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Record

Sept. 7, 2001

Volume 26 No. 3



Washington University in St. Louis

NASA to launch student satellite

By TONY FITZPATRICK

If all goes as planned, NASA will launch a student-built satellite Sept. 17 from the Alaskan spaceport in Kodiak.

The satellite, named Sapphire, was built by the Space Systems Development Laboratory (SSDL) of Stanford University in 1998. However, over the past year dozens of Washington University students have worked with Michael Swartwout, Ph.D., assistant professor of mechanical engineering, on final integration and testing and on a radio tracking system that can receive and record data from the satellite twice per day.

The antenna for the system is on the roof of Lopata Hall on the Hilltop Campus. The University's Amateur Radio Club has donated equipment space to the project. Mission control will be in Lopata Room 102A, site of the Aria laboratory directed by Keith Bennett, affiliate professor of computer science and Project Aria coordinator. Bennett has assisted Swartwout and his students in the Sapphire project with logistics and antenna construction.

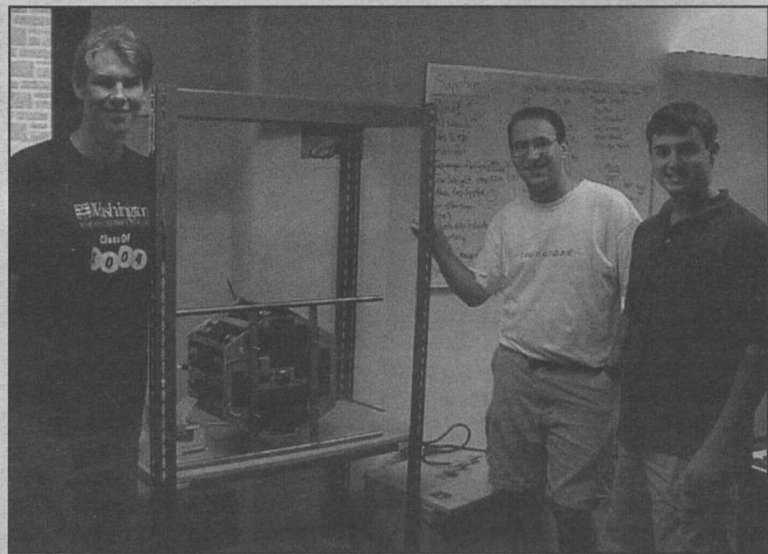
"We'll all have a case of the jitters at launch time," says Swartwout, who will welcome 12 new students to the Sapphire project this fall. "But this has been such a fun and educational

project with more good things to learn as the mission continues. Hopefully, people at Washington University will be able to watch the launch on NASA Select TV."

Swartwout said he is negotiating with the University's cable services to get the NASA TV channel on cable the day of the launch.

The Sapphire mission combines education, amateur radio outreach and technology demonstrations. Sapphire is being sponsored for this launch by the Department of Defense Space Test Program. The spacecraft will be operated by the U.S. Naval Academy in Annapolis, Md.

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(From left) Sophomore Stephen Forbes, senior Barry Tobias and sophomore Dan Livengood, all mechanical engineering students, helped with the final integration and testing of Sapphire, a hexagonally shaped satellite to be launched by NASA Sept. 17.

Law speakers series features Brockovich

By ANN NICHOLSON

Consultant for South Africa's post-apartheid constitution, the national chair of Common Cause, the "real" Erin Brockovich and a U.S. District judge known for landmark civil rights rulings are the fall headliners of the School of Law's Public Interest Law Speakers Series.

Lectures in the fourth annual "Access to Justice: The Social Responsibility of Lawyers" series are held in Anheuser-Busch Hall. They are:

• 3 p.m. Thursday — **Adrien K. Wing**, professor of law at the University of Iowa, on "Global Critical Race Feminism: Legal Reform for the 21st Century." Wing served as a constitutional adviser to the African National Congress and the Palestinian Legislative Council, and is editor of the books "Critical Race Feminism" and "Global Critical Race Feminism." The law school's Institute for Global Legal Studies is co-sponsoring her lecture.

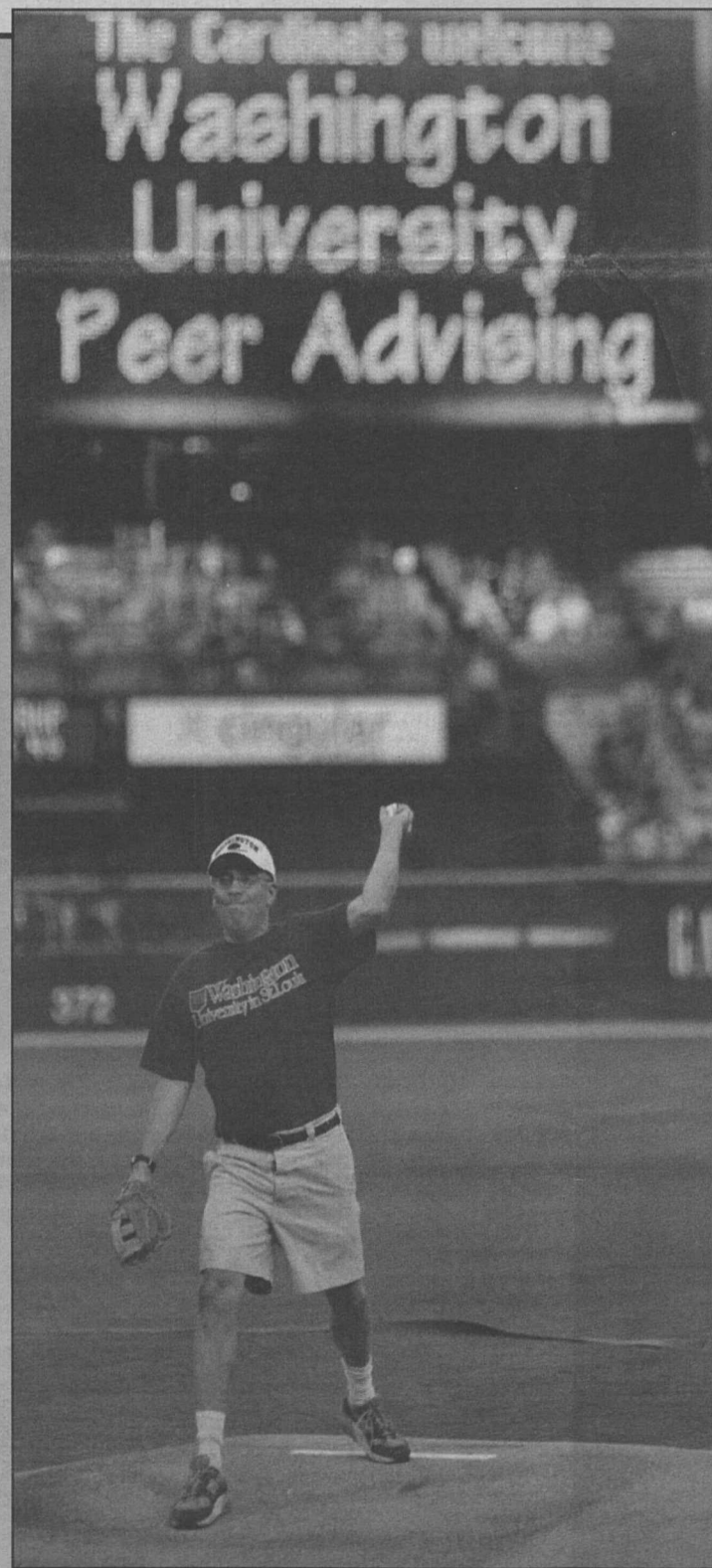
• 4 p.m. Oct. 2 — **Derek C. Bok**, the 300th Anniversary University Professor, president emeritus and former law dean at Harvard University, on "Markets and Mindwork: Is Competition Harming the Practice of Law (and Other Intellectual Pursuits)?" Bok is national chair for the government watchdog group Common Cause and co-author of the book "The Shape of the River: Long-Term Consequences of Considering Race in College and University Admissions." Bok is serving as the law school's 2001 Tyrrell Williams Lecturer.

• 9 a.m. Oct. 5 — **Erin Brockovich**, director of environmental research at the law firm Masry and Vititoe, "A Conversation with the Real Erin Brockovich." Subject of the movie

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Batter up! With a welcome message on an outfield scoreboard behind him, Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, throws out the ceremonial first pitch at the Aug. 28 Cardinals game against the San Diego Padres at Busch Stadium. More than 450 Arts & Sciences freshmen were on hand to cheer the southpaw on for his successful pitch to the plate. The Council of the South 40 and the Arts & Sciences Peer Advising Program organized the freshman night-out at the ballpark.

'Irreplaceable dance treasure' McKayle to talk, present work

By LIAM OTTEN

From Broadway to television to Broadway again, Donald McKayle has pretty much done it all.

A dancer in the original production of "West Side Story" (1957), McKayle has choreographed numerous works for stage and screen; directed the popular television program "Good Times"; and won critical laurels for several major Broadway productions.

Through Sept. 15, McKayle is serving as a Distinguished Visiting Scholar at the University. He is conducting master classes and is coaching students in his work "Rainbow Etude" for the upcoming Washington University Dance Theatre concert. (The annual showcase, scheduled for Nov. 30-Dec. 2, presents professionally choreographed works performed by students from the dance program in the Performing Arts Department in Arts & Sciences.)

McKayle will lead one open master class in "Intermediate Modern Technique" from 11 a.m.-

12:30 p.m. Saturday in the Olin Dance Studio in the Ann W. Olin Women's Building. For more information, call 935-5858.

McKayle also will discuss his legendary oeuvre in a pair of talks. At 4 p.m. Wednesday, he will present an informal lecture-demonstration in the Olin Dance Studio; the event will feature



McKayle: Part of Assembly Series

McKayle and students performing sections of "Rainbow Etudes." At 4 p.m. Thursday in Edison Theatre, McKayle will present a lecture/video screening titled "A Life in Dance" for the Assembly Series.

Named one of "America's Irreplaceable Dance Treasures" by the Library of Congress and the Dance Heritage Coalition, McKayle made his professional debut in 1948 with New York's New Dance Company and later performed in the companies of Sophie Maslow, Jean Erdman, Martha Graham, Merce Cunningham and Anna Sokolow. In addition to "West Side Story," McKayle appeared in Broadway productions of "Bless You All" (1950), "House of Flowers" (1954)

See McKayle, Page 6

Sept maps cellular structures' electrostatics

By TONY FITZPATRICK

David S. Sept, Ph.D., assistant professor of biomedical engineering, has helped enable collaborators at the University of California, San Diego (UCSD), to map the electrostatic potential of a microtubule, a key cellular structure involved in intracellular transport.

Electrostatics describe the way in which the landscape of electrical charges are laid out in a molecular environment; for example, the electric forces that drive the binding of drugs or proteins to microtubules or that place an RNA molecule on a ribosome during translation of genetic information.

The researchers have mapped

both a microtubule and a ribosome, structures that make proteins, using a new computational method that works exceptionally well with very large biomolecular systems. These maps could enlighten researchers about the structure and function of these large macromolecules, including how a drug like taxol, used to treat breast cancer, binds to microtubules.

Sept created a model of a microtubule on the order of 1.2 million atoms. Using this structure, he and his UCSD colleagues applied a new algorithm that allowed them to solve the Poisson-Boltzmann equation. By using this new algorithm, they were able to increase the size of the systems

See Electrostatics, Page 6

Influential arts writer Hickey to give Assembly Series lecture

By Kurt Mueller

Writer and art critic Dave Hickey will deliver a talk at 11 a.m. Wednesday in Graham Chapel as part of the University's Assembly Series.

Hickey is known for his fiction and cultural criticism. His critical essays on art have been collected in two volumes, "The Invisible Dragon: Four Essays on Beauty" (1993) and "Air Guitar, Essays on Art and Democracy" (1998). Hickey's most recent book, "Stardumb" (1999), is a collection of stories with drawings by artist John DeFazio. In addition, Hickey has written many exhibition catalogue monographs on contemporary artists.

An important and influential voice in the art world, he has written for major American cultural publications such as Rolling Stone, Interview, Harper's and Vanity Fair. In addition, Hickey has published a volume of short fiction titled "Prior Convictions."

He is a professor of art criticism at the University of Nevada, Las Vegas. He has served as owner-director of a gallery in Austin, Texas, called A Clean Well-Lighted Place, and as director of

the Reese Pace Gallery in New York City. He was executive editor of Art in America Magazine and also worked as contributing editor to The Village Voice.

Hickey has served as a visiting professor at numerous institutions, has lectured at various



Assembly Series

Who: Writer and art critic Dave Hickey

What: Assembly Series lecture

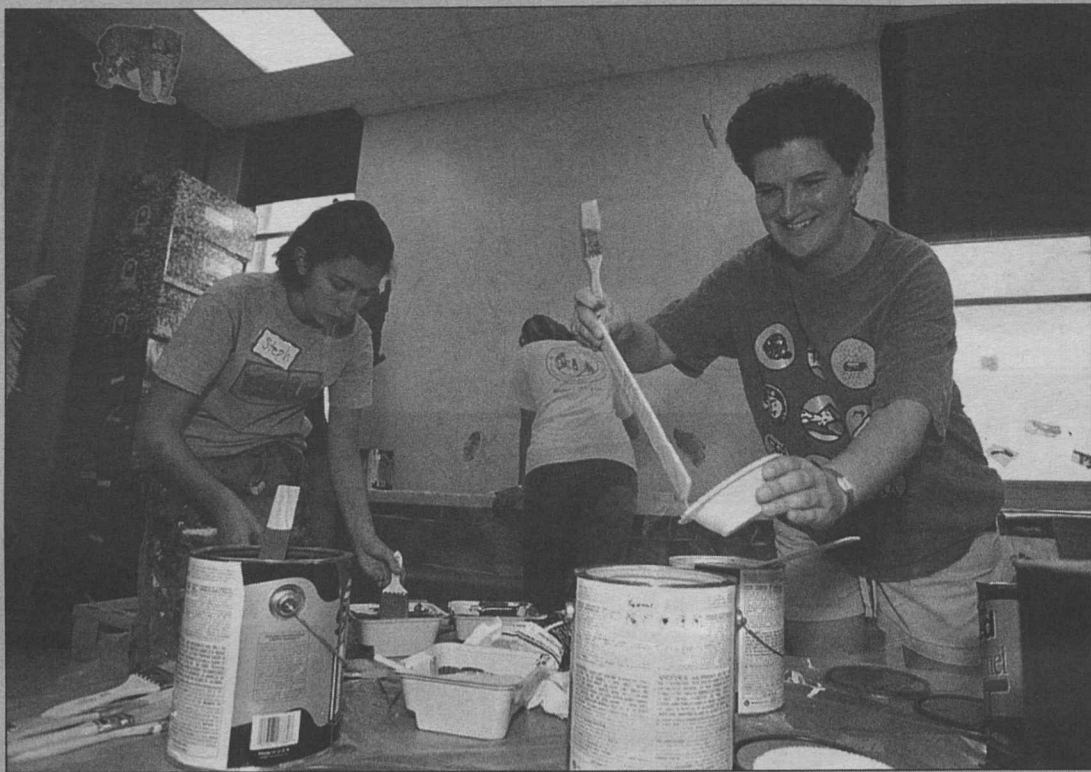
Where: Graham Chapel

When: 11 a.m. Wednesday

Free and open to the public; for more information, call 935-5285 or log on to wupa.wustl.edu/assembly

universities and institutions in America and abroad, and has organized a number of one-person shows for artists. Most recently, Hickey mounted an exhibition titled "Beau Monde: Toward a Redeemed Cosmopolitanism," at the SITE Santa Fe 2001 Biennial. The exhibit opened in July and continues through Jan. 6.

Widely recognized for his insight on American culture and art, Hickey has lectured extensively throughout the world. In 1993, he received the Frank Jewett Mather Award for Distinction in Art or Architecture Criticism. He has also been awarded the Cullinan Chair of Architecture at Rice University.



Putting Service First

Above, Jill Stratton (right), associate director of residential life, paints a mural Saturday in a classroom at Wilson Elementary School as part of the third annual Service First, an initiative that introduces first-year college students to community service. Helping Stratton are freshman Stephanie Meier (left) and sophomore Michelle Miller. At right, freshmen Alan Bannet (left) and Brian Loyal help pull weeds at Mitchell Elementary School. More than 800 students and numerous faculty and staff volunteers helped clean and renovate nine St. Louis Public Schools.



Seismic doubleheader Wiens shows deep earthquakes come in 2s

By Tony Fitzpatrick

Seismologists now know that deep earthquakes like to do just like baseball immortal Ernie Banks liked to: "Play two today."

Douglas A. Wiens, Ph.D., professor of earth and planetary sciences in Arts & Sciences, has seismic wave evidence that many deep earthquakes in the Tonga area of the Southwest Pacific occur at the same spot repeatedly and often occur in pairs. The second earthquake generally has the same magnitude and follows the first within one day.

These earthquake doubleheaders are seldom found for earthquakes at shallow depths, such as along the San Andreas Fault. These results may imply that earthquakes deeper than 300 miles do not represent brittle slips along a fault, as do shallow earthquakes that can be studied more readily.

The results were published in the Aug. 24 issue of Science. The research was supported by the National Science Foundation.

"We noticed some deep earthquake seismograms were identical, showing precisely the same pattern of wiggles each time," Wiens said. "Our research then showed that these earth-

quakes were occurring in the same spot repeatedly. Because these seismograms were so similar, we could tell that part of the fault was slipping over and over again."

The cause of earthquakes deeper than 50 miles has been controversial for several decades. One theory on the mechanism of deep earthquakes is called transformational faulting. In this model, earthquakes occur when material at high pressure deep in the Earth undergoes a phase transformation, similar to when carbon is converted to artificial diamonds in a laboratory. Previous studies had suggested that if deep earthquakes were due to transformational faulting, they should not recur at the same location. But Wiens' observation shows that deep earthquakes often recur at the same location, making this theory less likely.

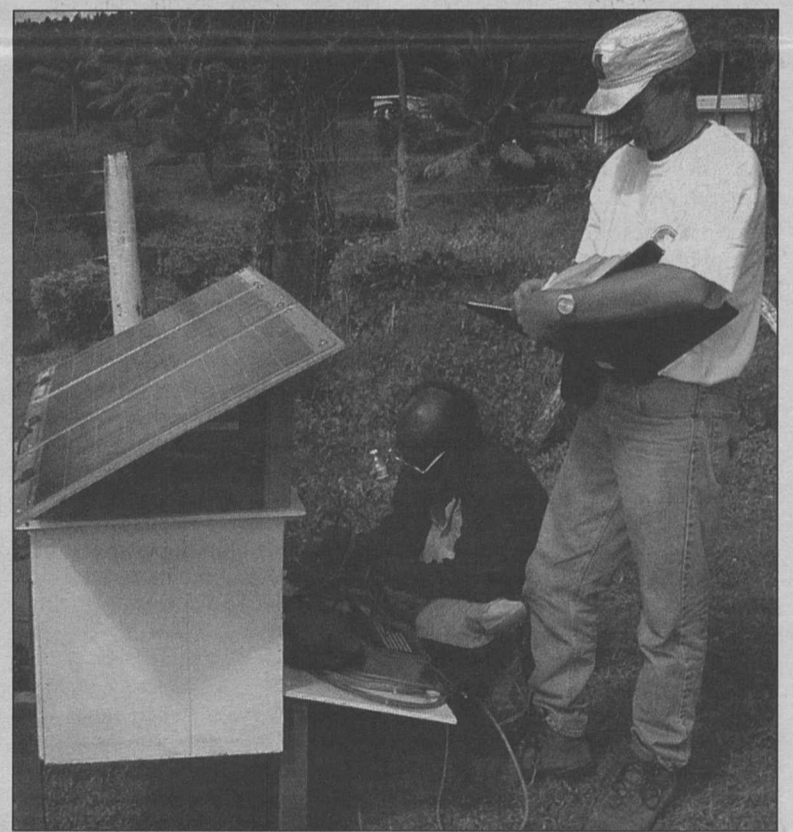
Wiens said the find supports the "ductile shear zone model." In this idea, deep earthquakes are very sensitive to the temperature along a slipping zone. During a deep earthquake, a lot of heat is produced by viscous dissipation, which is similar to friction. This heat then increases the chances of further earthquakes at the same location.

"The data argues against phase transformation," Wiens said. "In phase transformation, after one earthquake happened the materials would have transformed and you couldn't have an earthquake at the same spot. We favor the ductile shear zone model, where the heat generated by the first earthquake seems to make the situation favorable for future earthquakes in a very short time."

Wiens and undergraduate Nathaniel O. Snider used data collected six years ago from an array of 11 seismographs in the Tonga and Fiji islands. They identified three groups of nearly identical earthquakes, each one composed of between 10 and 30 earthquakes.

Wiens and his colleagues recently installed a 26-seismograph array for future data.

"The repeating earthquake seismograms allow us to locate the earthquakes to accuracies of less than one mile, even at depths of 400 miles," Wiens said. "This will allow us to study deep earthquakes by mapping out the individual fault zones, much as geologists have mapped out many small fault zones near the Earth's surface to understand the San Andreas Fault system."



Kiti Draunidalo (left), a scientist with the Fiji Mineral Resource Department, and Douglas A. Wiens, Ph.D., professor of earth and planetary sciences in Arts & Sciences, perform a final check of a seismograph station on the island of Taveuni. The array of seismographs on the island presented Wiens with valuable information on the nature of large, deep earthquakes.

Campus Watch

The following incidents were reported to University Police Aug. 29-Sept. 3. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

Aug. 31

4:20 p.m. — A person was walking near the Mallinckrodt Student Center when someone took her wallet containing \$25 and credit cards. The wallet was in an open handbag hanging from the person's shoulder. She did not notice the suspect reach in and grab the wallet. The theft occurred Aug. 29 between 8:15-8:30 p.m.

Sept. 1

1:52 a.m. — Seven students were caught in a room in the Elizabeth Gray Danforth House with drugs and drug paraphernalia. The incident was referred to the Judicial Administrator.

Sept. 2

3:03 a.m. — A University staff member reported that a laptop

computer was stolen from her locked car parked in front of Anheuser-Busch Hall. Total loss is valued at \$3,000.

Additionally, University Police responded to two reports of theft and automobile accidents, two reports of vandalism, and one report each of outstanding arrest warrant, alcohol violation, and peace disturbance.

Record

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Washington University in St. Louis

Medical School Update



Anthony J. Muslin, M.D. (left), and Jeffrey A. Drebin, M.D., Ph.D., show how they met at last after years of near misses. They have both received a prestigious Burroughs Wellcome Fund clinical scientist award.

Fate smiles on Burroughs Wellcome recipients

BY GILA Z. RECKESS

You never know who you'll run into at a kids' soccer game. Just ask School of Medicine researchers Jeffrey A. Drebin, M.D., Ph.D., and Anthony J. Muslin, M.D.

After growing up in Evanston, Ill., attending the same high school, completing degrees at Harvard Medical School, joining the Washington University medical faculty and enrolling their children at the same elementary school, the first time they met was at their first-graders' soccer game.

Now they have yet another achievement in common: receipt of one of the most prestigious awards for research clinicians — the Burroughs Wellcome Fund's Clinical Scientist Award in Translational Research.

The awards are given each year to mid-level faculty around the country who exhibit "scientific excellence, the potential for translation of their results into the clinical setting and particularly their potential to serve as a mentor for the next generation of physician-scientists." Awardees receive \$750,000 for five years to forward their research.

"The School of Medicine is proud to have two of the 10 national recipients of this award," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "Bridging the gap between basic and clinical research is critical for advancing medicine. Both Drebin and Muslin have already proven to be leaders in their respective areas, and I am confident that they will continue to forward translational science in the future."

Drebin, associate professor of surgery, will use this award to continue his research on colon cancer. Surgery can be curative

but only when performed at an early stage of the disease. The only other treatment option available today is chemotherapy, which can alleviate some of the symptoms but does not cure the disease.

Roughly 80 percent of all patients with colon cancer have a mutation in the gene *APC* (*Adenomatous Polyposis Coli*), which controls the levels of several proteins in the cell. One such protein, β -catenin, has been thought to regulate cell division, but researchers had few ways of directly studying the effect of *APC* on this specific molecule ... until now.

Drebin and his colleagues developed a way to suppress β -catenin without affecting other proteins linked to *APC*. Doing so in mice with the *APC* mutation prevented the development of tumors. The researchers concluded that β -catenin normally tells these cells when to divide. When *APC* fails to keep β -catenin in check, the protein gets out of control and sends too many signals. The result is a mass of overgrown tissue called a polyp, which frequently develops into cancer.

Now that he has managed to slow the development of tumors in mice, Drebin hopes to test his discovery on human tissue samples taken from people with colon cancer and to explore β -catenin in other tumors without the *APC* mutation.

"We're aiming at chemo-prevention in addition to possible

therapy," Drebin said. "If we can give people something to take once a year that makes intestinal polyps go away, they would never get colon cancer. This could be like fluoride treatment for your teeth."

Muslin, associate professor of medicine and of cell biology and physiology, also uses mouse models to get to the root of human illness. His models, however, focus on ways to stop the swelling and thickening of the heart associated with congestive heart failure.

"People think that heart disease is declining, but it's not," Muslin said. "It's still a major killer, and as the population ages and the risk of diabetes increases, the numbers will continue to rise. While we do have some medications that reduce the mortality, they don't attack the cause of the disease."

So Muslin and his colleagues are exploring the molecular basis of heart failure so that new treatments can target the heart of the problem. They are identifying which molecules contribute to the development of heart failure and developing proteins to counter their effect. They already have found that the protein G_q triggers the beginning stages of heart failure in mice and that another protein called RGS4 inhibits that effect.

"This award is intensely competitive," Muslin said. "It's nice to see that people now are acknowledging the need for this line of research."

Diabetes walkathon scheduled for Oct. 7

The School of Medicine is supporting the Juvenile Diabetes Research Foundation (JDRF) Walkathon to be held Oct. 7 in Forest Park. Funds solicited by walkers will benefit JDRF's work to find a cure for

diabetes and its complications, including funds for research projects at the University. The medical school's team is seeking participants and team captains. For more information, call 362-2534.

Bone growth research aims to help children

BY ANNE ENRIGHT SHEPHERD

Researchers at the School of Medicine are starting a series of studies on the developmental and genetic basis of growth, focusing on errors in growth that cause birth defects.

This five-year research effort, funded by a \$5.7 million grant from the National Institute of Child Health and Human Development, will focus on understanding the mechanisms of bone growth and development in children. Skeletal disorders and other congenital malformations are the leading cause of infant mortality in the United States, affecting between 3 percent and 5 percent of newborns.

"This program is the first step toward gaining some insight into the normal biological mechanisms of growth," said Jonathan D. Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics and program director. "If we can understand the genetic mechanisms of growth, we'll understand something about the problems that lead to human malformations."

The program consists of four related projects. Each studies overgrowth from a different perspective.



Gitlin: Director of overgrowth program

By analyzing the genes related to potentially unlimited growth, he expects to gain insight into the mechanisms that can misshape developing human limbs.

The second project will investigate the role of molecules called fibroblast growth factor receptors in bone growth and development in mice. Led by David M. Ornitz, M.D., Ph.D., associate professor of molecular biology and pharmacology, this effort could lead to greater understanding of the relationship between molecules controlling growth and molecules leading to abnormal development.

Leading the third project, Scott Saunders, M.D., Ph.D., assistant professor of pediatrics and of molecular biology and pharmacology, will examine a rare overgrowth syndrome called Simpson-Golabi-Behmel (SGB) syndrome. Children with this disorder may have a variety of symptoms, including large heads, extra fingers or toes, or abnormalities of the heart or kidneys. Studying mice with an equivalent disorder, Saunders will look for clues to the molecular mechanism in humans. Aside from clear benefits to people with this disorder, this analysis will serve patients with other overgrowth syndromes that involve similar biological mechanisms.

In addition, Saunders will collaborate with Michael R. DeBaun, M.D., assistant professor of pediatrics and biostatistics, to create a registry of SGB patients and their families. This comprehensive list will help researchers track long-term outcomes of the disorder, which is associated with a high incidence of certain childhood cancers.

In the fourth project, Gitlin will focus on the influence of dietary copper on fetal bone

growth and development. He studies pregnant mice that lack the ability to process copper, resulting in malformations in their developing offspring. This research may reveal why copper is essential for the nutrition of pregnant women, much as folic acid has been found to prevent neural tube defects in developing babies.

A core research facility on bioinformatics, directed by Bernard H. Brownstein, Ph.D., research assistant professor of molecular microbiology, will help all investigators discover and analyze genetic information relating to skeletal growth. This analysis is instrumental in comparing the mouse genes with those of the zebrafish.

Taken together, the results of this interactive collaboration of basic and clinical scientists will permit new insights into the mechanisms of skeletal growth. As a result, the research could suggest new approaches to treating or preventing human skeletal malformations.

"All of these investigators are looking at the same basic biological problem, but they use different models, from the human to the mouse to the zebrafish," said Gitlin, who also is a professor of pathology and immunology at the medical school and a staff physician at St. Louis Children's Hospital. "By working together, we can perform interactive experiments. Each researcher's findings will immediately be available to the other investigators, and as such the whole should be greater than the sum of the parts."

Adult volunteers needed for bipolar depression study

Investigators at the School of Medicine are seeking volunteers to participate in a research study for bipolar depression.

Bipolar disorder, also known as manic depressive illness, causes people to fluctuate between manic states of inflated self-esteem and impulsive behavior, and depressed times involving sadness, inability to sleep and lack of motivation.

Principal investigator Keith Isenberg, M.D., is joining other researchers across the United States to test the effectiveness of an investigational drug for the treatment of depression in patients with bipolar disorder.

Study volunteers will be evaluated and then randomly given either the investigational drug or a sugar pill. Following the initial eight-week study period, all volunteers will have the option of taking the active drug during a 24-week open label study period.

To be eligible, participants must be at least 18 and have symptoms of depression. They must have experienced at least one manic episode previously. Study subjects will make several visits to the doctor over an eight-month study period. Each visit will last approximately 45 minutes except the initial evaluation, which may take an hour or more. Participants will receive screenings, a physical exam, EKG, laboratory testing and study medication free of charge.

For more information, call study coordinator Dana Downs at 362-5227.

Mini-Medical School returns this fall with new offerings

The University's Mini-Medical School is being offered again Sept. 25-Nov. 13. The eight-week course is open both to University employees and the general public. It is taught on Tuesdays from 7-9 p.m. at the Eric P. Newman Education Center, 320 S. Euclid Ave.

Enrollment this fall will be limited to 110 participants.

Medical school professors teach the sessions, which include lectures on emergency medicine, health-care financing and various diseases in addition to some hands-on training. Attendees

practice suturing techniques, discuss medical ethics and guide minimally invasive surgical instruments.

Information is presented in an easy-to-understand, informal style, and there are no exams. Students are able to talk with faculty after lectures; refreshments are provided. The fee to attend is \$75.

The medical school will also offer a more advanced course, Mini-Medical School III, presented for the first time this fall. Scheduled for 7-9 p.m. on Thursdays starting Sept. 20, this

advanced course also is limited to 110 participants.

Mini-Medical School III features lectures by department heads and world-renowned researchers on such topics as lung transplant and joint replacement followed by formal interviews with patients. Students also will tour the new Rehabilitation Institute of St. Louis. Cost is \$85, and priority will go to graduates of the earlier courses.

For more information or to register for either course, call 867-3627.

University Events

Architecture's Monday Night Lecture Series boasts international lineup

BY LIAM OTTEN

An international array of established and emerging architects will present their work at the University this fall as part of the School of Architecture's Monday Night Lecture Series.

All lectures are free and open to the public and begin at 7 p.m. in Steinberg Auditorium in Steinberg Hall, unless otherwise noted. A reception for each speaker will be held at 6:30 p.m. in Givens Hall.

The series kicks off Monday with **Doug Garofalo**, associate professor at the University of Illinois at Chicago and principal of Garofalo Architects, founded in 1992. Garofalo — one of 10 young architects profiled by *Architectural Record* in December 2000 — is known for employing architectural forms derived from new developments in culture and technology. Recent projects include the Thornton-Tomasetti Engineers Offices, Chicago (1999); the Korean Presbyterian Church of New York, Queens (with Greg Lynn FORM and Michael McInturf Architects, 1999); the Gosczycki Residence, Chicago (2001); and the Manilow Residence, Burlington, Wis. (2001).

The series continues Sept. 17 with Finnish architect **Juha Itonen**, visiting associate professor at Washington University. Itonen is author of "The Other Helsinki — The Reverse Face of Architecture in the City" (1996), which examines Helsinki's hidden courtyards. The book was

nominated for The Finland Prize for Science Books and received honorary mentions as The Science Book of the Year and The Most Beautiful Book of the Year. Recently built projects include the Restaurant Oasis, a boat harbor and filling station facilities in Hietalahdenranta and The Artek House at Tuusula Housing Fair, near Helsinki (both 2000).

Artist and designer **Maya Lin** will present her work for the Assembly Series at 11 a.m. Wednesday, Sept. 26 in Graham Chapel. As a student at Yale University, Lin won the design competition for the Vietnam Veterans Memorial in Washington, D.C. — the most-visited monument in the country.

The series continues Oct. 1 with **Steven Holl**, who is currently developing an \$80 million renovation and expansion to the Nelson Atkins Museum of Art in Kansas City, Mo. Holl was recently named America's Best Architect by *Time* magazine. His boldly chiseled designs put a premium on structural inventiveness and innovation. Early projects include the Pace Collection Showroom, New York (1986), and the American Memorial Library, Berlin (1988). In 1993, Holl won an open competition to design the Helsinki Museum of Contemporary Art, Finland, which was completed in 1998. (Juhani Pallasma, currently the School of Architecture's Raymond E. Maritz Visiting Professor, served as associate architect on the project).

On Tuesday, Oct. 9, **Dan Hoffmann**, professor of architecture at Arizona State University

and former director of architectural studies at the Cranbrook Academy of Art, will discuss his work. Hoffmann is the author of several publications, including "From the Edge of the Horizon: Considerations Upon the Work of Mies Van der Rohe" (1992). At Cranbrook, he oversaw the Campus Master Plan and designed several projects, including the Arrival Plaza (1994, in collaboration, coincidentally, with Pallasma) and the Connections Theatre (1998). His current practice addresses issues of landscape and housing for American Indian and Latino populations in the Southwest.

Kengo Kuma, principal of Kengo Kuma & Associates, Tokyo, will discuss his work Tuesday, Oct. 16. Kuma is renowned for his sensitivity to site, creating works that seem to dissolve effortlessly into nature. Signature projects include the Kiro-san Observatory in Ehime (1994), which is embedded in a mountain, and the Water and Glass Villa in Shizuoka (1995), in which every element is made of glass. Other projects include the Maiton Resort, Resort Complex, Phuket, Thailand (1991); the Tomioka Lakewood Golf Club Club House, Gunma (1996); the Noh Stage in Forest, Miyagi (1996) and the Awaji Service Area, Hyogo (1998).

Daniel Libeskind, architect of the Jewish Museum in Berlin (opening Sunday) and the spiral extension to the Victoria & Albert Museum in London (currently in development), will discuss his work Wednesday, Oct. 17. Libeskind, who was Hoffmann's

predecessor at the Cranbrook Academy, has earned a reputation as one of the world's most radical architects and most intelligent architectural theorists. Recent publications include "The Space of Encounter" (2001) and "Writings of Construction" (1999); recent honors include the German Architecture Prize (1999) and the Goethe Medal (2000). Libeskind is a professor of architecture at the Karlsruhe Hochschule fur Gestaltung in Germany and the Cret Chair at the University of Pennsylvania.

The series continues Oct. 29 with **Gia Daskalakis**, assistant professor of architecture at Washington University and author of "Stalking Detroit" (2001), which both examines that city and sets forth a series of proposals for its reinvigoration. Daskalakis also is co-editor of "The Second Mies van der Rohe Award for Latin American Architecture" (2001); her own architectural work has been widely exhibited, most recently with the nationally touring show "Landscape Urbanism." In 1999, she received an Unbuilt Honor Award for the Hispanic Information & Telecommunications Network Inc. facility at the Brooklyn Navy Yard. Her research interests include investigations of the classical avant-garde as architectural precedent and of the aesthetic contexts of architectural production, from urban intervention projects to ideas of Terrain Vague.

Architect **Bryan Bell**, co-founder of Design Corps in Gettysburg, Penn., will present

his work Nov. 5. Over the past five years, Bell has worked with local social service agencies to create new affordable housing for Pennsylvania farm workers. Designed for a single family or a small group, the prefabricated units draw inspiration from local barns, traditional Mexican architecture and even mobile homes, and cost just less than \$40,000 apiece. Similarly, Bell developed a group of mixed-income townhouses in Gettysburg that managed to balance the town's historic character with its current role as center of the local agricultural industry.

The series concludes Nov. 19 with **Carol Burns**, a founding partner at Taylor MacDougall Burns Architects in Boston and a housing fellow at the Harvard University Joint Center for Housing Studies. Recent completed buildings include a daycare and residence addition to a women's shelter in Boston; the Wampanoag Indian Museum in Mashpee on Cape Cod; and a new social hall for the Episcopal Cathedral in Kansas City. Burns directs the Harvard Institute of Affordable Housing, a professional-development program for designers, developers and advocates. She is currently working on an entrepreneurial academic project in which students will design and oversee the manufacturing of 50 housing units in Rhode Island.

For more information or to request a brochure, call 935-6293.

Al Parker • Sympathetic Neurons • Building a Second Brain

"University Events" lists a portion of the activities taking place at Washington University Sept. 7-19. Visit the Web for expanded calendars for the School of Medicine (medschool.wustl.edu/events/) and the Hilltop Campus (cf6000.wustl.edu/calendar/events/).

Exhibitions

"Al Parker: Innovator in American Illustration" Through Oct. 5. WU Special Collections, fifth floor, Olin Library. 935-5495.

"Thomas B. Allen, Innovator of American Illustration: A Retrospective." Through Sept. 16. Des Lee Gallery, University Lofts Bldg., 1627 Washington Ave. 621-8735.

Lectures

Friday, Sept. 7

9:15 a.m. **Pediatric Grand Rounds.** "State of the Department." Alan L. Schwartz, The Harriet B. Spoeher Prof. and head of dept., pediatrics; and prof. of molecular biology and pharmacology. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. **Cell biology and physiology seminar.** "Subcellular Localization of Ras Proteins: Lessons From Yeast." Robert J. Deschenes, prof. of biochemistry, U. of Iowa, Iowa City. Room 426 McDonnell Medical Sciences Bldg. 362-6040.

4 p.m. **Neuroscience seminar.** "Developmental Interactions Between Sympathetic Neurons and Their Targets." Story Landis, neural development section, National Institutes of Health. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

Monday, Sept. 10

Noon. **Molecular biology and pharmacology seminar.** "Defining Hormonal Responses With Engineered G Protein-coupled Receptors, Transgenic Signaling Molecules and Gene Expression Profiles." Bruce Conklin, investigator and asst. prof. of medicine and pharmacology, Gladstone Inst. of Cardiovascular Disease, U. of Calif., San Francisco. Room 3907 South Bldg. 362-2725.

Noon-1 p.m. **Work, Families and Public Policy Brown Bag Seminar series.** "Gary Becker's Contribution to Household and Family Economics." Robert A. Pollak, the Herinreich Distinguished Prof. of Economics. Room 300 Eliot Hall. 935-4918.

4 p.m. **Chemistry-biology interface seminar.** "A Rationally Designed Prototype of a Molecular Motor." T. Ross Kelly, prof., Boston College. Room 3907 South Bldg. 935-4665.

4 p.m. **Immunology Research Seminar Series.** "Vaccines for Intracellular Pathogens." Herman Eisen, biology dept. and Center for Cancer Research, MIT. Eric P. Newman Education Center. 362-2763.

5:30 p.m. **Mallinckrodt Inst. of Radiology G. Leland Melson Visiting Professorship and Lecture.** "CT/MR of Pancreatic Neoplasms." Alec J. Megibow, prof. and vice chairman of radiology, NYU Medical Center, New York. Scarpellino Aud., first floor, 510 S. Kingshighway Blvd. 362-2866.

7 p.m. **Architecture Monday Night Lecture Series.** "Chicago Works." Doug Garofalo, assoc. prof. of architecture, U. of Ill., Chicago. Steinberg Hall Aud. (reception 6:30 p.m., Givens Hall). 935-6293.

Tuesday, Sept. 11

12:15 p.m. **Molecular Microbiology and Microbial Pathogenesis Seminar Series.** Frontiers in molecular biology seminar. "Reflections on an Earlier Time and Experience." Paul Berg, Cahill Prof. in Cancer Research Emeritus, Stanford U. Moore Aud., 660 S. Euclid Ave. 362-6772.

3:15 p.m. **Physics seminar.** "What Do Meteorites Tell Us About the Formation of the Solar System?" Frank H. Shu, prof. of astronomy, U. of Calif., Berkeley. Room 241 Compton Hall (coffee 3 p.m.). 935-6276.

4 p.m. **Anesthesiology research seminar.** "Neurophysiological Correlates of Urinary Bladder Pain." Timothy Ness, assoc. prof. of anesthesiology; dir. of pain management, Kirklind Pain Treatment Center, Birmingham, Ala. Room 5550 Clinical Sciences Research Bldg. 362-8560.

Wednesday, Sept. 12

8 a.m. **Obstetrics and Gynecology Grand Rounds.** "Office Evaluation of the Infertile Male." Catherine K. Naughton, asst. prof. of urologic surgery; head, male infertility section. Clopton Aud., 4950 Children's Place. 362-1016.

11 a.m. **Assembly Series.** Dave Hickey, art and cultural critic; author, "Air Guitar: Essays on Art & Democracy." Co-sponsored by the School of Art. Graham Chapel. 935-5285.

3:45 p.m. **Physics colloquium.** "Protostellar Winds and Jets." Frank H. Shu, prof. of astronomy, U. of Calif., Berkeley. Room 240 Crow Hall (coffee 3:30 p.m., Room 241 Compton Hall). 935-6276.

4:15 p.m. **Biochemistry and molecular biophysics seminar.** "What Can the Jerker Deafness Mutation Tell Us About the Espin Actin-bundling Proteins?" James R. Bartles, assoc. prof. of cell and molecular biology, Northwestern U. Medical School, Chicago. Cori Aud., 4565 McKinley Ave. 362-0261.

5:15 p.m. **Mothers and Babies Research Center conference.** "The Use of Polarized MDCK Cells to Define the Secretory Pathways of Gonadotropins." Albina Jablonka-Shariff, research fellow in obstetrics and gynecology and in molecular biology and pharmacology. Room 36, third floor south, St. Louis Children's Hosp. 747-0739.

Thursday, Sept. 13

Noon-1 p.m. **Genetics seminar.** "Recent Duplication and the Dynamic Mutation of the Human Genome." Evan Eichler, genetics dept., Case Western Reserve U., Cleveland. Room 823 McDonnell Medical Sciences Bldg. 362-2062.

1:10 p.m. **School of Social Work Lecture Series.** "Advancing Social Work Leadership: The Powerful Policy - Practice Connection." Terry Mizrahi, president, National Assoc. of Social Workers. Brown Lounge, Brown Hall. 935-4909.

3 p.m. **Public Interest Law Speakers Series.** "Global Critical Race Feminism: Legal Reform for the 21st Century." Adrien K. Wing, prof. of law, U. of Iowa, Iowa City. Anheuser-Busch Hall. 935-4958.

4 p.m. **Assembly Series.** "A Life in Dance." Donald McKayle, dancer, choreographer and director. Edison Theatre. 935-5285.

4 p.m. **Chemistry seminar.** Olivier Nicaise, prof. of chemistry. Room 311 McMillen Lab (coffee 3:40 p.m.). 935-6530.

Friday, Sept. 14

9:15 a.m. **Pediatric Grand Rounds.** "Mechanisms of Cell Death Following Neonatal Hypoxic-ischemic Brain Injury." David M. Holtzman, the Charlotte and Paul Hagemann Assoc. Prof. of Neurology and assoc. prof. of molecular biology and pharmacology, Center for the Study of Nervous System Injury. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. **Cell biology and physiology seminar.** "Signal Transduction Mechanisms Guiding Cell Migration in the Nervous System." Yi Rao, assoc. prof. of anatomy and neurobiology. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

4 p.m. **Anatomy and neurobiology seminar.** "Throwing Light on Synaptic Plasticity in New Ways." Jeffery W. Lichtman, prof. of anatomy and neurobiology. Room 928, McDonnell Medical Sciences Bldg. 362-7043.

4 p.m. **Foreign Language Learning Colloquium Series.** "Gender and Interaction in the Language Classroom." Monika Chavez, assoc. prof. of German and applied linguistics, U. of Wis., Madison. Co-sponsored by The Teaching Center and the dean of the faculty of Arts and Sciences. Room 162 McDonnell Hall. 935-5175.

Monday, Sept. 17

10 a.m. **Center for Mental Health Services Research seminar.** "Research Agenda for Racial Disparities in Mental Health Services." Lionel Scott, research assoc., Center for Mental Health Services Research. Room 39 Goldfarb Hall. 935-5687.

Noon. **Molecular biology and pharmacology research seminar.** "Building a Second Brain: Enteric Neural Crest Development." Robert O. Heukerth, asst. prof. of pediatrics and of molecular biology and pharmacology. Room 3907 South Bldg. 362-2725.

Noon. **Neurology and neurological surgery research seminar.** "Role of apoE on A-Beta Metabolism: Insights From a Transgenic Mouse Model of Alzheimer's Disease." Anne Fagan-Niven, research asst. prof. of neurology. Schwarz Aud., first floor, Maternity Bldg. 362-7316.

4 p.m. **Chemistry-biology interface seminar.** "How Are Peptide Antibiotics Macrocyclized Enzymatically?" Christopher Walsh, prof., Harvard Medical School. Room 458 Louderman Hall. 935-4665.

7 p.m. **Architecture Monday Night Lecture Series.** "The Other Helsinki." Juha Itonen, visiting assoc. prof., Helsinki, Finland. Steinberg Hall Aud. (reception 6:30 p.m., Givens Hall). 935-6293.

Tuesday, Sept. 18

Noon. **Molecular Microbiology and Microbial Pathogenesis Seminar series.** "The Role of Lipids and Lipid Secretion in the Pathogenesis of *Mycobacterium tuberculosis*." Clifton E. Barry, chief, Tuberculosis Research Section, NIH. Cori Aud., 4565 McKinley Ave. 362-8873.

4 p.m. **Anesthesiology research seminar.** Eileen Lafer, assoc. prof. of biochemistry and dir., UTHSCSA Surface Plasmon Resonance Lab., U. of Texas Health Science Center, San Antonio. Room 5550 Clinical Sciences Research Bldg. 362-8560.

Wednesday, Sept. 19

8 a.m. **Obstetrics and Gynecology Grand Rounds.** "History of the OB/GYN Department of Washington University." Yasmine Kareem, chief resident, obstetrics and gynecology dept. Clopton Aud., 4950 Children's Place. 362-1016.

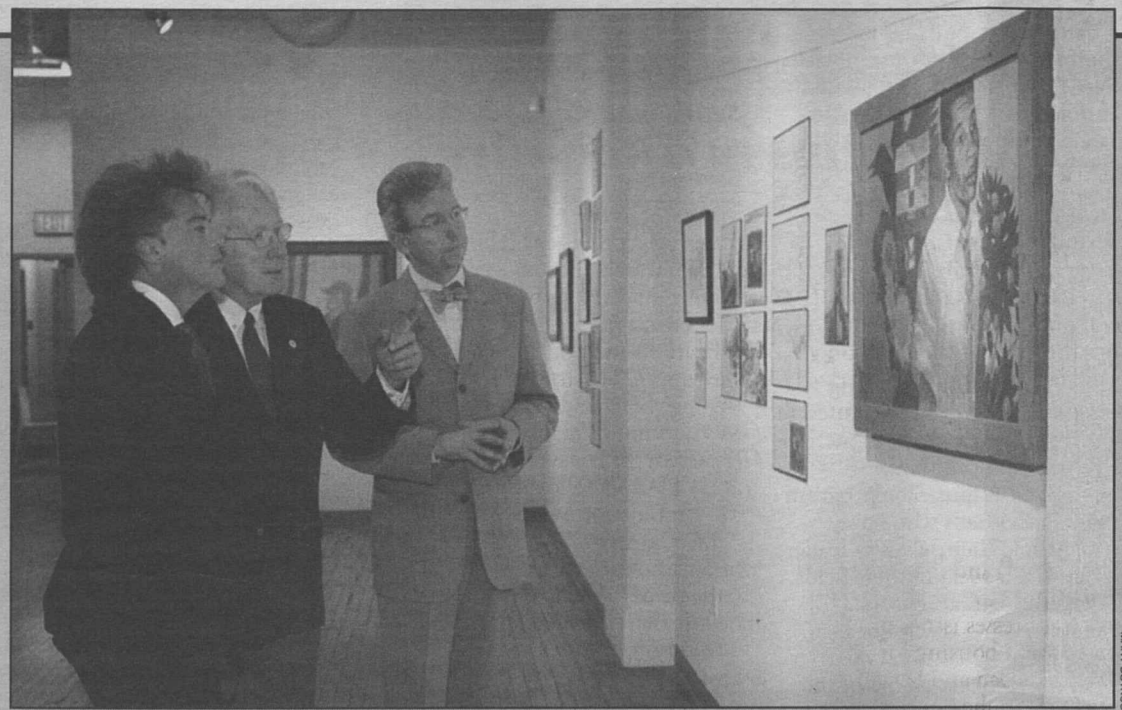
11 a.m. **Assembly Series.** Robert Frank, author and prof. of economics, Cornell U. Co-sponsored by the economics dept. Graham Chapel. 935-5285.

Music

Friday, Sept. 14

8 p.m. **Acoustic City Concert Series.** Eddie from Ohio, which Sing Out! Magazine calls "contemporary folk-on-steroids." Cost: \$12 in advance, \$14 at the door (free for Washington U. students, staff and faculty). The Gargoyle. 935-7576.





Master illustrator (Left to right) Country music recording artist Marty Stuart discusses a portrait of Medgar Evers with artist Thomas B. Allen and Jeff Pike, dean of the School of Art. Stuart, who helped organize an exhibition — "Thomas B. Allen, Innovator of American Illustration: A Retrospective" — for the School of Art's Des Lee Gallery, 1627 Washington Ave., was in town for the opening Aug. 31. The exhibition runs through Sept. 16; for more information, call 621-8735.

'Work, Families and Public Policy' luncheon seminars

By ANN NICHOLSON

Faculty and graduate students with an interest in topics relating to labor, households, health care, law and social welfare are invited to take part in a series of Monday brown-bag luncheon seminars during the fall semester.

The "Work, Families and Public Policy" series features one-hour presentations on current research interests of faculty from across campus and from other universities. The presentations, which are held in Eliot Hall Room 300, run from noon-1 p.m. and are followed by a half-hour discussion period. The seminars are:

• Monday — **Robert A. Pollak**, Ph.D., the Hernreich Distinguished Professor of Economics in Arts & Sciences and the Olin School of Business, on "Gary Becker's Contribution to Household and Family Economics."

• Sept. 24 — **V. Joseph Hotz**, Ph.D., professor of economics at the University of California, Los Angeles, on "Games Daughters and Parents Play: Teenage Childbearing, Parental Reputation and Strategic Transfers."

Brown-bag luncheon seminars

What: "Work, Families and Public Policy"

When: noon-1 p.m. Mondays; half-hour discussions follow

Where: Eliot Hall Room 300

More information: 935-4918 or 935-6691

• Oct. 8 — **Ronald B. Mincy**, Ph.D., the Maurice B. Russell Professor of Social Policy and Social Work Practice at Columbia University, on "Employing Low-Skilled Men: Resolving the Debate on Marriage and Marriageability in Legislation on Fathers and Families."

• Oct. 22 — **Pierre-André Chiappori**, Ph.D., professor of economics at the University of Chicago, on "Collective Labor Supply and Children."

• Nov. 5 — **Glenn MacDonald**, Ph.D., the John M. Olin Distinguished Professor of Business, Law and Economics at Washington University, on "Economics, Demography, and

Communication."

• Nov. 19 — **Anne Winkler**, Ph.D., associate professor of economics and public policy administration at the University of Missouri-St. Louis, on "Who is 'Bringing Home the Bacon' in Black and White Married-Couple Families and Why?"

Pollak and Michael Sherraden, Ph.D., the Benjamin E. Youngdahl Professor of Social Development and director of the Center for Social Development at the George Warren Brown School of Social Work, organize the series.

The series is sponsored by the schools of business and social work; the Center for Social Development; the Business, Law and Economics Center; the Department of Economics; the Graduate School of Arts & Sciences; and the Committee on Social Thought and Analysis. The room is provided courtesy of the Murray Weidenbaum Center on the Economy, Government, and Public Policy.

For more information, contact Pollak at 935-4918 (pollak@olin.wustl.edu) or Sherraden at 935-6691 (sherrad@gwbssw.wustl.edu).

GWB fall lecture series addresses leadership, pressing social issues

By ANN NICHOLSON

The George Warren Brown School of Social Work's fall lecture series will span topics from the leadership role of today's social workers to pressing social issues such as federal housing policy, faith-based organizations and social service delivery, and political challenges to advocacy.

The lectures, which are free and open to the public, are held at 1:10 p.m. on Thursdays in Brown Hall Lounge. Lectures in the series are:

• Thursday — **Terry Mizrahi**, Ph.D., president of the National Association of Social Workers, on "Advancing Social Work Leadership: The Powerful Policy-Practice Connection." Professor of social health and mental health policy at the Hunter School of Social Work in New York, Mizrahi is a leading advocate for patients' rights, health- and managed-care reform and social work in health care.

• Oct. 18 — **Cheryl Lovell**, executive director of the St. Louis Housing Authority, on "The Influence of Federal Housing Policy on the Provision of Social Services to Low Income Residents." Lovell has been credited with enabling more people to live in adequate housing and making positive changes within the authority, which administers low- and moderate-income public housing programs for the city of St. Louis.

• Nov. 1 — **Robert Wineburg**, Ph.D., professor of social work at the University of North Carolina at

Lecture series

What: George Warren Brown School of Social Work

When: 1:10 p.m. Thursdays

Where: Brown Hall Lounge

More information: 935-4909

Greensboro, on "Faith Based Organizations: The Politics of Religion, Welfare and Social Service." Wineburg is a nationally recognized speaker on President Bush's faith-based initiative and is the author of a recent book on the role of religious organizations in the delivery of social services. He cites the chaos caused by governmental policy changes, and demonstrates that the religious community — while playing an important role — cannot be the sole provider of a complex system of social services.

• Nov. 29 — **Joan Kelly Horn**, former Missouri congresswoman, on "Navigating Political Systems: Challenges to Advocacy." A Democrat, Horn served the 2nd District from 1991-93. She also has held positions with the U.S. Defense and Commerce departments and has tackled numerous social issues through leadership roles with the Regional Violence Prevention Initiative, St. Louis County Office of Community Development, St. Louis Housing Authority and St. Louis Community Development Agency.

For more information on the lecture series, call 935-4909.

Sports

Football opens by beating Westminster

Sophomore Bobby Collins Jr. rushed for 152 yards on 21 carries as the University's football team won a school-record 12th straight season opener with a 34-27 win at Westminster College Saturday in Fulton, Mo. The Bear run defense was sharp, holding the Blue Jays to minus-31 yards rushing. Sophomore Jonathan Feig hit a pair of field goals and Mike Friedman scored a pair of rushing touchdowns, the first of his career. Quincy Davis was big on special teams, taking back a kickoff 85 yards for a score and scooping up a blocked Westminster point-after and running it back 90 yards for a two-point conversion.

Volleyball rolls; Rotello named MVP

The University's fourth-ranked volleyball team opened the season by posting four 3-0 wins at the Thomas More College/Skyline Chili Classic Sept. 1-2 in Crestview Hills, Ky. On the first day, Cindy McPeak tallied 12 kills and Rebecca Rotello had 31 assists as the Bears knocked down the University of Wisconsin-Platteville, 30-24, 30-20, 30-21. In the day's second match, WU beat Denison University by a 30-19, 30-15, 30-25 score. Rotello again had 31 assists and added seven kills. On the second day, the Bears beat Indiana University-Southeast by a 30-18, 30-24, 30-22 count. Rotello finished the weekend with a 31-assist, seven-kill performance in a 30-21, 30-19, 30-21 win over host Thomas More and was named the tournament's most valuable player. Amy Brand, who hit .438 on the weekend, was also named all-tournament.

Men's soccer battles tough at Wheaton

The men's soccer squad pounded out a solid 2-0 win against Franklin & Marshall College of Pennsylvania in Aug. 31's first round of the Bob Baptista Invitational at Wheaton College in Illinois. Brandon Pierce scored on a free kick and Scott Siebers scored an insurance goal to seal the win. Giles Bissonnette made four saves in goal to get the shutout. On Saturday, the Bears took on perennial national power Wheaton in the championship game and battled the hosts to a 1-1 tie. Wheaton would take the title with a 4-3 edge in penalty kicks after the two teams battled through two scoreless overtimes. (The game officially goes down as a tie.)

Women's soccer crushes Cornell, 8-0

The season opener was a good one for the women's soccer team as the Bears blitzed Cornell College, 8-0, Sunday in Mt. Vernon, Iowa. Senior Lauren Hyer got things started as she scored from 30 yards out on an assist from Brenda Harpole at 19:45. Harpole then got a goal of her own, one of two on the day with help from Kara Karnes. The floodgates then opened in the second half as the Bears buried six goals. Kim Raess and Stacy Trent each scored to extend the lead to 4-0, Megan Drews got the first of her two second-half goals, Harpole got her second and Caroline Waggenspack tallied. Stephanie Peters played the first half in goal, making three saves and getting the win. Readie Callahan and Casey Herrforth worked the second half to seal the shutout.

Sports

Friday, Sept. 7

4 p.m. **Volleyball WU Classic** vs. Westminster College, Fulton, Mo. (Also 8:30 p.m. vs. U. of St. Francis, Joliet, Ill.) Field House. 935-5220.

Saturday, Sept. 8

10 a.m. **Volleyball WU Classic** vs. Webster U., St. Louis. (Also 3 p.m. vs. Concordia U., Moorehead, Minn.) Field House. 935-5220.

6 p.m. **Football** vs. Ill. Wesleyan U., Normal. Francis Field. 935-5220.



Wednesday, Sept. 12

7 p.m. **Men's soccer** vs. Westminster College, Fulton, Mo. Francis Field. 935-5220.

Thursday, Sept. 13

7 p.m. **Volleyball** vs. Juniata College, Huntingdon, Pa. Field House. 935-5220.

Friday, Sept. 14

4 p.m. **Volleyball WU National Invitational** vs. U. of Wis., La Crosse. (Also 8:30 p.m. vs. U. of Puget Sound, Tacoma, Wash.) Field House. 935-5220.

7 p.m. **Women's soccer** vs. Carleton College, Northfield, Mich. Francis Field. 935-5220.

Saturday, Sept. 15

10 a.m. **Volleyball WU National Invitational** vs. Ohio Northern U., Ada. (Also 3 p.m. vs. U. of Wisconsin, Whitewater.) Field House. 935-5220.



Sunday, Sept. 16

3 p.m. **Women's soccer** vs. Fontbonne College. Francis Field. 935-5220.

Wednesday, Sept. 19

7 p.m. **Volleyball** vs. Fontbonne College. Fontbonne College, St. Louis. 935-5220.

And more...

Saturday, Sept. 8

7:30 a.m. **Continuing Medical Education seminar.** "Practical Management of Arrhythmias." Cost: \$55 (includes breakfast and lunch). Eric P. Newman Education Center. 362-6891.

11 a.m. **Olin Dance Studio master class.** "Intermediate Modern Technique." Donald McKayle, dancer and distinguished visiting

scholar. Olin Dance Studio, Ann W. Olin Women's Bldg. To register, call 935-5858.

Tuesday, Sept. 11

9:30 a.m. **ScienceDirect.** "Web resources for the World's Scientific, Technical and Medical Research Community." (Also Sept. 12, same time.) Co-sponsored by the Bernard Becker Medical Library and ScienceDirect. Sea Shell Lobby, McDonnell Medical Sciences Bldg. 362-4736.

Wednesday, Sept. 12

4 p.m. **Dance Program lecture-demonstration.** Donald McKayle, dancer and choreographer, will discuss his legendary *oeuvre* and PAD students will perform sections of "Rainbow Etudes." Olin Dance Studio, Ann W. Olin Women's Bldg. 935-5858.

Saturday, Sept. 15

9 a.m. **Professional development workshop.** "Building Your First Web Page." Rob Compton, manager, Arts & Sciences Computing Center. Cost: \$30. Room 14 Eads Hall. To register, call 935-6759.



Tuesday, Sept. 18

Noon-1 p.m. **Toastmasters event.** Sponsored by Washington U. Toastmasters for Oratorical Readiness (WUTFOR). Room 1140A, 4480 Clayton Ave. 286-0133.

McKayle

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and "Copper and Brass" (1957). McKayle has choreographed more than 50 works for companies in the United States, Europe, Israel and South America. Early pieces include the classic "Games" (1950), which examines the dangers faced by urban schoolchildren, as well as the popular "Rainbow 'Round My Shoulder" (1959) and "District Storyville" (1962), which remain in the repertory of the Alvin Ailey Company.

Following a stint as artistic director for the Inner City Repertory Dance Company of Los Angeles, McKayle returned to Broadway, directing "Raisin" (1974), "Dr. Jazz" (1975) and "Sophisticated Ladies" (1981), the latter based on the life of Duke Ellington. Other theatrical works

include "N'Orleans" (1981), a musical play co-written with Toni Morrison and Dorothea Freitag, "Emperor Jones" (1984) and "Stardust" (1990).

Beginning in the mid-1960s, McKayle began to choreograph dance sequences for film and television. Credits include "The Bill Cosby Special" (CBS, 1967), "The Motown Special" (NBC, 1968), "The Great White Hope" (1969), "Bedknobs and Broomsticks" (1970), "The 49th Annual Academy Awards" (ABC, 1977) and "The Jazz Singer" (1980), among others. He directed the first few episodes of "Good Times" in 1974.

McKayle's numerous honors include five Tony Award nominations, the NAACP Image Award (for "Sophisticated Ladies"), an Emmy Award nomination, the Samuel H. Scripps/American Dance Festival Award, the Capezio Award, the Heritage Award, the Living Legend Award and the Outer Critics Circle Award.

McKayle currently serves as professor of dance at the University of California, Irvine, and maintains relationships with several distinguished troupes, including Alvin Ailey American Dance Theatre, the Dayton Contemporary Dance Company, the Cleo Parker Robinson Dance Ensemble, the Limón Dance Company, the Los Angeles Contemporary Dance Theatre and the Cleveland San Jose Ballet.

The Distinguished Visiting Scholars Program was instituted in 1998 as part of an effort to increase the representation of minority scholars on campus. The program honors individuals who have distinguished themselves as leaders or potential leaders in their fields, whether the arts, academia, business or other disciplines. During their stay, scholars participate in the intellectual life of the campus by teaching seminars, giving lectures and interacting with faculty and students, particularly undergraduates.

Electrostatics

Sept's mapping could help understanding of function

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they could model from less than 50,000 atoms to more than an unprecedented million atoms.

The work was published in the Aug. 28 Proceedings of the National Academy of Sciences and was overseen by J. Andrew McCammon, the Joseph E. Mayer Professor of Theoretical Chemistry at UCSD and a Howard Hughes Medical Institute investigator.

McCammon likened the ability to pick out one atom within such a large three-dimensional system as being able to specifically describe one cherry within an entire fruit tree.

"We've achieved a new landmark in the scale of cellular structures that we can model from a molecular perspective," McCammon said. "The work signals a new era of calculations on cellular-scale structures in biology."

"The calculations were done in a highly scalable fashion and would be suited to even larger runs," said UCSD's Nathan Baker, Ph.D., a postdoctoral researcher in McCammon's lab, and first author of the paper who did a majority of the computer implementation. "We hope to push the envelope even further and to tackle a number of large-scale problems in intracellular activity such as antibiotic binding to ribosomes."

The rest of the research group was comprised of Michael Holst, Ph.D., UCSD associate professor of mathematics, and Simpson Joseph, Ph.D., UCSD assistant professor of biochemistry.

The calculations were performed at the San Diego Supercomputer Center (SDSC) at UCSD on Blue Horizon, a large IBM supercomputer supported by the National Partnership for Advanced Computational Infra-

structure.

Sept and his colleagues used a new algorithm (Bank-Holst) that solved the Poisson-Boltzmann equation, enabling them to calculate the electrostatic potentials. The new computational method assigns a small portion of the calculation to each available processor on the computer. Those processors then solve their portion of the equation and pass the results along to a "master processor" that gathers and processes the data.

Blue Horizon completed the calculations for the equation relating to the microtubule in less than an hour using 686 processors available out of 1,152.

The maps depict an atom-by-atom rendering of the electrostatic potential of microtubules and ribosomes.

As a result of their calculations on the microtubule, the researchers discovered some areas of positive potential in the overall negatively charged microtubule. They said that while the negative charge likely plays a strong role in intracellular transport, the overall topography points to regions where drugs like taxol and colchicine may bind. Likewise, the electrostatic map of the ribosome revealed a subunit area that may play roles in stabilizing RNA molecules during translation of genetic information.

Sept and his colleagues created the microtubule from the known structure of the tubulin dimer, which is the protein that forms the building blocks of microtubules.

"It's like we knew what the structure of a brick was, but not the structure of a house," said Sept, who did his postdoctoral work with McCammon. Sept joined the University faculty earlier this year.

"Now we have a better understanding of the house. We now are better able to calculate on much larger structures, beyond simple proteins and molecules, eventually to the cellular level."

Satellite

— from Page 1

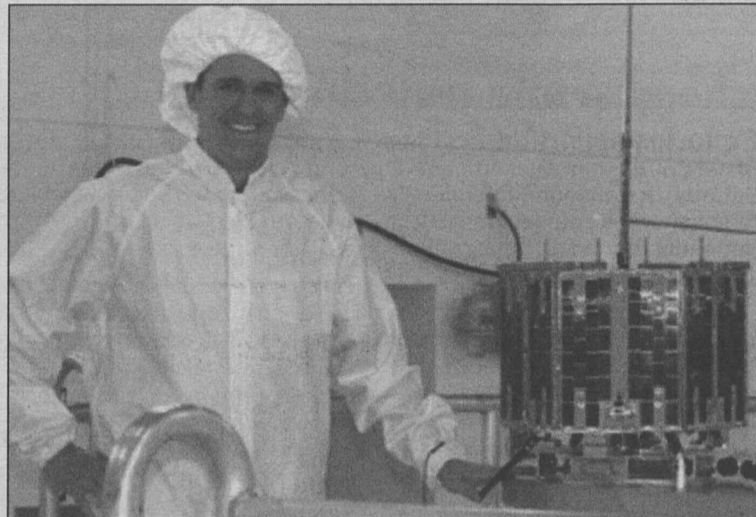
The 50-pound Sapphire is made of four stacked aluminum honeycomb trays with six solar panels around the sides and solar panels on the top and bottom. These solar cells, together with the nickel-cadmium battery pack, generate an average of eight watts. Most of Sapphire's components are commercial electronics, modified and tested for space flight. The onboard computer runs a student-written operating system.

Sapphire and other spacecraft, one sponsored by NASA and two by the Department of Defense, will be launched by a Lockheed Martin Athena I rocket that is approximately six stories tall.

Sapphire is designed for one year of operation and will orbit Earth at a 67-degree angle nearly 500 miles above the surface. Traveling at more than 16,000 mph, it will pass the University's radio antenna two to three times per day.

University students, under Swartwout's guidance, will be performing initial checkout of the spacecraft after launch and supporting the Naval Academy as backup operators. A part of the spacecraft's separation system — which pushes it from the rocket — was built by Washington University graduate student Kyle Ressler.

Sapphire's primary mission is to test a new kind of infrared sensor developed at Stanford University called a tunneling horizon detector (THD). So small that it fits on a microchip, the THD operates at room temperature but the hope is that it can function well in the vacuum and radiation found in space. Sapphire operators will



Michael Swartwout, Ph.D., assistant professor of mechanical engineering, worked with students on the satellite Sapphire (right).

monitor its behavior and send data back to the professor who developed it.

Also, an inexpensive digital camera will be tested to see if it can record geographical features. And the Beacon Monitoring System, developed by Swartwout and a colleague at Santa Clara University, will conduct experiments. The system is an experimental method for automatically measuring spacecraft health and relaying the information to operators in mission control using a network of low-cost receiving stations.

"The beacon system is a way for the spacecraft to take care of itself," Swartwout said. "It's a very labor-intensive process on the ground to do this now. We want to see if the system will send us data only when it's important for us to look in on it."

This is the first time these instruments will be tested in space.

SSDL and Swartwout started on Sapphire in 1994 while he was a graduate student and completed the spacecraft in 1998. During that time, SSDL also started a second project, Opal,

which launched in 2000. Swartwout had joined the University faculty in 1999.

While he would like to be present at the launch — which is far less dramatic than the launch of a manned mission — Swartwout wants to be at his mission control site to see things through.

"This is the first space mission that I've been involved with prominently, though we learned a lot from the Opal experience," Swartwout said. "From a student perspective, it's a fantastic experience to learn all of these things. While I'd love to see it launch, I'm one of the few here who know all of the details of the equipment and logistics, so it's pretty important to be here to get things rolling."

Sapphire is scheduled to enter its orbit somewhere off the east coast of Africa. Lockheed Martin will have a signal that confirms that the spacecraft was released.

"We'll have to wait the better part of a day — about 16 hours — when it tracks over here to confirm that everything is on and is working," Swartwout said. "That will be a nervous time."

District of California, on "Social Change, Judicial Activism and the Public Interest Lawyer." Henderson is a former attorney with the U.S. Department of Justice and former directing attorney of the East Bayshore Neighborhood Legal Center. His landmark decisions have spanned issues related to the rights of Vietnam veterans exposed to agent orange, Federal Clean Air Act standards, Marine Mammal Protection Act provisions protecting dolphins, affirmative action measures for minority contractors, and a U.S. Department of Defense discriminatory policy against gays and lesbians.

Speakers in the spring lineup include Anthony Thompson, New York University law professor and author of "Stopping Usual Suspects: Race and the Fourth Amendment";

Michael Traynor, president of the American Law Institute and an expert in biotechnology law; and civil rights lawyer and activist Morris Dees, co-founder of the Southern Poverty Law Center, whose lecture will be in Graham Chapel as part of the Assembly Series and is co-sponsored by the George Warren Brown School of Social Work. Also rounding out the spring lineup are Richard Baron, chief executive officer of McCormack Baron and Associates Inc.; Carrie Menkel-Meadow, Georgetown University professor of law and author of "Mediation: Theory, Practice and Policy"; and Peter H. Raven, director of the Missouri Botanical Garden and the Engelmann Professor of Botany in Arts & Sciences at Washington University.

For more information, call 935-4958.

Employment

Use the World Wide Web to obtain complete job descriptions. Go to <https://hr.wustl.edu/> (Hilltop) or <http://medicine.wustl.edu/wumshr> (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Research Technician 00256

Research Assistant 01023

Administrative Secretary 010032

Senior Medical Sciences Writer 010108

Senior Prospect Researcher 010236

Reference/Subject Librarian (Psychology) 010241

Reference/Subject Librarian (German) 010242

Research Technician 010250

Deputized Police Officer 010273

Site Operator/Technician 010279

Catalog Librarian 010290

Regional Director of Development 010314

Department Secretary (part time) 010317

Administrative Assistant I 010333

Custodian and Maintenance Assistant (part time) 010349

Administrative Assistant (part time) 010358

Associate Director, BSBA Advising and Student Services 010375

Administrative Assistant of International Writers Center 010379

Associate Director of Capital Projects 010385

Reference/Subject Librarian 010387

Assistant Technical Director 010391

Assistant Director Corporate/Foundation Prospect Management Systems 010398

Event Coordinator 010399

Serials Librarian 010415

Accountant 010416

Director of External Programs 020001

Regional Director of Development 020005

Admissions Counselor (part time) 020007

Director of Corporate Outreach/Executive Programs 020008

Government Grants Specialist II 020020

Department Secretary 020021

Editor's Assistant (part time) 020022

Receptionist/Secretary 020025

Administrative Assistant 020026

Technical Director 020028

Library Technical Assistant (Support Services) 020032

Grants Coordinator 020033

Accounting Assistant 020035

Career Center Project Leader 020039

Associate Coordinator of Gift Acknowledgements 020042

Receptionist 020043

Administrative Assistant 020044

Departmental Secretary 020045

Accounts Receivable Service Representative 020047

Administrative Assistant 020050

Lab Technician 020052

Media/Editorial Advisor 020053

Research Technician 020054

Director of Executive MBA Student Services 020055

Library Tech Assistant 020056

Advisor to International Students/Scholars 020057

Department Secretary 020058

Administrative Assistant 020059

Assistant Crew Coach (part time) 020060

Director of Development 020061

Administrative Coordinator of Student Records 020063

Director of annual Giving Programs 020064

Senior Site Operator 020065

Director of Parent Programs 020066

Director, International Alumni & Development Programs 020067

Library Technical Assistant 020068

Working Supervisor (Bargaining Unit Employee) 020069

Student Records Administrator 020070

Working Supervisor (Bargaining Unit Employee) 020072

Lab Technician 020073

CFU Accountant 020075

Secretarial Assistant 020078

Administrative Assistant 020079

Word Processing Operator 020080

Department Secretary 020082

Research Assistant (part time) 020083

Graduate and Joint Degree Program Assistant (part time) 020084

Accounts Payable Coordinator 020085

Planned Giving Officer 020086

Medical Campus

This is a partial list of positions at the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Grant Assistant III 020008

Audiovisual Technician 020347

Secretary III 020353

Supervisor, Clinical Office 020359

Senior Research Technician 020361

Insurance Billing and Collection Assistant II 020402

Law speakers

— from Page 1

"Erin Brockovich" starring Julia Roberts (and produced by University alumnus Michael Shamberg), Brockovich is renowned for her investigative work resulting in a more than \$300 million settlement for Hinkley, Calif. residents exposed to groundwater contamination. Among her numerous awards, she is the recipient of the 2000 Champion of Justice Award from the Civil Justice Foundation of the American Trial Lawyers Association. Brockovich will be speaking to the general public Oct. 4 as part of the St. Louis Speakers Series.

• 11 a.m. Oct. 10 — Judge **Thelton Henderson**, U.S. District Court for the Northern

Notables

Introducing new faculty members

The following are among the new faculty members on the Hilltop Campus. Others will be introduced periodically in this space.

Kurt T. Dirks, Ph.D., assistant professor of organizational behavior in the Olin School of Business, comes to the University from Simon Fraser University in Burnaby, British Columbia, where he was an assistant professor. His research interests include trust and rewards in problem-solving groups, relationships between organizations, trust in leadership, and multiple paths of high-performing teams. Dirks earned a bachelor of business administration in finance in 1990 and a master of science degree in management in 1993 from the University of Iowa, and a doctorate in organizational behavior in 1997 from the University of Minnesota.

Vladimir Mares, Ph.D., assistant professor of economics in the Olin School of Business, arrives from Rutgers University, where he taught microeconomics, industrial organization, law and economics, and portfolio theory. His research interests include industrial organization, game theory, auction and bargaining theory, antitrust economics, finance, and economies in transition. Mares received a bachelor's degree in 1995 from the University of Bucharest in Romania and master's and doctoral degrees in economics in 1997 and 2001 from Rutgers.

Thomas W. Miller Jr., Ph.D., visiting associate professor of finance in the Olin School of Business, is from the Department of Finance at the University of Missouri-Columbia, where he has served as associate professor of finance since 1998. Among his current research topics are the effect of derivative markets on underlying stocks, mean reversion in gross profit margins from processing commodities, and the risk-shifting capability of the electricity futures market. Miller's research has been published in the *Journal of Banking and Finance*, *Journal of Futures Markets* and the *Journal of Financial and Quantitative Analysis*, among others. He is currently working on a textbook, "Derivatives and Risk Management," to be published by the Oxford University Press, and he is the recipient of numerous teaching awards. Miller earned bachelor and master of science degrees in economics from Montana State University in Bozeman in 1977 and 1979, and a doctorate in finance in 1992 from the University of Washington, Seattle.

Acoustic City fall 2001 concert series

The University's Acoustic City fall 2001 concert series will bring nationally touring acoustic artists and accomplished singer-songwriters to the St. Louis area.

All shows are open to the public and are free for University students, faculty and staff.

Sept. 14: Eddie From Ohio will perform at 8 p.m. at The Gargoyle in Mallinckrodt Student Center. Sing Out magazine called this group "contemporary folk on steroids." Tickets are \$12 in advance, \$14 at the door.

Oct. 5: Ellis Paul and Susan Werner special CD release party at 8 p.m. in Steinberg Auditorium. Tickets are \$15.

Oct. 31: Melissa Ferrick, Boston folk rocker, will perform at 8 p.m. at The Gargoyle in Mallinckrodt Student Center. Tickets are \$12 in advance, \$15 at the door.

Nov. 8: Iris Dement, heartfelt vocalist and honest songwriter, will perform at 8 p.m. at the Sheldon Concert Hall in St. Louis. Tickets are \$18 in advance, \$22 at the door.

Dec. 2: Peter Mulvey and Karen Savoca will perform at 8 p.m. at Ike's Place in Wohl Student Center. Tickets are \$10 in advance, \$14 at the door.

Tickets can be purchased in advance by calling MetroTix at 534-1111. For more information on the Acoustic City series, e-mail Jill Stratton, associate director of residential life, at jstratto@restech.wustl.edu.

South 40 Fitness Center offers fall classes

Do you want to get fit, relieve stress or increase strength this semester? The South 40 Fitness Center has just what you're looking for. The center has announced its faculty and staff exercise class schedule for this semester; a wide range of classes will be offered.

Special classes at the center include Pilates mat training and massage therapy. Pilates, a unique method of stretching and strengthening exercises, will be held in two sessions from 6-7 p.m. on Wednesdays. Session I is from Sept 12-Oct 17; Session II is from Oct 24-Dec 5. Both sessions are \$72 for students and \$90 for staff, faculty and others. An introductory session, a prerequisite for Session II, will be Sept. 23 from 1-3 p.m. Cost is \$24 for students and \$30 for others. No refunds are given after the classes start, and participants must register at least a week in advance of the first class.

Massage therapy will be held

on Fridays from noon-4 p.m. Sept. 14-Nov. 30. A licensed massage therapist will be giving massages. The cost is \$15 for 15 minutes or \$25 for 30 minutes. To sign up, visit the center during hours of operation, (Monday-Thursday 7 a.m.-midnight, Friday 7 a.m.-9 p.m., Saturday 10 a.m.-9 p.m., Sunday 10 a.m.-midnight). Payment (cash or check) must be made at time of scheduling. Participants can sign up for an individual session or a whole block of sessions.

Drop-in classes run Sept. 10-Dec. 1. Costs range from \$5 for a one-class pass to \$60 for an unlimited class pass. Classes include step aerobics, yoga, kickboxing, the lunchtime lift, cardio funk and hip-hop, among others. Times and locations vary.

To register for a class or to obtain a full schedule of classes, call the South 40 Fitness Center at 935-5023 or e-mail fitness@restech.wustl.edu.

University's food ranked 2nd in nation

Washington University is not only a great place to learn and work, it's a great place to have a meal, according to The Princeton Review. Its Best 331 Colleges 2002 named the University as the nation's second-best campus for food.

The top spot was taken by Wheaton College of Illinois, another university contracted with Bon Appetit, Washington University's food service provider.

Last year, the University ranked fourth in the nation for food service satisfaction. Greg Teator, general manager of Bon Appetit at the University, attributed the rise in rank to the addition of national franchises like Taco Bell, the addition of

wraps at Ur's Café and the vegetarian sushi in the food court in Mallinckrodt Student Center.

Teator said that providing diverse food choices has been a priority of dining services. Often that diversity includes international flavors, like the wraps at Ur's, sushi and the availability of Chinese fare on campus. Teator said that dining services in Small Group Housing will feature a wide range of food choices, from kosher sandwiches to Mexican flavors to Asian.

"We just try to be responsive to student needs," Teator said. "When they speak, we listen. Every year we add a few things to the menu to correspond to student, faculty and staff needs."



Exploring opportunities Freshman Joy Lee (right) talks with Bruce Fleming of Big Brothers, Big Sisters of Eastern Missouri about getting involved in the organization. Lee was participating in Saturday's Community Service Fair in the South 40 Swamp, at which students had the opportunity to speak with representatives from numerous St. Louis nonprofit agencies and campus organizations that focus on community service. The fair also featured food, games and entertainment.

Employee Assistance Program orientation for faculty, staff

The University's Office of Human Resources will conduct eight Employee Assistance Program (EAP) orientation sessions this month. The sessions will provide employees with an opportunity to learn more about the EAP and receive answers to questions they may have about this new benefit.

Listed below are the dates/times of the EAP orientation sessions:

Hilltop Campus

• Date: Sept. 10

Time: 12-12:45 p.m.

Location: Lopata Hall Room 101

• Date: Sept. 12

Time: 12-12:45 p.m.

Location: Lopata Hall Room 101

West Campus

• Date: Sept. 17

Time: 12-12:45 p.m.

Location: Room 2128, second floor

• Date: Sept. 18

Time: 12-12:45 p.m.

Location: Conference Room A/B lower level, next to the Library

School of Medicine

• Date: Sept. 12

Time: 12-12:45 p.m.

Location: Eric P. Newman Education Center Seminar Room A

• Date: Sept. 13

Time: 12-12:45 p.m.

Location: Eric P. Newman Education Center Room 308/10

• Date: Sept. 19

Time: 12-12:45 p.m.

Location: Eric P. Newman Education Center Seminar Room A

• Date: Sept. 20

Time: 12-12:45 p.m.

Location: Eric P. Newman Education Center Seminar Room A

If you have any questions regarding the EAP orientation sessions, call April Hardnett at 935-8107 (Hilltop Campus) or Apryle Cotton 362-7198.

Obituary

Meir J. Rosenblatt, professor, 52

By ROBERT BATTERSON

Meir J. Rosenblatt, Ph.D., the Myron Northrop Professor of Operations and Manufacturing Management at the Olin School of Business, died after a long illness Thursday, Aug. 30, 2001, at Barnes-Jewish Hospital in St. Louis. He was 52.

Rosenblatt had served on the business school faculty since 1987. He also was a professor on the faculty of industrial engineering and management at the Technion Israel Institute of Technology in Haifa, Israel.

He earned a bachelor of science degree in industrial engineering and management from Ben Gurion University in Israel, and both a master of science and doctorate in industrial engineering from Stanford



Rosenblatt

University.

Rosenblatt won the teacher of the year award at the Olin School in 1989-90 and 1990-91. He previously taught at Cornell University, Stanford, Ben Gurion, and Chulalongkorn University in Bangkok, Thailand.

"Meir was one of the intellectual leaders in the building of the Olin faculty, and he will be sorely missed," said Stuart I. Greenbaum, Ph.D., dean of the Olin School. "He had an uncompromising eye for academic quality."

During his distinguished academic career, Rosenblatt published more than 60 papers in top-refereed journals in production management and control, project management, quality, and facility layout and design. He served on the editorial boards of *Operations Research*, *Management Science*, *Production and Operations Management*, *IIE Transactions* and the *Journal of Operations Management*.

Rosenblatt is survived by his wife, Zehava Rosenblatt; a son, Aviv Rosenblatt; and a daughter, Tamar Rosenblatt. Funeral services were held in Israel.

Washington People

From preschoolers to faculty, everyone at the University has benefited from George Burris' 31 years of experience.

Burris, director of off-campus housing and vice president of Quadrangle Management, has managed numerous services around the University.

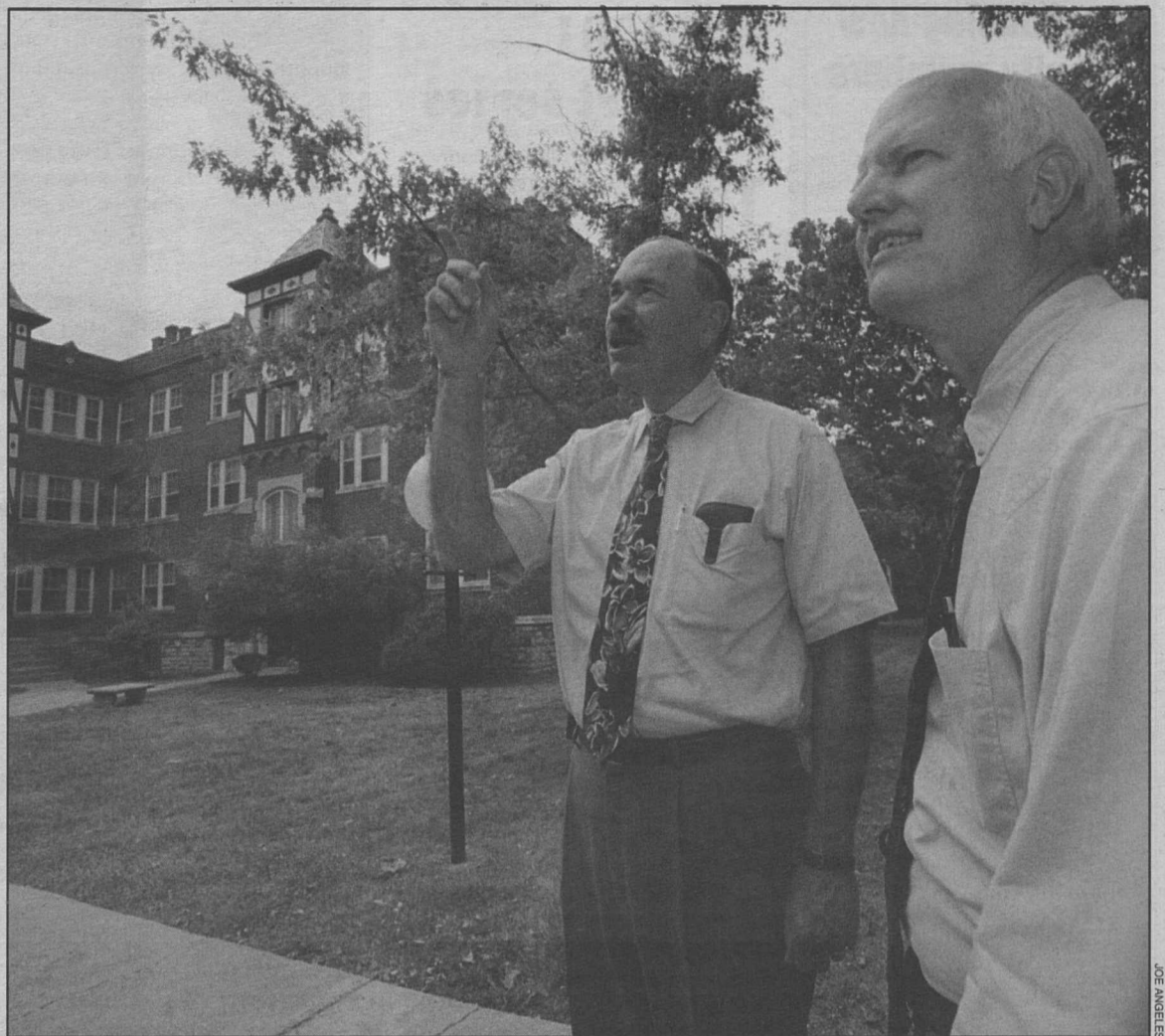
In 1970, Burris took six years of experience working for a restaurant company plus his knowledge from working for Southern Illinois University at Edwardsville's food program and came to Washington University as director of food services.

Burris' success with campus food services led to the addition of director of on-campus housing to his responsibilities in 1973.

Two years later, Burris added director of conference services to his title, and in 1976, Burris' duties extended beyond campus, as the off-campus apartment referral service came under his control.

By 1989, the faculty was able to enjoy Whittemore House, the University's faculty club, under Burris' direction.

Burris completed his move off campus in 1997, when he helped establish the University's off-campus housing service and began handling the University's commercial real estate through



George Burris (left), director of off-campus housing and vice president of Quadrangle Management, reviews off-campus University properties with David Nolan, associate director of off-campus housing.

Decades of leading on and off campus

George Burris, director of off-campus housing, loves the diversity of his job

BY JESSICA N. ROBERTS

Quadrangle Management. He also began managing the University's nursery school. At this point, Burris ended his food and on-campus housing responsibilities.

Today, Burris continues all of his off-campus and property management duties while also managing the University's West Campus facilities and the private residences owned by the University on Forsyth Boulevard. In the last three years, Burris has purchased 124 apartment buildings containing more than 1,000 units in the area as part of the off-campus housing program.

Burris' range of experiences has made it easy for him to stay at the University for more than 30 years.

"I love the diversity of the job," Burris said. "Not only have I had a lot of difficult assignments that have been exciting, fun and educational, but my days are just so different. I could be talking with students, dealing with commercial property issues or working with the faculty and staff. It just depends on the day."

He has expertly handled his wide variety of responsibilities at the University.

"George is a man of many talents," said Richard A. Roloff, executive vice chancellor. "In his quiet, efficient manner, he accomplishes a great deal. George is willing to take on every new challenge presented to him, and considering the enormous variety of his responsibilities, it is impressive to see what he gets done."

Both food and housing services on the University's campus have changed over the past three decades.

"University housing services consisted of dorms with long halls with double rooms and large group bathrooms," Burris said. "Now, students are coming from entirely different experiences, and we are developing housing to meet students' needs."

University food services have also undergone similar changes.

"When I began at the University, there were limited food options available to the students,"

Burris said. "One year after I started at the University, food service expanded to campus, and by the mid '70s, a variety of food began to be offered to students."

Burris created the idea for the Umrathskellar, "the Rat," a popular student hangout and eatery. Its success led the Rat to be featured on the cover of

1979, his first NACAS regional meeting in 1983, and has been to every meeting ever since. He served as host chairman for NACAS' 25th annual meeting in St. Louis.

Burris is looking forward to his upcoming role in NACAS.

"I'm excited about the opportunity to serve," he said.

"George is a man of many talents. In his quiet, efficient manner, he accomplishes a great deal. George is willing to take on every new challenge presented to him, and considering the enormous variety of his responsibilities, it is impressive to see what he gets done."

RICHARD A. ROLOFF

Missouri Restaurant Magazine.

In 1990, Burris helped develop proposals to build the Seeley G. Mudd and Park House residence halls, the first additions to the South 40 since 1962.

National leader

While Burris is considered a leader throughout the University, he also is considered a national leader in college services administration.

The National Association of College Auxiliary Services (NACAS) has elected Burris president for the 2001-02 term. He will take office in November.

Burris has been an active member of NACAS for more than 20 years, serving as a Midwest region representative to the national board, a member of numerous national committees and most recently, the organization's vice president.

"Auxiliary services is a dynamic, growing and changing field, and that makes it a challenging and rewarding field to be working in," Burris said. "To me, the value of NACAS is learning through continuing education, networking and through the friendships that you develop."

Burris attended his first national NACAS meeting in

"I've been involved in the association since 1979, and I see it as a very beneficial association to me and it has been to many other people that I know. I look forward to being able to continue to give back."

Outside the University

Burris' leadership extends far beyond the University and NACAS. He has served as chairman of the board, elder and chair of many committees for his family's church. Burris also served as the moderator for an area-wide church.

In addition, Burris has served for the past four years through the National Benevolent Association on a joint venture to build housing for the mobility-impaired. The National Benevolent Association helps provide services and housing for the elderly and mentally or physically impaired. Burris' wife, Pat, works at the National Benevolent Association as the assistant to the president.

Burris' time outside of work and the church is filled with fun with his grandsons, 3-year-old George Raymond and 3-month-old Jeffery Dalton. Burris' daughter, Pam Peters, teaches special education in the Hannibal, Mo., school district.

Pam became interested special education at an early age, when she volunteered at a camp for children with Down syndrome. Her older brother, George Phillip — Phil to family members — was a camper at the time. Phil currently lives with another person with Down syndrome and a caretaker in an apartment coordinated through the National Benevolent Association's Gateways program.

Somehow, Burris also finds time to be a sports buff, rooting for the Rams and the Cardinals. He swims every morning and enjoys tennis and golf.

Burris finds his work in the community and at the University very rewarding, and considers the people that make up the University community its biggest asset.

"To me, one of the greatest things about the University is the people," Burris said. "There have been thousands of people that I have met and worked with at the University over the years, and everyone's been wonderful. I think the diversity in the student body and the staff at the University gives you a great opportunity for cultural experiences and learning."



George and his wife, Pat, enjoy their 37th anniversary in June.

George Burris

Born: Dallas

University position: Director of off-campus housing and vice president of Quadrangle Management

Family: Wife, Pat; son, George Phillip; daughter, Pam Peters

Awards: 30 years of service to the University, numerous national and regional awards from the National Association of College Auxiliary Services