his extensive service to the School of Engineering and Applied Science. Bugnitz also was director of computer services at the University for 10 years, leaving in 1988 to found The Beta Group Inc., an information technology consulting firm of which he is president.

HOMEYER graduated in 1930 with a bachelor's degree in chemical engineering and went on to receive master's and doctoral degrees in organic chemistry from Pennsylvania State University in 1931 and 1933, respectively. For more than 50 years, he enjoyed a distinguished career at Mallinckrodt Inc., retiring in 1983 as vice president and a member of the board of directors. In recognition of his achievements, Homeyer was a recipient of the engineering school's Alumni Achievement Award in 1981. He and his

wife, Ruth, have endowed scholarships in engineering and science at the University and at Penn State.

KENT joined General Motors as part of the company's management-training program after receiving a master's degree in psychology in 1977. She joined the Ford Motor Co. in 1987 as area manager at the Wixom, Mich., assembly plant and went on to become assistant plant manager at assembly plants in Detroit and Chicago. In 1994, she was promoted to plant manager of Ford's assembly plant in Avon Lake, Ohio, the first African-American woman to head a Ford plant in the company's worldwide manufacturing system. Kent is the recipient of numerous automotive industry awards, including the Ward's Auto World/McCall Magazine 1995 Outstanding Women in Automobile Industry Award.

SCHARFF received a bachelor's degree in business administration in 1965. Along with Jack Minner (BU '50), Scharff established the Minner-Scharff Organization in 1975. The company merged in 1981 with the John O. Todd Organization of St. Louis, a national benefit consulting firm in which Scharff is a managing partner. Scharff's extensive service to the University has included positions as chair of the Alumni Board of Governors and executive chair of his 25th and 30th reunions and service on the Board of Trustees, the Student Affairs Council and the John M. Olin School of Business' alumni executive committee. He has made a leading contribution to the establishment of the Alumni and Parents Admission Program and serves as chair of one of the program's St. Louis committees.

ZETCHER received a bachelor's degree in business administration from the Olin school in 1962 and began a career in retailing with Federated Department Stores immediately thereafter. He later served as chairman and chief executive officer of Bonwit Teller and chairman and chief executive officer of Kohl's Food Stores and the John Breuner Co. Zetcher joined Talbots as president in 1987 and became chief executive officer the following year. He was recognized by Financial World Magazine as the 1995 Chief Executive Officer of the Year for Retail: Apparel and Accessories. In 1993, he

received a Distinguished Business Alumni Award from the Olin school and serves on the school's National Council.

The two Robert S. Brookings awards will be presented to Eugene W. Lohman and to Marion K. and Vernon W. Piper, husband and wife. The awards are given by the Board of Trustees to individuals "who exemplify the alliance between Washington University and its community."

LOHMAN received a bachelor's degree in architectural engineering in 1928. He is the retired president of Chelsea Fan and Blower Co. in Plainfield, N.J., a company founded by Lohman with his father and brother in the mid-1940s. Lohman and his wife, Martha, both life patrons of the William Greenleaf Eliot Society, established the Mr. and Mrs. Eugene W. Lohman Scholarships at the engineering school in 1981. In 1994, Lohman received the Alumni Achievement Award from the school in recognition of his commitment to the University. Lohman received his Robert S. Brookings Award in June because he is unable to attend the Founders Day banquet.

MARION AND VERNON PIPER established the Olin school's first merit-based, full-tuition endowed scholarship for the master of business administration program. The couple also established the school's Vernon W. and Marion K. Piper Chair in Management and funded the Vernon W. Piper Director of Executive Programs. Vernon Piper, who received a bachelor's degree in business administration in 1935, served on the school's challenge capital gifts committee and the Olin patrons committee. He also co-chaired the school's capital gifts committee during the ALLIANCE FOR WASHINGTON UNIVERSITY. He is former president of A.C.L. Haase Co. in St. Louis.

Marion Piper received a bachelor's degree from the University of Illinois and a master's degree from Columbia University's Teachers College. Prior to her marriage, she taught home economics at the University of Missouri-Columbia and served on Pet Inc.'s board of directors. The Pipers' generosity and loyalty to the University is further evidenced in Piper Grand Hall and the Piper Executive Programs Suite in Simon Hall. In 1990, the Pipers were awarded the school's Dean's Medal.

Opportunities & personnel news

Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990.

Admissions Analyst 960074. *Financial Planning.* Requirements: bachelor's degree; strong math and quantitative skills; analytical thinking ability; ability to learn Focus and how to develop reports and analyze admissions. Application required.

Communications Technician I 960076. *Communications Services.* Requirements: high school graduate; training and/or experience in concepts of operation and maintenance of communications equipment; ability to perform strenuous work and heavy lifting; willingness to work flexible hours and overtime; use of personal vehicle required with mileage reimbursement; ability to detect and differentiate the telephone color code. Application required.

Customer Service Representative 960084. *Telephone Services.* Requirements: high school education, some college preferred; willingness to work overtime; willingness to use own vehicle for transportation to and from Hilltop Campus; cour-

teous; professional; superior communication skills; ability to work with minimal supervision. Application required.

News Writer 960088. *Public Affairs.* Requirements: bachelor's degree, preferably in journalism or communications; two years professional journalism experience preferred. Application required.

Interlibrary Loan/Document Delivery Assistant 960089. *Olin Library.* Requirements: two years of college; experience in libraries or courses in librarianship preferred; working knowledge of computers and fax machines; ability to organize workflow and to perform detailed work with accuracy; legible handwriting; reading knowledge of foreign languages helpful; familiarity with major bibliographic sources helpful; ability to work independently with minimal supervision; ability to work well with others and to respond to the public in a courteous and helpful manner; ability to work under pressure; willingness to work afternoons and evenings when classes are in session and days when the library is not open in the evening. Application required.

Biology Lab Technician 960090. *Department of Biology.* Requirements: bachelor's degree; some experience in benchtop biological science; knowledge of, or a willingness to learn, techniques in cell culture and computerized microscopy; experience with recombinant DNA techniques preferred. After

training, technician will carry out experiments independently. Opportunities for co-authorship on scientific papers will be available.

Manager of Accounts Payable 960091. *Accounting Services.* Requirements: bachelor's degree in business, including 15 hours of accounting; three to five years of accounting experience and a working knowledge of accounts payable; knowledge of IRS regulations and systems analysis and electronic payments; excellent interpersonal skills; a service-oriented communicator; team player with the ability to forge relationships and bring groups together on difficult accounts payable issues; willingness to devote the long hours necessary to achieve the University's goals and objectives. Application required.

Scene Shop Supervisor 960092. *Performing Arts Department.* Requirements: some college preferred; budgeting, computer management, mainframe word processing, electrician/electronic tech. Application required.

Facility Manager 960094. *Arts and Sciences Computing Center.* Requirements: bachelor's degree in social sciences, computer science or equivalent experience; demonstrated strong problem-solving skills; attentiveness to detail; experience with UNIX-based operating systems, Lans, Novell and Internet services; ability to work independently in an academic environment;

experience providing support in a highly technical area and commitment to user support; excellent verbal and written communication skills. Application required.

Assistant Director of Development Services 960095. *Development Services.* Requirements: bachelor's degree; knowledge of a programming language; expert knowledge of personal computers, DOS and Windows a plus; knowledge of Lans, database system design; experience with Windows NT or Novell; experience with Lotus notes highly preferred. Application required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a résumé to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, MO, 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

User Support Technician 951068-R. Genetics. Schedule: part time, 20 hours per week, flexible. Requirements: bachelor's degree in molecular biology; experience with common molecular biology software, GCG package, DNA sequencing and assembly software.

Supervisor, Insurance Billing and Collection 960121-R. *Washington University Shared Billing and Collection Services.* Requirements: high school graduate or equivalent; five years related experience, preferably in a medical insurance setting with supervisory duties.

Research Patient Coordinator/Professional 960213-R. *Bone Marrow Transplant.* Requirements: bachelor's or associate's degree in nursing. Responsibilities include acting as a data-control coordinator working data for all areas of the division as well as several protocols now being studied.

Clinical Lab Technician 960215-R. *Obstetrics and Gynecology.* Requirements: bachelor's degree in biology or related field; experience in tissue culture, chromosome identification and basic cytogenetic techniques.

Statistical Data Analyst 960216-R. *Ophthalmology.* Requirements: master's degree in biostatistics, Ph.D. preferred; training and experience in SAS programming; experience with large longitudinal datasets from multicenter studies preferred.

Departmental Accounting Assistant 960221-R. *Ophthalmology.* Requirements: high school graduate or equivalent, some college preferred; experience with Lotus, Macros, PC and Windows.

Assistant Supervisor, Clinical Lab 960246-R. *Lipid Research.* Requirements: bachelor's degree in medical technology (ASCP) or equivalent with four years related lab experience; qualifications as a technical supervisor under CLIA-88 regulations; experience with Laboratory Information Systems and personal computers.

Medical Secretary III 960288-R. *Barnard Cancer Center.* Requirements: associate's degree with five years experience; knowledge of medical terminology; experience with Microsoft Word; typing 50 wpm.

Nurse Practitioner/Physician Assistant 960309-R. *Psychiatry.* Schedule: part time, approximately 10 hours per week. Requirements: GYN nurse practitioner or registered physician assistant; two years clinical experience in gynecology preferred.

Dialysis Tech II 960311-R. *Kidney Center.* Requirements: high school graduate or equivalent; willingness to work Saturdays; experience as a medical assistant, nurse's aide or phlebotomist preferred. Duties include performing all activities of patient care and related functions.

Consumers should know their rights — from page 1

Leasing a car, for example, has many pitfalls, he said. There are no requirements for disclosing the capitalized cost of a car lease or the financing cost that is present in every lease. This means there is no way a consumer effectively can comparison-shop for a leased car, said Greenfield. Likewise, if a car lease is terminated early, the consumer is often at the mercy of the lessor because there are no rules about penalties or other costs. A recent Department of Fiscal Services study has found that leased cars account for 14.4 percent of all car sales.

Greenfield noted that, although the pendulum swings back and forth, there has been some progress in consumer protection over the past 30 years. "Judges often tend to be more sympathetic with the seller than the consumer," noted Greenfield. "But courts are slowly beginning to recognize that consumer transactions are not a product of negotiations between equals but are often one-sided with the advantage going to business."

One of the biggest problem areas, said Greenfield, is deceptive practices by sellers and creditors. Deceptive practices include situations where the "new" car you bought really was previously leased, your demo car already had been sold once before, or your "new" computer contains used parts.

Although there are laws against such deceptive practices on the books, Greenfield said, too often consumers don't do anything about them because they think the amount they lost is too small to warrant their effort. In addition, lawyers often are not aware of relevant statutes or are unwilling to take such cases because of the risk of not being compensated for their services. Greenfield notes that legislation was enacted to provide for recovery of reasonable attorney's fees, but courts often fail to implement it.

Consumer rights

Greenfield worries that consumers often are not fully aware of the legal protections they have. "It's important for consumers to know just what rights they have," he said.

Did you know, for example, that:

- Insurance offers by car dealers and credit card companies are the "biggest

consumer rip-off?" Greenfield said coverage from these types of businesses is the most expensive and least effective way to buy any kind of insurance, whether life, disability or "voluntary unemployment" credit insurance.

- If a product a consumer purchases does not work correctly, the consumer not only has the right to have it fixed or replaced but, in some cases, has the right to sue for damages and attorney's fees?

- A consumer has the right to see his or her credit history report and to correct any mistakes in it?
- The Federal Fair Debt Collection Act states that debt collectors generally may not call between 8 a.m. and 9 p.m. or any other time the consumer said is inconvenient? In addition, a debt collector may not contact the consumer's employer, friends or family to try to pressure the consumer to pay a debt. Nor may a debt collector harass a consumer.

- A consumer may be able to recover damages caused by a debt collector's violation of the Federal Fair Debt Collection Act? Those damages include physical injury, emotional injury and expenses incurred as a result of the collector's conduct.

Efforts are under way to revise the UCC, though that will take many years, said Greenfield, who also predicts that some consumer laws probably will be weakened given the current climate in Washington, D.C.

If you have a complaint about an item or service you purchased, know your rights, advises Greenfield. There are a number of books written for consumers on this topic, he said. In addition, the Federal Trade Commission Bureau of Consumer Protection and the Division of Credit Practices both publish educational brochures. Many states also publish educational material for consumers. In Missouri, for example, the Missouri Division of Finance in Jefferson City produces a series of brochures on consumer credit.

Although it is a jungle out there, consumers with some knowledge of the laws enacted for their benefit at least have a whip in their hands when they enter the lion's den of the marketplace.

— Debby Aronson

Recent graduate fatally beaten

Daniel J. Buckley, an Army lieutenant and recent graduate of Washington University, was fatally beaten outside a bar on Laclede's Landing last Saturday. According to police, he had come to Lucius Boomer's on the Landing to meet seven friends.

Buckley, a graduate of the Class of 1995, had been vice president of Theta Xi fraternity and was in the Army ROTC when he was a student at the University. He also was a reserve linebacker on the football team. At the time of his death, Buckley was assigned to Fort Leonard Wood to complete a four-month officer-training school.

According to newspaper accounts, Buckley and his friends got into an argument with several men at the bar. Both groups were asked to leave. After both groups left the bar, Buckley was beaten severely and died Saturday afternoon.

Buckley is originally from Cincinnati. A funeral service was to be held Wednesday, Oct. 25, in Cincinnati. A memorial service is planned for 5:30 p.m. Thursday, Oct. 26, at Fort Leonard Wood. As the Record was going to press, plans were being made for a service at the University.

For information, call Jay Greenstein, president of Theta Xi, at 935-3101.

Federal charges filed in Aptman case

Federal charges were filed against Andre Bonds in the May 5 murder of Melissa Gail Aptman. The indictment included carjacking and murder. Bryan Cook, Bonds' co-defendant in state court, was not included in the federal indictment. Cook, 16, was charged in July with 10 felonies related to the attack. He has been certified to stand trial as an adult.

Bonds was charged earlier in state court with murder and rape.

Aptman and a friend were abducted from the Dogtown area May 5 after leaving a restaurant on the corner of Tamm and Clayton avenues. Aptman was killed, and her friend was shot. Both were left in the East St. Louis area. The friend survived and has recovered from her wounds.

Campus Watch

The following criminal incidents were reported to the University Police Department Oct. 9-22. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness on campus.

Oct. 9

9 a.m. — A staff member reported damage to a vehicle that was parked in a lot west of the Ann W. Olin Women's Building.

10 a.m. — A staff member reported that a VCR, valued at \$190, was stolen from Olin Library.

12:46 p.m. — A staff member reported that a VCR, valued at \$200, was stolen from the Life Sciences Building.

11:17 p.m. — A student reported the theft of \$300.50 from a room in Wydown East Residence Hall. The money belonged to the Alpha Phi Omega sorority.

Oct. 11

10:05 a.m. — A staff member reported that \$358 in coins was removed from two coin-changers in Olin Library.

Oct. 16

2:47 p.m. — A student reported that several

articles of clothing, valued at \$300, was stolen from a dressing room in the Ann W. Olin Women's Building.

Oct. 18

10:03 a.m. — A student reported that a Sony Walkman and headphones, valued at \$80, were stolen from a desk in Givens Hall.

Oct. 20

2:29 a.m. — An unidentified subject damaged the bricks on the outside of one of the fraternity houses with a pickax. The subject fled when confronted by fraternity members.

3:43 a.m. — An unidentified subject threw a chair through a window at one of the fraternity houses.

University Police also responded to one report of a stolen computer case from the construction site of the new law school building.