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# Record

April 27, 2001

Volume 25 No. 28



Washington University in St. Louis

## Arvidson, Waterston receive faculty achievement awards

By TONY FITZPATRICK AND  
BRENDAN WATSON

**F**or their outstanding academic accomplishments, Raymond E. Arvidson, Ph.D., and Robert H. Waterston, M.D., Ph.D., have been named recipients of faculty achievement awards for 2001.

Arvidson, the James S. McDonnell Distinguished University Professor and chair of the Department of Earth and Planetary Sciences in Arts & Sciences, has been awarded the Arthur Holly Compton Faculty Achievement Award. Waterston, the James S. McDonnell Professor and head of the Department of Genetics, director of the Genome Sequencing Center and professor of anatomy and neurobiology at

the School of Medicine, is the Carl and Gerty Cori Faculty Achievement Award recipient.

Chancellor Mark S. Wrighton announced the selections Saturday at the Chancellor's Gala in Holmes Lounge.

"These faculty achievement awards are a wonderful opportunity to annually recognize two outstanding members among the University's numerous scholars and professors," Wrighton said. "This year's recipients are truly exemplary. Their research and scholarship, recognized prominence in their fields, and dedication and service to the University community constitute the basis for the important recognition they have received."

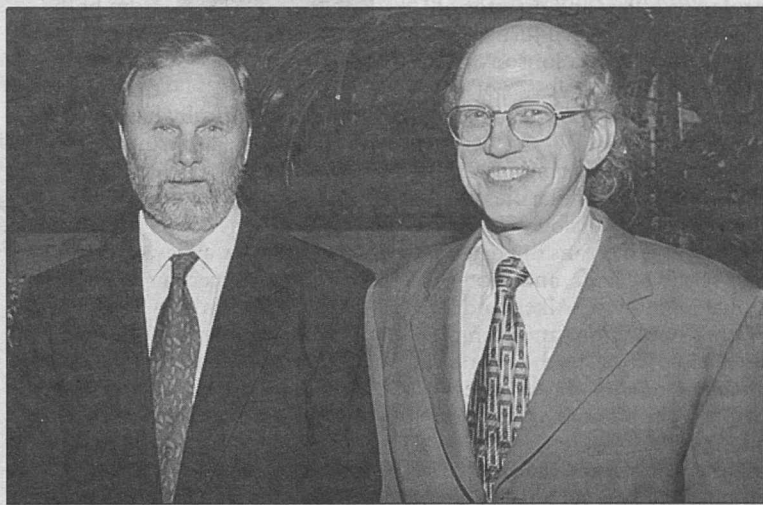
Arvidson and Waterston will receive \$5,000 honorariums and

framed citations at a formal ceremony at the medical campus Sept. 19.

Arvidson and his research group manage NASA's Planetary Data System Geosciences Node, a facility available to planetary scientists worldwide, containing images and planetary data from missions to Mars, the moon and Venus. A 30-year veteran of NASA missions and programs, he is an interdisciplinary scientist for NASA's Mars Surveyor Program Mission as well as deputy principal investigator with the Athena science team for the 2003 and 2005 rover missions.

Arvidson is a widely acclaimed leader in the field of space sciences and an innovative, devoted teacher of young people.

See **Awards**, Page 6



Raymond E. Arvidson (left), Ph.D., of earth and planetary sciences in Arts & Sciences and Robert H. Waterston, M.D., Ph.D., of the School of Medicine are recipients of faculty achievement awards for 2001, announced Saturday at the Chancellor's Gala in Holmes Lounge.

## Admissions University's front door

By JESSICA N. ROBERTS

**N**obody watches their mailbox as closely as a high school senior during April.

Double that excitement and you'll come close to the University's Office of Undergraduate Admissions' enthusiasm for the entire college-selection process.

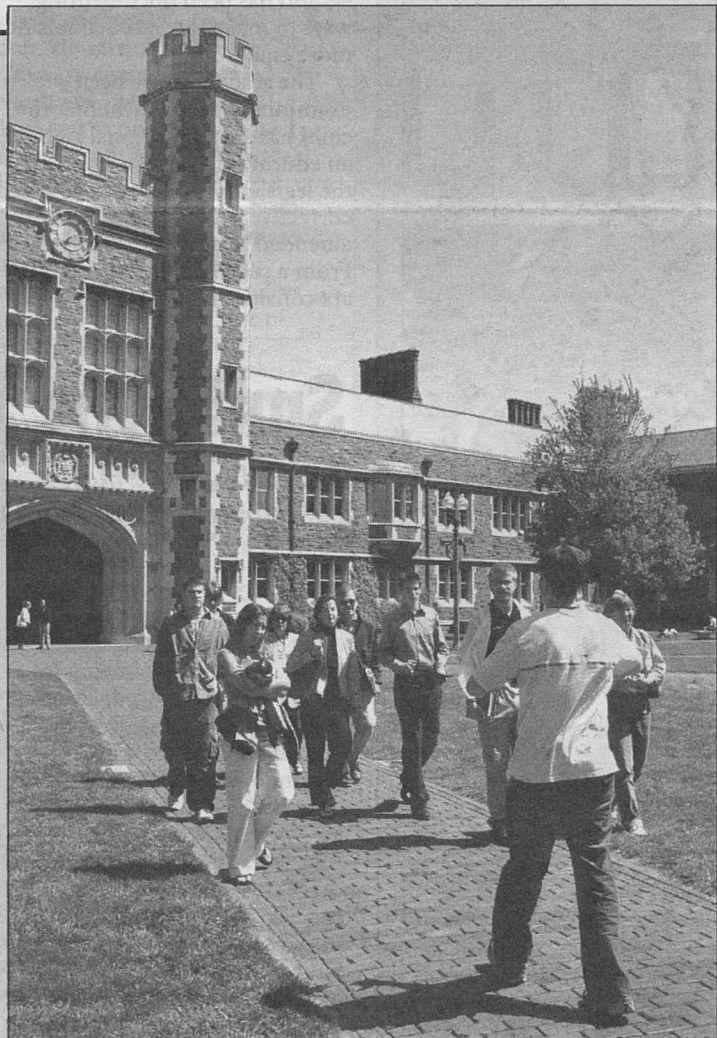
Working on a cyclical schedule, the admissions office spends each part of the year focused on attracting superior, well-rounded students to the University.

In the fall, a group of admissions officers spread across the country, visiting high schools and college fairs while meeting with alumni, interviewing prospective students and working with college counselors.

The winter is spent reading an ever-increasing number of applications. This year, the office received a University-record of nearly 21,000 applications for undergraduate admission.

Spring is the busy but rewarding season for the office. April Welcome, a monthlong series of events giving high school seniors who have been admitted to the University a closer look at what the campus and community offers, brings admissions officers in close contact with students

See **Admissions**, Page 6



**Final decisions** Michael Rosenberg, member of the Student Admissions Committee, gives a campus tour to a group of prospective students as part of April Welcome, a monthlong opportunity for admitted students to experience the University community and the St. Louis area. Visitors to campus participated in a packed schedule of events, including athletic and cultural events, special workshops, presentations and class visits. One of the main events during April Welcome was Multicultural Celebration April 20-22, which attracted more than 400 prospective students.

## Seismologists map active region's mantle flow pattern

By TONY FITZPATRICK

**U**niversity seismologists and colleagues at Brown University and Scripps Institute of Oceanography have mapped the flow pattern of the Earth's mantle in one of the most seismically active regions in the world.

Using a unique array of sea-floor seismometers deployed in 1994, Gideon Smith, Ph.D., senior research scientist of earth and planetary sciences in Arts &

Sciences, and Douglas Wiens, Ph.D., professor of earth and planetary sciences in Arts & Sciences, have mapped out how the mantle flow pattern varies near the Tonga subduction zone in the south Pacific Ocean, where a plate on Earth's surface descends into the mantle.

The results of this study help scientists understand the path followed by material that is erupted from volcanoes. The material erupting at volcanoes

near the Tonga and Fiji islands has flowed many hundreds of miles, originating deep in the earth near the Samoan islands to the north.

The research, supported by the National Science Foundation, is published in today's issue of *Science*.

Smith examined seismic anisotropy, a phenomenon where the velocity of a seismic wave depends on its vibration

See **Mantle**, Page 6

## Sophomore Smilowitz works for passage of Younger Americans Act

By NEIL SCHOENHERR

**B**en Smilowitz, sophomore political science major in Arts & Sciences, has been instrumental in helping draft and lobby for the Younger Americans Act (YAA), a bill currently in committee before the U.S. Senate and House of Representatives.

The bill will create a national youth policy based on the fact that young people are critical resources for community building.

If passed, YAA would allocate \$5 billion over four years to community-based organizations to engage youth as leaders and decision-makers at the local and federal level. Through the act, community boards would be established across the country—one-third of the boards would be youth—to determine where YAA money goes. Also, an Office of National Youth Policy would be established at the White House.

Smilowitz, who has been interested in community service and public policy since an early age, hopes his degree from the University will lead him to law school and eventually to Congress. But for now, he's content to be involved with the board of trustees of the National 4-H Council, the St. Louis Hillel at Washington University and the Student Union Senate, and College

Democrats during election season.

He's also worked in Washington, D.C., met several influential politicians, started his own national organization to fight for students' rights and representation, he's writing a book, and he's working to get groundbreaking bills passed by the highest lawmaking bodies in our country.

All in a day's work for the Hartford, Conn., native.

"As soon as students realize that their voices will be heard and listened to and that politicians actually do care about their issues,

we'll have better voter turnout and we'll get bills passed that matter to us," Smilowitz said.

He's taking his own words to heart. Last spring, Smilowitz had a meeting with the 4-H National Board in Washington, D.C. He got involved with the organization because of his work involving youths and his desire to make sure students have a voice on nonprofit boards and in government. A leader with the National Assembly of Health and Human Services spoke to the 4-H group about YAA.

At the time, the bill was merely a draft, but it piqued Smilowitz's interest.

"They were trying to sign on supporters within different national organizations, and I immediately offered to help," he said.

That summer, Smilowitz joined the National Assembly for Health

See **Smilowitz**, Page 2

**"As soon as students realize that their voices will be heard and listened to and that politicians actually do care about their issues, we'll have better voter turnout and we'll get bills passed that matter to us."**

BEN SMILOWITZ





# New course melds social work, law disciplines

By ANN NICHOLSON

A new interdisciplinary seminar is pooling the talents of School of Law and George Warren Brown School of Social Work students.

The seminar addresses individual community members' combined legal and social service needs while seeking to improve both systems to benefit everyone.

The University's Social Work and Law Students Association requested that the two schools offer a course on the dual practice of law and social work, which is being offered for the first time this semester. Jane Aiken, J.D., professor of law and director of the law school's Civil Justice Clinic, and Melissa Jonson-Reid, Ph.D., assistant professor of social work, are team-teaching the course.

"The seminar examines the differences and similarities in both fields' professional jargon, ethics, values, means of engaging and serving clients, and professional regulation," Aiken said. "Using simulations and community-based projects, the course enables students to negotiate through the strengths, weaknesses and conflicts inherent in combining the two careers. It also emphasizes how such issues affect practice with diverse and op-

pressed populations."

While the class is aimed at students in the dual juris doctor and master of social work degree program, it also has attracted strictly J.D. or MSW students who are interested in the increasing intersection between the two practices.

Founded in 1972, the dual J.D.-MSW program is the oldest of 23 nationwide. While the program has long drawn upon course work from both schools, this is the first time a



Waller

seminar specifically has focused on the interrelationships between the two fields.

Third-year law student Alicia Waller said the course should be mandatory for all law students.

"There is a certain fiction in legal education that you don't bring any biases to the table, that you only have the law in front of you, and that you can apply the law equally to everyone as long as you have correctly interpreted it," Waller said.

"But when you practice in

the real world, you are going to have to deal with people who are not just like you. You cannot remain neutral. You have to be able to assess yourself and your clients in ways you do not usually learn in law school. This class has taught me some of the skills that social workers use and how to navigate through a different mind-set."

Based on her experiences, dual degree student Brigid Coleman will publish her views on the combined practice of law and social work in an upcoming edition of the law school's Journal of Law and Policy. She wrote that while social work skills such as empathetic listening, crisis intervention, evaluation and referral are critical to the mix, "social workers' clients must often overcome a number of barriers, including legal ones. For that reason, it is critical that social workers have some understanding of the law in order to understand and explain their clients' legal rights."

Jonson-Reid noted that the seminar draws on the models of clinical work at the law school and practicum experience at the social work school while "challenging students to implement both professions' dual roles of research and advocacy in addressing community issues.

"... when you practice in the real world, you are going to have to deal with people who are not just like you.

You cannot remain neutral. You have to be able to assess yourself and your clients in ways you do not usually learn in law school. This class has taught me some of the skills that social workers use and how to navigate through a different mind-set."

ALICIA WALLER

"The seminar allows students to directly apply what they have learned through teams of students providing free, multidisciplinary expertise to community groups, including the Forest Park Southeast Neighborhood Organization, Special School District, Older Women's League, Legal Services of Eastern Missouri's Children's Alliance and Parental Relocation Statute Advocacy Coalition," she added.

The students have been charged both with assisting the immediate needs of individual clients and with advocating for larger policy or legislative changes to ameliorate systemic problems. For example, one team seeking to assist a 13-year-old boy — who has been unable to attend school for three years due to expulsion for a non-school related incident — also has been documenting ways to make the Safe Schools Act more equitable.

The students have been examining not only whether the child has a constitutional right to an education, but also whether the legislation is being interpreted correctly, and if it should be amended to address inequities. From a social policy aspect, they are considering the overall effect

on communities of "zero tolerance," including what it means in the short term to have increasing numbers of children out of school, as well as the long-term effects on society of a growing population of uneducated children.

Another group wrote a bill seeking amendments to the state Parental Relocation Statute that

would better ensure that application of the statute is in the best interest of the families involved. Sponsored by state Rep. Glenda Kelly (D-27th District), the bill has been held up in committee due to a recent state Supreme Court ruling reinterpreting the act involving the ability of

custodial adults to relocate following divorce proceedings. At the same time, the students are seeking ways to assist a client who was unfairly being penalized under the statute.

Jonson-Reid noted that a key message of the seminar is not to imply that students need to be all things to all clients, but for students to gain a better sense of "where my professional ability and skills stop, and where my skills combined with the assistance of other experts would best serve my client."



Coleman



## Shows, rides, games & food thrill thousands at Thurtene

The annual Thurtene Carnival, Saturday and Sunday in the North Brookings parking lot, was a huge success. More than 100,000 people attended the two-day event, helping the Thurtene Honorary raise money for this year's charity, Make A Difference Center. This year's carnival featured nine themed facades designed and constructed by students, which housed student-performed plays. Above, senior Kristina Chesshire (in white hat) wows her fellow "townspeople" in the Sigma Phi Epsilon /Alpha Phi production of "WU City." Thurtene also featured 19 carnival rides — including the popular Ferris wheel (right) — more than 15 game booths and an array of food. Thurtene is the oldest and largest student-run carnival in the nation, tracing its roots to 1907.



## Smilowitz

Political science major contributes to YAA efforts — from Page 1

and Human Service Organizations as an intern and spent much of his time lobbying to get the bill introduced. He also assisted in the process of drafting the finalized act.

Smilowitz's resume is impressive. He has interned for Rock the Vote in Los Angeles, authored a Connecticut State Legislature bill concerning student membership on the State Board of Education, been interviewed by several major media outlets and won numerous awards.

But Smilowitz doesn't do all this so it will look good on a piece of paper. He is genuinely concerned about

the welfare of his fellow students and young people across the country.

Smilowitz said he is committed to trying to find long-term solutions

"You can't neglect the problems or the root causes," he said. "More service groups need to push voting and political action because they are also important forms of community service. Long-term change can't happen until we address the problems."

Smilowitz is also starting a new national organization that will involve high school and college students. He hopes the group, which will eventually have a chapter in each state, will help influence policy changes within the local and national governments.

"Students need to realize that policy change is an important part of community service," he said.

## Record

Washington University community news

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Washington University in St. Louis



## Medical School Update

# Immune system helps prevent tumors after all

By GILA RECKESS

University-led researchers have obtained the first conclusive evidence that the immune system helps prevent tumor formation. They discovered that white blood cells called lymphocytes and a protein produced by immune cells work together to find and eliminate tumor cells.

Their paper appears in the April 26 issue of the journal *Nature*.

"This sheds light on an age-old controversy and suggests new possibilities for cancer therapy,"

said Robert D. Schreiber, Ph.D., the Alumni Professor of Pathology and Immunology and professor of molecular microbiology at the School of Medicine.



**Schreiber:** Cancer study's lead author

Schreiber led the study. Vijay Shankaran, an M.D./Ph.D. student in Schreiber's lab, was first author of the paper. The St. Louis researchers collaborated with Lloyd J. Old, M.D., director and chief executive officer of the Ludwig Institute for Cancer Research at Memorial Sloan-Kettering Cancer Center in New York.

The researchers used a strain of mice that completely lacked functional lymphocytes. This was accomplished by inactivating a lymphocyte-specific gene called *RAG2*. When these mice were injected with the chemical carcinogen MCA, 58 percent of them developed tumors. In previous studies, the group obtained a similar result when they injected MCA into mice that lacked either the receptor for IFN $\gamma$  or one of the proteins required for the receptor to function, Stat1. In contrast, only 19 percent of the normal mice developed tumors after MCA exposure.

When mice generated with two disrupted genes — the gene for *RAG2* and the gene for Stat1 — were injected with MCA, 72

percent of them developed tumors. Statistically, this was not greater than the incidence of tumors in mice that lacked just one gene or the other. Therefore, the researchers concluded that *RAG2* and the IFN $\gamma$  receptor have overlapping roles.

"We think the two are potentially part of the same mechanism but represent different steps in the process," Schreiber said. "IFN $\gamma$  makes tumor cells expose themselves to the immune system. After seeing the abnormal proteins in the tumor, the lymphocytes eliminate the tumor cells."

The team also determined whether the three groups of mice — normal, *RAG2*-deficient, and deficient in both *RAG2* and Stat1 — developed tumors spontaneously, without being exposed to the carcinogen. By 15 months, two of 11 normal mice had noncancerous tumors and the rest were tumor-free. In contrast, all 12 *RAG2*-deficient mice had developed tumors, half of which were cancerous.

Surprisingly, all 11 mice lacking both *RAG2* and Stat1 developed cancerous tumors. Six expressed cancerous breast tumors well before 15 months. This type of cancer rarely occurs in *RAG2*-deficient mice or in young mice lacking the IFN $\gamma$  receptor. The other five developed cancers of the intestinal tract and lung. The researchers concluded that, while the roles of lymphocytes and IFN $\gamma$  overlap, IFN $\gamma$  also might prevent tumor formation via mechanisms not involving the immune system.

There's also bad news, however. When MCA-induced tumors from normal mice were transplanted into healthy, normal mice, they continued growing. But eight of 20 tumors from *RAG2*-deficient mice transplanted into healthy mice were rejected. Apparently, the immune system in these healthy mice was better equipped to recognize — and reject — tumor cells from *RAG2*-deficient mice than tumor cells that had developed in mice with intact lymphocytes.

"As a result of protecting the body, the immune system paradoxically favors the outgrowth of tumors that are less likely to be

recognized and killed by the immune system," Schreiber said.

When a role for the immune system in tumor formation was proposed decades ago, scientists envisioned a process called immunosurveillance, wherein the immune system catches a cell at the beginning of its transformation into a tumor cell. In contrast, Schreiber and his colleagues think their discoveries suggest immunoediting, in which the immune system constantly eliminates certain types of tumor cells and also changes the characteristics of others.

"Immunoediting could explain why the immune system can select for tumors that are more capable of escaping the immune system as they continue to develop," Schreiber

said. "If this process is always occurring, it can have multiple outcomes, one of which is protection. But if you're unlucky, transformed tumor cells might alter themselves so the immune system can pick out only a few. The others continue growing."

The researchers examined one potential way to flag tumors for easier identification by the immune system. They added a protein called TAP1. This molecule appears to be absent from some tumors that escape immune detection.

When highly aggressive tumors such as those that managed to develop in mice with a healthy immune system were transplanted into healthy, normal mice, they grew in an extremely rapid

manner. However, if these tumors first were tagged with TAP1 before being transplanted into healthy mice, they were rejected. In contrast, the tagged tumors were not rejected when transplanted into *RAG2*-deficient mice. Thus, tagging the tumors facilitated their detection and elimination by the immune system.

"We showed that if a tumor is forced to reveal itself to the immune system, it often is rejected," Schreiber said. "We think that tagged tumor could be used to train the immune system to reject others like it. This is very exciting because it indicates that immunotherapy has a significant potential use even for the treatment of tumors that are altered by the immunoediting process."



**Endurance for insurance** First-year medical student Daiying Lu (right) tags classmate Erica Brooks during a 12-hour relay race Saturday at Bushyhead Track. The relay was organized by the University student chapter of the American Medical Association to raise awareness for Missouri's Children's Health Insurance Program. This effort provides health coverage for uninsured children of low-income families.

## Pediatrics department receives special research designation

By ANNE ENRIGHT SHEPHERD

The Department of Pediatrics once again has been named a Child Health Research Center (CHRC) in Developmental Biology, an honor bestowed on only four institutions nationwide in the last two years.

The center, funded by a \$2.1 million grant from the National Institute of Child Health and Human Development, will support basic human development research by young investigators for the next five years. The Department of Pediatrics was first designated a National Institutes of Health center of excellence in 1996.

"Ultimately, this center is designed to create a new generation of pediatric physician-scientists," said Jonathan D. Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics and the center's program director. "This support will nurture their careers until they become independently funded scientists."

The center addresses a critical juncture for investigators embarking on careers in medical research. After young researchers have completed their education and advanced fellowship training,

they must achieve success in research before they can apply for major federal funding. Finding resources to perform preliminary research can be difficult.

"That's the most important stage of support, and it's the hardest for which to find any kind of solid funding," said Gitlin, who is also professor of pathology and

investigating methods for comparing scans of children's brains to those of adults, using a technique called functional magnetic resonance imaging. Such a comparison would provide important information about how brain activity develops as a child matures.

"The support has been

**"Ultimately, this center is designed to create a new generation of pediatric physician-scientists. This support will nurture their careers until they become independently funded scientists."**

JONATHAN D. GITLIN

staff physician at St. Louis Children's Hospital.

Alan L. Schwartz, M.D., Ph.D., the Harriet B. Spoehrer Professor and head of the Department of Pediatrics at the School of Medicine, is the center's principal investigator. Schwartz also serves as pediatrician-in-chief at Children's Hospital.

The center will support four to six researchers, each for two to three years.

Currently, one scholar is

terrific," said Bradley L. Schlagger, M.D., Ph.D., instructor in neurology and pediatrics. "It is giving me the opportunity to form the methodological framework upon which we'll build other projects involving functional neuroimaging in children."

Investigators will also study the mechanisms by which drugs used to treat HIV cause insulin resistance and other serious adverse metabolic effects in people

with diabetes mellitus. Other work seeks to uncover how molecules regulate the enteric nervous system, which has implications for children with Hirschsprung's disease, constipation and irritable bowel syndrome.

In addition to providing laboratory space and funding for equipment, the center supports a state-of-the-art core facility for developing genetically altered mice as models of human disease. Pediatric investigator Ted Simon, Ph.D., directs this core facility as a resource for the CHRC scholars.

These animals are crucial to the basic understanding of pediatric illnesses such as cystic fibrosis, asthma and sickle cell disease. By allowing research that would be too risky to perform on human patients, animal models can advance disease treatment and prevention; however, animal models also represent a significant research expense. The center's support of genetically altered mice gives young scientists research tools that might not otherwise be available.

One former researcher at the center developed mice with a rare overgrowth disorder, which affects the formation and growth of bone and other tissues, and is using

these mice to study molecules that cause the disorder in children. The experiments led to a greater understanding of this and other related congenital disorders.

"The CHRC Scholars Program was a great opportunity," said Scott Saunders, M.D., Ph.D., assistant professor of pediatrics and of molecular biology and pharmacology. "It provided tremendous resources and support at a critical stage early in the development of my career."

After completing his work at the center, Saunders received funding from the National Institutes of Health to continue his research on the disorder.

### Peck to give address

William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, will address the faculty on the "State of the Medical School" May 7. The address will take place from 11 a.m.-2 p.m. in the Eric P. Newman Education Center, and light refreshments will be provided.

The talk is sponsored by the Executive Committee of the Faculty Council.



# University Events

## School of Art prowls Galleria catwalk in annual Fashion Show

By LIAM OTTEN

The Fashion Design Program at the School of Art will present its 72nd Annual Fashion Show at the Saint Louis Galleria May 6.

The fully choreographed, Paris-style extravaganza features some 50 models wearing more than 100 outfits created by the program's seven seniors and 11 juniors.

The show, titled "Reflections," kicks off with a reception at 7:30 p.m. in the Galleria's Garden Court, located near the entrance to Lord & Taylor. The main event gets under way at 8 p.m. and is followed by a dessert reception for the designers and audience.

Tickets are \$45 per person for general seating, \$20 for University students and employees. Tickets with special seating (and recognition in the program) range from \$150-\$3,000, with all monies over \$45 going to support the Fashion Design Program.

"Fashion is musical and magical and it's *always* 20-20, but only when you reflect on it," said Jeigh Singleton, head of fashion design, explaining this year's theme. "It's only a decade or so later that you can really understand all the influences that were happening at a given time, all the things that people wanted to express in their clothes."

"This year, many of the projects we've done were inspired by the decades of the 20th century — evening wear from the 1920s,

embellished jackets from the ostentatious '80s," Singleton continued. "Hopefully, in the course of reflecting about fashion's past, students have been able to discover something about the historic and emotional significance of shape and color and texture, which are really the focus of fashion."

The fashion show is chaired by fashion alumna Susan Block (BFA'76) and organized by a committee of volunteers. Works on display —

which are chosen by professional designers, University faculty and leaders in the retail clothing industry — range from sportswear and ball gowns to coats, dress groups, cocktail dresses, daytime dresses, wool suits and art-to-wear jackets.

Models include professionals as well as students and members of the community.

Highlights of the show include the seniors'

signature collections, in which each student creates a fully realized line of clothing, and, in the grand finale, a single wedding dress, selected by competition. Outstanding student designers are recognized with a variety of scholarships, cash prizes and awards. Last year more than 700 people attended the event, which raised more than \$25,000.

"Reflections" marks the seventh year of collaboration between the University and the Galleria. Singleton believes the large retail site is the perfect venue for displaying couture creations.

"The Galleria has mastered the transformation of the Garden Court," Singleton said.

This year also marks the ninth year that the models' hair will be done by Dominic Bertani of the Dominic Michael Salon, sponsor of the Designer of the Year Award, to be presented to an outstanding student at the end of the evening. The models' makeup will be done by MAC.

Singleton pointed out a new development in the fashion program that he expects will impact the training of all future designers — the intergration of computer technology.

Singleton also pointed out the fashion mentoring program, which pairs seniors with alumni in the fashion industry.

"The biggest transition for young designers is from 'it's about

### Fashion Show

**WHO:** Fashion Design Program at the School of Art

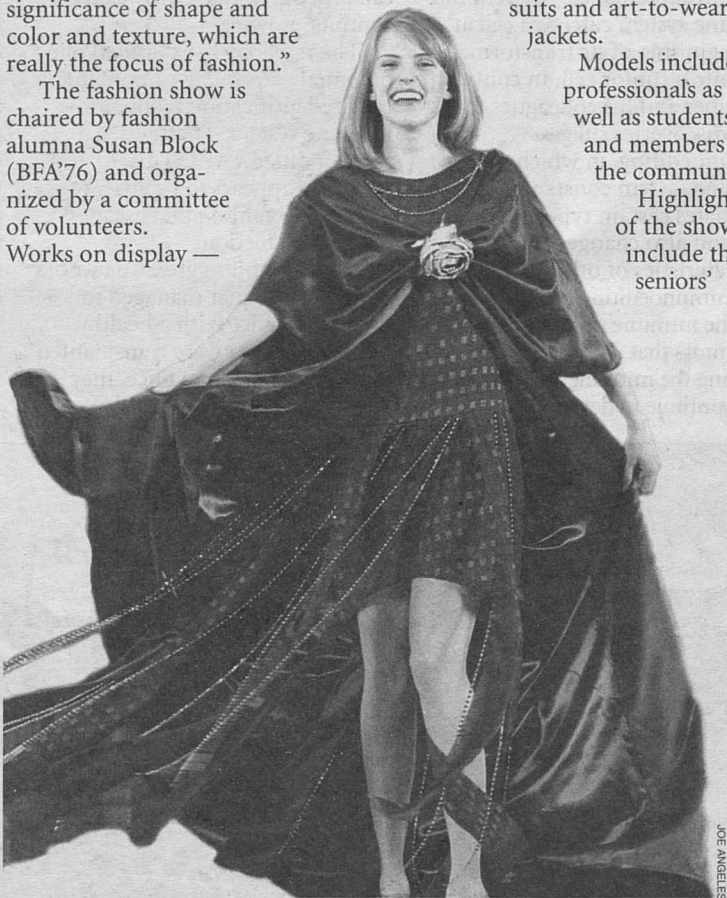
**WHAT:** 72nd Annual Fashion Show

**WHERE:** Garden Court, Saint Louis Galleria

**WHEN:** 7:30 p.m. May 6

**TICKETS:** \$20 for University students and employees, \$45 for others. Available at the Edison Theatre Box Office (935-6543), at the Galleria Concierge Service Center and through MetroTix (534-1111). A limited number will be available at the door.

For more information, call 935-9090.



Students' clothing designs such as this dress will be modeled May 6 at the 72nd Annual Fashion Show at Saint Louis Galleria.

## Arts Exhibition • "Alaska" • A Day of Readings • American Heart Walk

"University Events" lists a portion of the activities taking place at Washington University April 27-May 9. Visit the Web for expanded calendars for the School of Medicine ([medschool.wustl.edu/events/](http://medschool.wustl.edu/events/)) and the Hilltop Campus ([cf6000.wustl.edu/calendar/events/](http://cf6000.wustl.edu/calendar/events/)).

### Exhibitions

**"Muses and the Healing Art."** Through Aug. 31. Glaser Gallery, The Bernard Becker Medical Library, 660 S. Euclid Ave. 362-4235.

**"Master of Fine Arts Exhibition."** May 4 through May 20. (Reception May 4, 5-7 p.m.) School of Art Master of Fine Arts thesis exhibition. In/Form Gallery, 3519 S. Broadway. 324-7468.

### Lectures

#### Friday, April 27

**9:15 a.m. Pediatric Grand Rounds.** "The Genetic Structure of Reciprocal Social Behavior in Children." John N. Constantino, asst. prof. of psychiatry (child) and pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell biology and physiology seminar.** "Organelle Inheritance in Yeast: Regulation of Membrane Deformation, Movement and Fusion." Lois S. Weisman, assoc. prof. of biochemistry, U. of Iowa, Iowa City. Room 426 McDonnell Medical Sciences Bldg. 362-2713.

**3 p.m. Mathematics solvmanifold seminar.** Pat Eberlein, U. of N.C., Chapel Hill. Room 199 Cupples I Hall. 935-6760.

**4 p.m. Anatomy and neurobiology seminar.** "ES Cells — Sifting the Hope From the Hype." David I. Gottlieb, prof. of anatomy and neurobiology and assoc. prof. of biochemistry and molecular biophysics. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

#### Monday, April 30

**Noon. Lung biology conference.** "Neutrophil Arsenal in Host Defense Against Bacteria: Lessons From Targeted Mutagenesis." Azzaq Belaaouaj, asst. prof. of medicine. Room 801 Clinical Sciences Research Bldg. 362-8983.

**Noon. Molecular biology and pharmacology research seminar.** "Finding Genes for Autoimmune Diseases." Anne M.

Bowcock, prof. of genetics and of pediatrics. Room 3907 South Bldg. 362-2725.

**Noon. Neurology and neurological surgery research seminar.** "Pathogenetic Mechanisms of Muscle Cell Death in the Muscular Dystrophies: Nitric Oxide and Cellular Susceptibility to Oxidative Stress." Tom Rando, asst. prof. of neurology and neurological sciences, Stanford U. Schwartz Aud., first floor, Maternity Bldg. 362-7379.

**2 p.m. Molecular microbiology special seminar.** "Measles Virus Entry and Re-targeting." Robert Cattaneo, prof. of biochemistry/molecular biology, Mayo Clinic, Rochester, Minn. Room 775 McDonnell Medical Sciences Bldg. 362-2746.

**4 p.m. Immunology Research Seminar Series.** "Host and Viral Genes Regulating Herpesvirus Latency, Immune Regulation of Latency and Vasculitis." Herbert W. "Skip" Virgin IV, assoc. prof. of pathology and of molecular microbiology. Eric P. Newman Education Center. 362-2763.

#### Tuesday, May 1

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "*Legionella pneumophila*: Bacterial parasite of Phagocytic Cells." Joseph P. Vogel, asst. prof. of molecular microbiology. Cori Aud., 4565 McKinley Ave. 362-8873.

**12:05-12:55 p.m. Program in Physical Therapy seminar.** "Constraint Induced Movement: Are We Forced to Use It?" Alexander W. Dromerick, assoc. prof. of neurology and neurological surgery. Classroom B114, 4444 Forest Park Blvd. 286-1404.

#### Wednesday, May 2

**Noon. Orthopaedic research seminar.** "The Amino Propeptide of Type IIA Procollagen: Another Growth Factor Binding Protein?" Audrey McAlinden, orthopaedic surgery dept. Key Library, Suite 11300, Barnes-Jewish Hosp. Bldg. 454-7800.

**4 p.m. Biochemistry and molecular biophysics seminar.** "Molecular Basis of Pilus Retraction." Michael P. Sheetz, prof., Columbia U., Sherman Fairchild Center, N.Y. Cori Aud., 4565 McKinley Ave. 362-0261.

**5:15 p.m. Mothers and Babies Research Center conference.** "Mechanisms of Hyperglycemia-induced Apoptosis in the Mouse

Blastocyst." Kelle H. Moley, asst. prof. of cell biology and physiology and of obstetrics and gynecology. Room 36, third floor south, St. Louis Children's Hosp. 747-0739.

#### Thursday, May 3

**Noon-1 p.m. Genetics seminar.** "Analysis of HLA Allelic Diversity Implications for Disease Susceptibility and Evolution." Henry Erlich, dir. of Human Genetics, Roche Molecular Systems. Cori Aud., 4565 McKinley Ave. 362-2062.

**4 p.m. Siteman Cancer Center Basic Science Seminar Series.** Stuart H. Orkin, Chairman, pediatric oncology dept., Dana Farber Cancer Inst., Boston. Eric P. Newman Education Center. 747-7222.

**4:30 p.m. Mathematics colloquium.** "Old and New Invariant Metrics in Complex Geometry." C.K. Cheung, Boston College. Room 199 Cupples I Hall (tea 4 p.m., room 200). 935-6760.

#### Friday, May 4

**11 a.m. Mathematics analysis seminar.** "Normal Families, Peak and Anti-peak Functions in Some Infinite Dimensional Spaces." Kang-Tae Kim, Pohang Inst. of Science and Technology. Room 199 Cupples I Hall. 935-6760.

**Noon. Cell biology and physiology seminar.** "Exit From Mitosis in Budding Yeast." Angelika Amon, asst. prof., Center for Cancer Research, HHMI/MIT, Cambridge, Mass. Room 426 McDonnell Medical Sciences Bldg. 362-1808.

**6 and 8 p.m. Travel Lecture Series.** "Alaska." John Holod, Washington University Assoc. Cost: \$5. Graham Chapel. 935-5212.

#### Monday, May 7

**4 p.m. Immunology Research Seminar Series.** The Paul E. Lacy Lecture. "Interplay Between DNA End-joining and Cell Cycle Checkpoint Pathways in Lymphogenesis and Genomic Stability." Frederick W. Alt, the Charles A. Janeway Prof. of Pediatrics and prof. of genetics, Harvard Medical School, Children's Hosp., Boston. Eric P. Newman Education Center. 362-2763.

#### Tuesday, May 8

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Viruses as Templates for Nanomaterials and Viruses From Extreme Thermal Environments." Mark Young, assoc. prof. of plant science and pathology, Montana State U., Bozeman. Cori Aud., 4565 McKinley Ave. 362-2746.

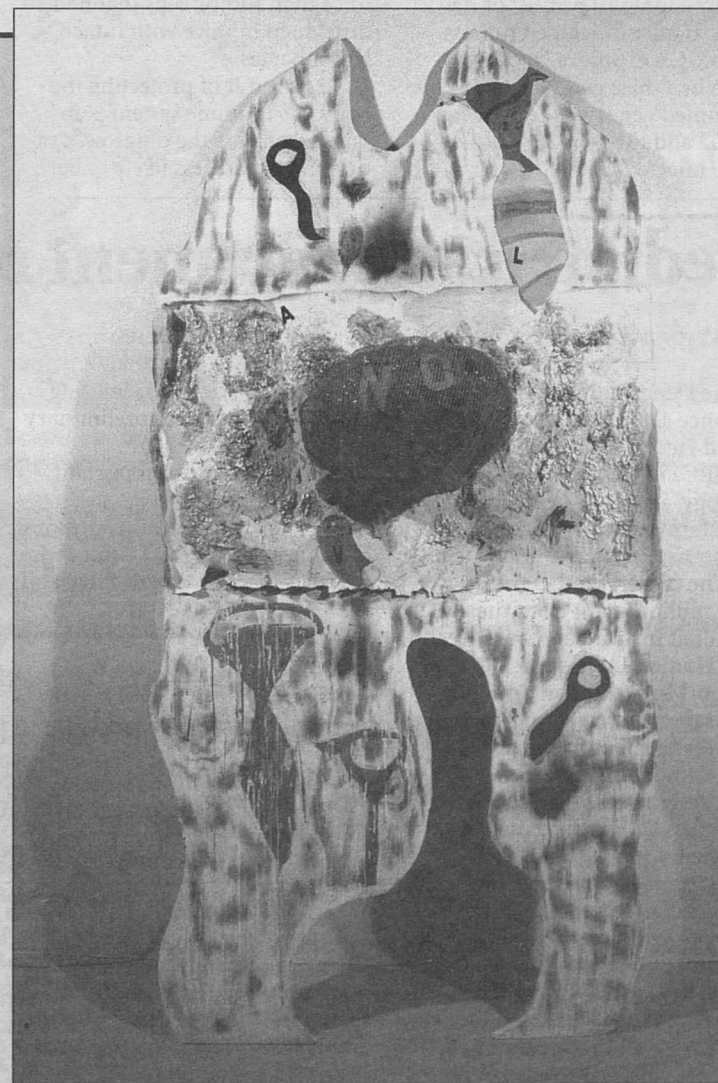
#### Wednesday, May 9

**5:15 p.m. Mothers and Babies Research Center conference.** "Role of the Transcription Factor Fox j1 During Embryonic Development." Brian P. Hackett, asst. prof. of pediatrics, newborn medicine div. Room 36, third floor south, St. Louis Children's Hosp. 747-0739.

### Music

#### Sunday, April 29

**3 p.m. Chancellor's concert.** Music of Khatchaturian, Borodin, Rachmaninoff and



**Student exhibition "Untitled,"** an 8-by-4-foot wood and clay sculpture by Scott MacDonald, will be displayed as part of the School of Art's "Master of Fine Arts Exhibition" at the In/Form Gallery, 3519 S. Broadway. MacDonald is one of 14 second-year graduate students participating in the show, which opens with a reception from 5-7 p.m. May 4 and remains on view through May 20. For more information, call 324-7468, or visit [www.artsci.wustl.edu/Art/MFAprogram](http://www.artsci.wustl.edu/Art/MFAprogram).



## Campus Watch

The following incidents were reported to University Police **April 19-24**. 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](http://rescomp.wustl.edu/~wupd).

### April 20

12:28 p.m. — An Office of Housing and Residential Life employee reported that a 3-foot high adjustable stainless steel chair was stolen from the east end of Ursa's Cafe. The theft occurred between 12 a.m.-2 p.m. April 19. Total loss is valued \$650.

5:47 p.m. — An unknown person entered a 1997 Jeep parked on Lot 3 and took a Sony CD player from the dashboard. Total loss is valued at \$450.

### April 21

4:14 p.m. — While on patrol, a radio broadcast announced that the University City Police Department was looking for a suspicious male in the area of Big Bend Boulevard and Forest Park Parkway. A male matching the description of the suspicious person was observed in front of Millbrook No. 2. A check revealed active warrants and a search of the suspect revealed a concealed weapon. The suspect also had a prior trespass warning and was arrested and booked on the above charges.

### April 23

12:30 a.m. — A student was punched in the face by an

unknown white male for mocking an award that Theta Xi fraternity received. The incident will be referred to the Greek Coordinator.

7:53 a.m. — The senior project manager for McCarthy construction stated that between 5 p.m. April 20 and 3 p.m. April 21 unknown persons obtained entrance to building No. 4 located in the Small Group Housing construction site and spray painted the concrete floor and a box used to hold tools. The persons also took a microwave that was sitting on a table in this area. Total loss is valued at \$100.

9:36 p.m. — A student reported that he parked his 1994 Jeep Cherokee on Lot 31 at 8:30 p.m. When he returned at 9 p.m., an unknown person had taken his car stereo and a laptop computer from his vehicle. Total loss is valued at \$2,730.

*Additionally, the University Police Department responded to four reports of theft, two reports of assault, two reports of vandalism, two reports of automobile accidents, one report of impeding traffic, one false alarm and one drug offense.*

Rutter. WU Symphony Orchestra, Dan Presgrave, dir. Chamber Choir of WU, John Stewart, dir. Graham Chapel. 935-5581.

### Monday, April 30

9 p.m. **Concert of English madrigals.** More Fools Than Wise, madrigal ensemble. Sponsored by music dept. Umrath Hall Lounge. 935-5581.

### Tuesday, May 1

8 p.m. **WU Chorus concert.** "Requiem" by Gabriel Fauré. Eric Anthony, dir. Graham Chapel. 935-5581.

### Friday, May 4

8 p.m. **WU Opera concert.** Includes Act II of Johann Strauss' "Die Fledermaus." Jolly Steward, dir. Umrath Hall Lounge (also May 5, same time). 935-5581.

## Sports

### Tuesday, May 1

3 p.m. **Men's baseball** vs. Webster U. Kelly Field. 935-5220.

### Friday, May 4

3:30 p.m. **Men's and women's track and field.** WU Last Chance Meet. Francis Field. 935-5220.

### Saturday, May 5

1 p.m. **Women's softball** vs. Webster U. Softball Field. 935-5220.

## Worship

### Friday, April 27

11:15 a.m. **Catholic Mass.** Catholic Student center, 6352 Forsyth Blvd. 935-9191.

1:10 p.m. **Muslim Friday prayers.** Includes sermon and prayer service. Lambert lounge, Mallinckrodt Student Center. 935-3543.

### Friday, May 4

11:15 a.m. **Catholic Mass.** Catholic Student center, 6352 Forsyth Blvd. 935-9191.

1:10 p.m. **Muslim Friday prayers.** Includes sermon and prayer service. Lambert lounge, Mallinckrodt Student Center. 935-3543.

## Sports



Junior Quincy Davis (center) sprints to the finish in a 110-meter hurdle heat at the recent Washington University Invitational earlier this month at Bushyhead Track.

### Women win UAA track title; men 4th

The women's track team captured its fifth University Athletic Association championship — its third in the last four years — Saturday and Sunday at the UAA Championships held at the University of Chicago. The men fared well too, taking fourth place. The women took first in 11 of 20 events and grabbed the title by 46 points over its closest competitor, Emory University. The Bears also took two of three year-end awards, nabbing the most outstanding performer award, which went to senior Suzi Ramsey, and the coaching staff of the year, as head coach Rich Schilling and assistants Eileen McAllister, David Cerven and Claudine Rigaud took home that honor.

Ramsey won the 100- and 400-meter hurdles, with her 1:04.59 in the 400 good enough for a provisional qualification into the NCAA championship meet. But Ramsey wasn't the only Bear to step up in the championship. Kammie Holt won the long jump and the triple jump, Natsha Richmond won the shot put, freshman Sarah Springer won the pole vault, Brooke Lane took home the title in the 10,000 meters, Valerie Lasko won the 400 meters and Susan Chou flew to victory in the 1,500 meters. The Bears also won the 400- and 1,600-meter relays.

On the men's side, junior Todd Bjerkaas turned in a dominating performance in the sprints, winning the 100-meter dash by nearly four-tenths of a second and claiming victory in the 200-meter dash as well. Bjerkaas also was a part of the 400-meter relay team that brought home a UAA title. Pat MacDonald finished second in the 5,000-meter run at 15:31.23.

Both the men and women return to action today and Saturday at the Drake University Relays in Des Moines, Iowa.

### Women's tennis gets 2nd at UAA tourney

The women's tennis team turned in another solid performance at the UAA tournament April 20-22 in Rochester, N.Y., taking home second place for the 12th time in 14 years. The Bears swept Brandeis University, 9-0, in the quarterfinal round before advancing to the championship match with a 5-3 win over host

University of Rochester. But Emory got the best of WU in the final, winning 7-2. Laura Greenberg went 2-0 in singles action and teamed with Jenny Stein for a 2-0 mark in doubles play. Steph Cook and Jen Kivitz each had a pair of singles wins, while Kat Copiozo and Rathi Mani went 2-1 at No. 2 doubles. Mani also had two wins in singles.

### Men's tennis just misses 1st UAA title

The men's tennis team came oh-so-close to its first-ever UAA title, but Emory held on for a 4-3 win in the championship match at the UAA tournament April 20-22 in Rochester. Despite not getting the conference crown, WU did earn second place in the UAA for the fourth straight season. WU blanked Case Western Reserve University, 7-0, in the quarterfinals and moved into the final with a 4-2 win over Rochester. David Genovese went a perfect 3-0 in singles play and teamed with Max Schlather to go 2-0 in doubles. Schlather also added two singles wins. Pat Doyle was 3-0 in singles play and Brian Alvo added two singles wins and a doubles victory. Mike Feldman and Derrick Everett went 2-0 at No. 3 doubles.

### Softball wins 2, loses 2 at Augustana

The softball team grabbed a seventh-place finish at the Augustana Invitational April 20-21 in Rock Island, Ill., bringing its season record to 20-18. On the first day, the Bears dropped a pair of hard-fought contests against two of the top teams in the nation. In the morning tilt, the Bears held a 1-0 lead until the sixth inning against Benedictine (Ill.) University, entering the contest at 27-7. BU scored an unearned run in the top of the sixth, sending the game to extra innings. In the eighth, the wheels came off for the Bears, allowing four Benedictine runs. Answering in the bottom half, WU could only muster one run as freshman Rikki Taden came around on classmate Jen Hiller's grounder to third base and subsequent error. That was all the Bears could drive in, though, falling 5-2.

The day's second game pitted WU versus powerful University of Wisconsin-Whitewater (UW-W). In a defensive battle, the Bears held a precarious 1-0 lead after senior first baseman Anne Gregory roped a RBI liner to center field, scoring Kristin Harrer. But the Warhawks tied it up on a pair of doubles in the

bottom half of the fifth. UW-W took the decisive 2-1 lead in the sixth on a single, a sacrifice and an infield hit.

The following day produced better results for WU — two wins, defeating NAIA Marycrest International University (MIU) in the morning, 2-1 in eight innings, and mercy-ruling Concordia University in the second game, 9-0. Against MIU, neither team scored until extra innings, as the Bears came through with two in the top of the eighth. Harrer was placed on second because of the extra-innings rule, and she came home when Meghan Forgys' bunt was fielded and thrown into right field for a two-base error. After advancing to third on Emily Vambaketes' groundout, Forgys came home on a single by Taden.

The Bears continued strong in the day's second game, wiping out Concordia in five innings due to the eight-run rule. WU scored three runs in the second and tacked on six more in the fourth. Freshman pitcher Lori Fehlker picked up the win, striking out nine and allowing just three hits en route to the shutout.

The Bears travel to Illinois Wesleyan University Saturday for a doubleheader.

### Baseball recovers with victory over DePauw

The baseball team stayed a game above the .500, going 1-2 last weekend on the road. Four first-inning runs by Illinois Wesleyan April 19 were too much for the Bears to overcome in an 8-4 loss. Freshman Ramos Mays continued his solid play with a 2-for-3 day at the plate. WU then headed to Greencastle, Ind., Saturday for a doubleheader at DePauw University. Again the Bears fell in an early hole as the Tigers went up 4-0 after three innings. WU got a run back in the top of the fourth, but the game ended at 4-1. Dusty Deschamp, Greg Kriegler and Joe Kelly each had a pair of hits, and Jon Curd pitched well despite the loss, striking out five and tossing a complete game. WU snapped the two-game skid with a convincing 6-1 win in the nightcap. The Bears took a 3-1 lead after two innings and added another in the fourth and two in the fifth. Kurt O'Neal threw a complete-game gem, striking out five and walking none. Andy Smith, Deschamp and Mays, who blasted a home run, each had two hits, while Mark Glover drove in two.





**Community contribution** Joel Fuoss (left) and Scott Adams, first-year graduate students in the School of Architecture, are working with the Design Collaboration Team for Bi-State Development Agency's Cross County MetroLink Expansion to fabricate models and other visual support materials for eight new MetroLink stations. The models serve as a resource for the design team and are also used in public meetings concerning the proposed route between Forest Park and Shrewsbury. Adams and Fuoss were offered the job on the strength of a speculative MetroLink station they designed for a graduate studio led by Jacqueline Tatom, assistant professor of architecture and co-director of the Master of Urban Design Program.

## Awards

**Arvidson, Waterston honored for achievements**  
— from Page 1

Under his leadership, his department has gained increasing prominence and is recognized as one of the best earth and planetary departments in the country. He has taken leadership roles at the University in connecting people and research in his department to other departments in Arts & Sciences, including helping develop the University's Environmental Studies Program and the Division of Natural Sciences and Mathematics, among other efforts.

"Ray Arvidson is a dynamic leader of young people, a recognized outstanding researcher, and chair of a department that continually makes important contributions to our understanding of the Earth and the cosmos, as well as contributions and collaborations with other departments at Washington University," Wrighton said. "He is richly deserving of the Arthur Holly Compton Faculty Achievement Award."

Arvidson has published more than 100 articles and books

dealing with remote sensing of Earth, Mars and Venus. He earned a bachelor's degree in geology from Temple University in 1969, a master's in 1971 and a doctorate in 1974, both in geology from Brown University. He joined the Washington University Department of Earth and Planetary Sciences in 1974. He was made full professor in 1984, and in 1991 was appointed chair of the department. He also is a fellow of the University's McDonnell Center for Space Sciences, a center James S. McDonnell funded in 1975.

In February, Waterston was a leader of the team that published a working draft of the human genome map and sequence.

"Bob Waterston's outstanding leadership of the Genome Sequencing Center and his dedication to his work and this University are truly remarkable," Wrighton said. "The human genome sequence will contribute greatly to the futures of medicine and science and improve quality of life for us all. In large part, we have Bob Waterston to thank for this milestone."

In 1990, Waterston launched a major effort to sequence the DNA of the microscopic roundworm, *Caenorhabditis elegans*. The sequencing of this first animal genome, completed in 1998, paved the way for the sequencing

of more complicated genomes, including human. Waterston and his colleagues have also sequenced the genomes of yeast and mustard weed, among others.

Named head of the Department of Genetics in 1991, Waterston founded the Genome Sequencing Center in 1993. The center was a principal member of the International Human Genome Sequencing Consortium, the public effort to complete the working draft. Centers from France, Germany, Japan, China, Great Britain and the United States collaborated on the project.

Waterston's leadership put the University at the forefront of this effort, contributing some of the project's most crucial aspects and creating technologies to increase the speed of DNA sequencing that made the completion possible.

Waterston was recently elected to the National Academy of Sciences and has received the Academy of Science of St. Louis' Peter H. Raven Lifetime Award and the Genetic Society of America's Beadle Award.

Waterston earned a bachelor's degree in engineering in 1965 from Princeton University and medical and doctorate degrees in 1972 from the University of Chicago.

## Mantle

**Seismologists map active region's flow pattern**  
— from Page 1

direction. This variation in velocity is usually due to the alignment of rock crystal orientations. The flow patterns in the earth align the rock crystals deep in the mantle. Scientists can thus determine the direction of mantle flow by mapping the anisotropy directions.

Seismic shear waves have vibrations that are perpendicular to the direction they are traveling. If the wave is propagating vertically, the vibration direction is horizontal. As the wave travels vertically, the horizontal vibration becomes split — one part vibrates in the fast direction, the other in the slow direction. The vibration in the fast direction travels faster and arrives at the seismograph sooner than the vibration in the slow direction. Smith studies the splitting of the shear wave arrival to determine the direction of mantle flow.

Most previous studies of the Earth's mantle flow relied upon seismometers placed on land. Such studies are limited because they cannot map mantle flow beneath the ocean, which covers two-thirds of Earth's surface.

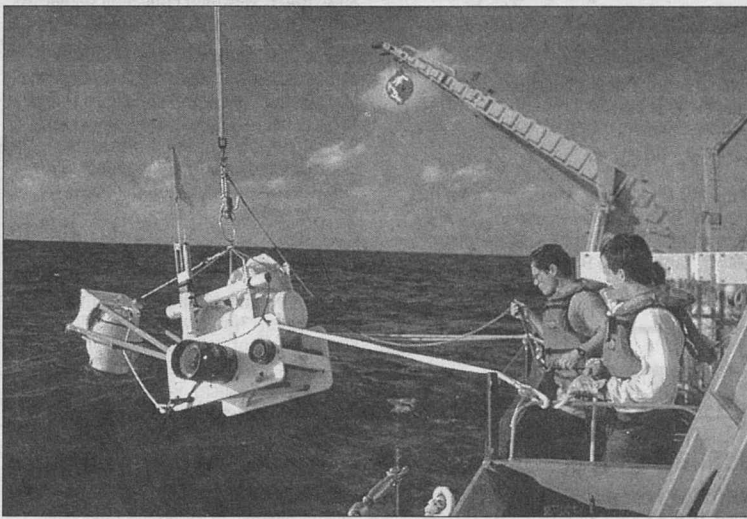
Smith's work, on the other hand, makes use of the most extensive array of ocean-bottom seismometers deployed in such a location.

Smith's results match geochemical studies of the region that compared ratios of helium isotopes to understand mantle flow. The helium isotopes suggest that the mantle material originated beneath the Samoan islands, about 400 miles to the north. The flow direction inferred from the shear wave splitting suggests the material flowed south from Samoa to Tonga through a gap in the subducting Pacific plate.

This is the first time that such

geochemical studies have been confirmed by extensive seismic mapping of the flow direction.

"The most exciting thing to come from this study is that the anisotropic fast direction rotates from an east-west direction far from the Tonga arc to north-south flow close to the trench," Smith said. "Unlike many seismic anisotropy studies, in this work we can clearly see that the shear wave splitting results from mantle flow in the Tonga region. This observation is particularly interesting, as it correlates well with the mantle flow directions determined from geochemical studies of helium isotopes."



Scientists from the University and Scripps Institute of Oceanography deploy an ocean-bottom seismograph in the Pacific Ocean.

## Admissions

**Work environment aids in office's success**  
— from Page 1

they have been working with throughout the year. This time of year also brings high school juniors beginning the college-selection process.

During the summer, the admissions office welcomes high school students for campus tours and interviews while planning the travel for the fall.

The admissions office's success can be attributed in large measure to its dedicated employees and the enjoyable work environment they create.

"I think people work in and with this office because they want to be a part of shaping the next generation of the University.

And ... it's fun," said Lee Nuckolls, associate director of undergraduate admissions. "I really like my colleagues in the office."

Work in the admissions office offers a wide range of opportunities, from planning admissions events to interacting with a wide variety of people, from prospective students and their families to current students and faculty on campus.

Opportunities such as coordinating the Multicultural Celebration during April Welcome and serving as an adviser to the Student Admissions Committee keep the admissions officers connected to the campus they are promoting.

"You'll never have the same day twice," said Jennifer Byers, senior assistant director of undergraduate admissions.

The admissions officers also

attribute their office's success to the support from the University as a whole.

"Admissions is a part of the campus. We interact with every aspect of the University at some point," Nuckolls said.

Student volunteers and faculty play a significant role in the admissions process.

"We have a lot of support from the rest of the campus," Byers said. "Everyone's very receptive to helping with the events. Faculty members meet with prospective and admitted students and welcome them into

their classrooms, and current Washington University students give tours and host prospective students in the residence halls."

Nuckolls said, "A lot of the student volunteers do interviews, tours and presentations because they remember what it means to be a prospective college student. I also think they

**"This job has exceeded my expectations. From the time I started in the office, everyone provided their input and gave me their tips for the job. People really work together in the office. Everyone's doors are open and it's a friendly atmosphere. I'm hooked."**

STEVE FRAPPIER

are proud to have chosen Washington University."

Beyond the support they receive from the rest of the University community, the admissions officers note the support they receive from each other.

"This job has exceeded my expectations," said Steve Frappier, assistant director of undergraduate admissions. "From the time I started in the office, everyone provided their input and gave me their tips for the job. People really work together in the office. Everyone's doors are open and it's a friendly atmosphere. I'm hooked."

For more information about volunteer or employment opportunities in the Office of Undergraduate Admissions contact Nanette Tarbouni, director of admissions, at 935-4615 or by e-mail at nanette\_tarbouni@aismail.wustl.edu.

## 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** 000256  
**Research Assistant** 000341  
**General Services Assistant** 000377  
**Research Assistant** 010023  
**Administrative Secretary** 010032  
**Director of Admissions and Marketing** 010069  
**Associate Director of Research Communications** 010107  
**Senior Medical Sciences Writer** 010108  
**Mechanic (Bargaining Unit Employee)** 010111-2  
**Research Assistant** 010140  
**Coordinator, Programming and All Campus Events** 010146  
**Director** 010149  
**Financial Aid Coordinator** 010155  
**Catalog Librarian** 010166  
**Assistant Facility Manager** 010179  
**Zone Manager** 010182  
**Career Development Specialist** 010187  
**Planned Giving Officer** 010194  
**Administrative Aide** 010197  
**Senior Prospect Researcher** 010213

**Associate Director of Foundation Relations** 010227  
**Senior Compliance Auditor** 010229-30  
**Associate Director, Annual Giving Programs** 010231  
**Senior Prospect Researcher** 010236  
**Reference/Subject Librarian (Psychology)** 010241  
**Reference/Subject Librarian (German)** 010242  
**Coordinator, Alumni & Student Marketing & Relations** 010245  
**Research Technician** 010250  
**Residential College Director** 010251-53  
**Receptionist** 010256  
**Administrative Assistant I** 010259  
**Partners in Education W/Parents Processor** 010267  
**Research Assistant** 010268

**Student Union Business Manager** 010269  
**Research Technician** 010271  
**Shuttle Coordinator** 010272  
**Deputized Police Officer** 010273  
**Admissions Officer** 010274  
**Director III** 010276  
**Site Operator/Technician** 010279  
**Associate Vice Chancellor** 010280  
**Assistant Intramural Director** 010281  
**Public Service Coordinator** 010286  
**Catalog Librarian** 010290  
**Marketing and Communications Manager** 010293  
**Support Services Assistant** 010294  
**Business Manager** 010295

**Special Media Collections Archivist** 010297  
**Circulation Assistant** 010298  
**Coordinator of Off Campus Living** 010299  
**Associate Director Development Communications** 010301  
**Technical Director** 010303  
**Sales Associate (part time)** 010304  
**Assistant Accountant** 010306  
**Academic Coordinator** 010308  
**Retention and Academic Advisor** 010309

### 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.  
**Secretary 1/Assistant Coordinator** 010453  
**Statistical Data Analyst** 010553  
**Editorial Assistant** 010676  
**Payroll Assistant** 010981  
**Secretary II (part time)** 011133  
**Business Manager** 011232  
**Medical Secretary II (part time)** 011275  
**Garage Attendant** 011411  
**Purchasing Assistant (part time)** 011434  
**Administrative Coordinator** 011439



## Notables

# School of Architecture announces Distinguished Alumni Awards

By LIAM OTTEN

The School of Architecture honored six outstanding alumni at its eighth annual Distinguished Alumni Awards Dinner April 20.

Terry L. Brown; Karl A. Grice, AIA; Christopher A. Grubbs; Earle G. Hamilton Jr., FAIA; and W. Stephen Saunders, AIA, received Distinguished Alumni Awards for their contributions to the practice and the school, while Elva Rubio, AIA, received the Young Alumni Award.

Gilbert Taylor Rogers was awarded the 2001 Dean's Medal for service to the school.

Brown is principal of the firm Terry Brown Architect and an adjunct associate professor at the University of Cincinnati's College of Design, Architecture and Planning. His work has been featured in numerous publications, including *Interiors Magazine*, *A.D. Architectural Design*, *Inland Architect* and *Progressive Architecture*. In 1995, he was a winner of the Cooper Hewitt Museum of Design's prestigious competition "40 Architects Under 40," held once each decade. Brown earned a bachelor of arts degree with a major in architecture from Iowa State University in 1977 and a master of architecture degree from Washington University in 1979.

Grice, a native St. Louisan, is principal of Grice Group Architects and former chief architect for the St. Louis Housing Authority. Recent projects include the Jackie Joyner-Kersey Boys & Girls Club in East St. Louis and the Mathews-Dickey Boys' Club in St. Louis. He is involved with numerous community organizations, serving as chair of the Planning Commission of St. Louis Inc., and on the board of the Landmarks Association of St. Louis Inc. He earned a bachelor of architecture degree from the University in 1974 and a masters from the joint degree program in architecture and

social work in 1976.

Grubbs has received international acclaim for his design and architectural illustration work on projects ranging from the Martin Luther King Jr. National Memorial in Washington, D.C., to master plans for the 2000 Sydney Olympics and the Shanghai Waterfront Redevelopment. He has drawn illustrations for the new San Francisco Ferry Terminal and the Crissy Field Restoration (adjacent to the Presidio); been a political cartoonist for *Gay Vote*; and served on the Lesbian and Gay Advisory Committee to the San Francisco Human Rights Commission. He earned a bachelor of architecture degree from the University in 1972 and a master of architecture degree in 1974.

Hamilton is one of the most distinguished architects in the Southwest, with projects ranging from the Dallas Convention Center and the A.H. Belo Building, also in Dallas, to the United States Mission Office Building in Geneva. He is co-founder of the Dallas firm Omniplan Inc., which has received more than 70 design awards, including the 2000 Texas Society of Architects' Firm of the Year Award. Hamilton was elected to the American Institute of Architects (AIA) College of Fellows in 1968 and is a former president of the AIA's Dallas chapter. He earned a bachelor of architecture degree from the University in 1943.

Saunders is principal of the Chicago firm Eckenhoff Saunders Architects, which, over the past 17 years, has completed more than 100 new buildings, 15 major renovations and two million square feet of interiors. Saunders serves as principal-in-charge of corporate, hospitality and industrial projects; he recently completed a \$50 million renovation to the historic Allerton Hotel. He currently sits on the AIA Illinois Board and is a former president of the AIA's Chicago chapter. Additionally,

Saunders is a self-taught photographer with work in the permanent collections of the Art Institute of Chicago, the Chicago Center for Contemporary Photography and the Santa Barbara (Calif.) Museum. He earned a bachelor of architecture degree from the University in 1972.

Elva Rubio is principal of Rubio/Durham Architects, which practices in Chicago and St. Louis, and a senior vice president at ISI/Epstein and Sons in Chicago. She also serves as adjunct visiting professor and director of the Second Year Program at the Illinois Institute

of Technology College of Architecture. Her work has received numerous AIA awards; two IBD National Interiors Awards; an American Association of Planners Award; and has been published in *Progressive Architecture*, *Interiors*, *Interior Design* and *Contract*. In 1998-99, she was one of 12 architects featured in the "Women in Chicago Architecture" exhibit at The Art Institute of Chicago and, in 2003, will be one of 10 architects included in "Chicago Architecture: Issues for the New Millennium." She earned a master of architecture degree from the University in 1992.

Rogers, now 93, retired in 1972 after 46 years in the telephone industry only to launch a second career as a community volunteer. A long-time supporter of the School of Architecture, his affiliation goes back to the late 1950s, when his daughter, Cynthia, visited as a prospective undergraduate. That daughter, Cynthia Rogers Weese, now leads the school into the 21st century as dean, while Rogers' life income gift of appreciated securities will play an important role in the renovation of Givens Hall, home to the School of Architecture, and will serve to name the dean's suite.



**Friends of Mother Nature** Members of Sierra Student Coalition and Gateway Green Alliance celebrated Earth Day 2001 by sponsoring an event in the Brookings Quadrangle Sunday. Those in attendance enjoyed live music, speakers, vegetarian food, storytelling, children's events and workshops on politics.

## Law students excel in numerous skills competitions

School of Law students recently won high honors in several regional and national lawyering skills competitions involving oral arguments and written briefs on issues ranging from intellectual property to trial advocacy, international law and environmental law.

In the Saul Lefkowitz Brand Names Education Foundation Moot Court competition, third-year law students Heather Buchta, Jaime Myers and Danica

**The law school was successful in the Saul Lefkowitz Brand Names Education Foundation Moot Court Competition, the National Trial Competition, the Philip C. Jessup International Moot Court Competition and the Environmental Moot Court Competition.**

Rodemich won first prize for best brief at the national finals in Washington, D.C. The team previously took first place in both the overall competition and the best brief category in the Midwest Regional Competition in Chicago. The competition focuses on trademark law issues. Charles R. McManis, J.D., professor of law, serves as the adviser for the team.

In the National Trial Competition, second-year Brooke Browning and third-year Thomas Rea captured first place in the regional round in Lincoln, Neb., and were

quarterfinalists in the national competition in Dallas. Additionally, third-year John Hein and second-year Cheryl Schuetze finished third in the regionals.

The law school has one of the strongest records in the country in the National Trial Competition, placing first or second in the

the memorial portion of the competition. Shin took third place in the high oralist portion. In the international rounds in Washington, D.C., the team's memorial finished seventh out of more than 300 teams. Law professor Leila Nadya Sadat, J.D., LL.M.,

D.E.A., advises the team.

In the Environmental Moot Court Competition, third-years Mikah Dixon, Kathryn Taylor and Jodi Wilson competed against 58 teams from schools

around the country in the national rounds at Pace University in New York. The team garnered high oralist in two of the three preliminary rounds and advanced through the quarterfinals to the semifinals.

The school's environmental team consistently has excelled in the national competition, advancing to the final round in 1998 and winning high oralist awards in several years. Maxine I. Lipeles, J.D., professor of law and director of the law school's Interdisciplinary Environmental Clinic, advises the team.

regionals and advancing to the nationals in 17 of the past 20 years. In the national round, the teams have advanced to the quarterfinals and beyond 11 times and have captured first place in the country twice. St. Louis Circuit Judge David C. Mason, a law school alumnus and adjunct professor, advises the team.

The Philip C. Jessup International Moot Court team won the Midwest Regional Competition for the third consecutive year. Third-years Regan Loyd and Ed Shin and second-years Micaela Ashe, Alexis Gorton and Joel Richardson took second place in

## Additional information on health benefit changes

Major changes in the University's health benefit plans will require all faculty and staff to re-enroll in health and dental insurance by May 31. Employees may take advantage of the following sources of information to help them choose the appropriate plan for themselves and their families:

**Employee meetings (explain and discuss changes in-depth) – April 30-May 4:**

Check open enrollment brochures or human resources' Web site (<https://hr.wustl.edu>) for more details. Employees who are unable to access this site should use the following address: <http://hr.wustl.edu/openenrollment>.

**Carriers Week (ask questions of carriers' representatives) – May 7-11:**

• Medical Campus: May 7, 9 a.m.-3 p.m. in the Seashell Lobby, McDonnell Science Building; and May 8, 9 a.m.-3 p.m. in the Seashell Lobby, McDonnell Science Building.

• Hilltop Campus: May 9, 9 a.m.-4 p.m. in the Gargoyle Room, Mallinckrodt Center; and May 10, 9 a.m.-4 p.m. in Holmes Lounge, Ridgely Hall.

• West Campus: May 11, 9 a.m.-4 p.m. in Multipurpose Room 2128.

**Medical School Benefits Fair (ask questions of carriers' representatives) – May 17-18 From 10 a.m.-3 p.m. May 17-18 in the Olin Hall Gymnasium.**

**Carriers' information phone lines and University benefits departments:**

Check open enrollment brochures or human resources' Web site for more details.

**Employees should remember three important points about this year's open enrollment:**

- All faculty and staff must re-enroll or waive health benefits;
- The deadline for accepting enrollment applications is May 31;
- Employees currently enrolled in health insurance who don't re-enroll by this deadline will default to the Blue Cross Basic plan.

## Corrections

April 20 issue, Page 3: An incorrect photo was published with a story about the research of Yi Rao, Ph.D., associate professor of anatomy and neurobiology. Yi Rao is pictured above.

April 20 issue, Page 7: An article incorrectly identified a degree earned by Nicholas S. Hugh, director of European Programs for the Olin School of Business. Hugh earned a master's degree in natural sciences from St. Johns College at Cambridge.





## Washington People

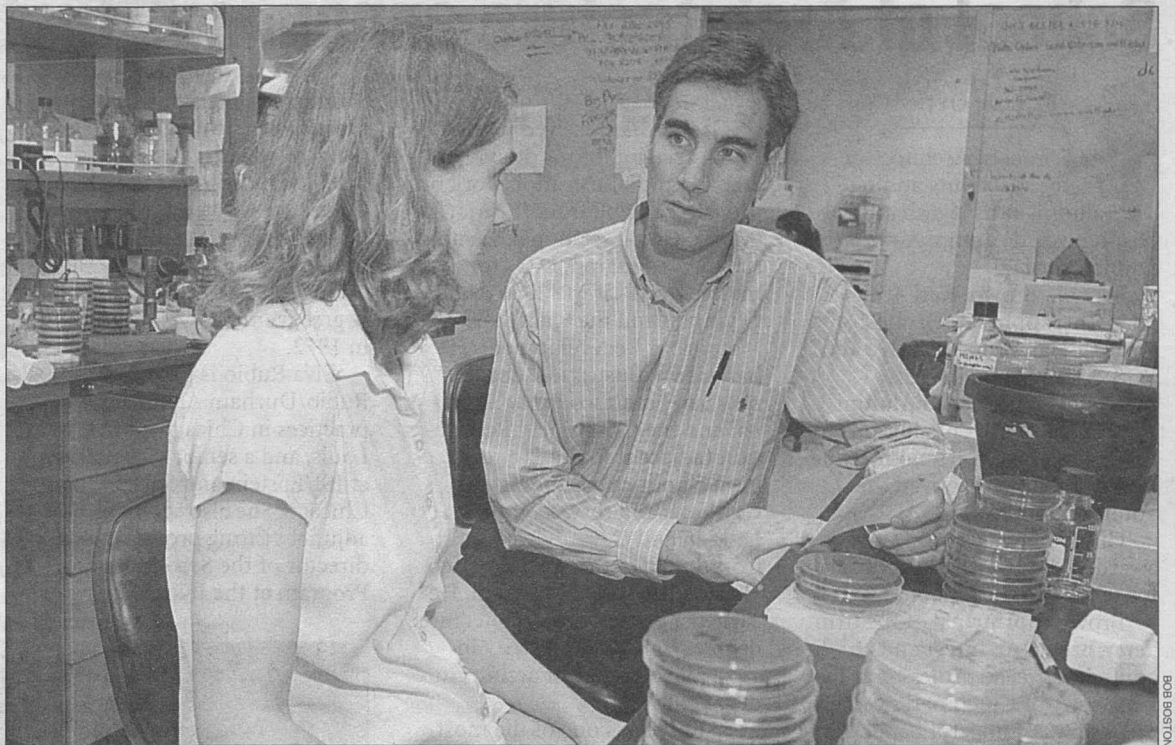
**A**sk a young child what he is going to be when he grows up, and you may hear "a football player," "a doctor," "a teacher," "a scientist" or "I'm going to be like my dad." Had you asked young Joseph W. St. Geme III, he may have answered all of these.

Thing is, he'd have been right.

St. Geme, M.D., associate professor of pediatrics and molecular microbiology and director of the Division of Pediatric Infectious Diseases at the School of Medicine, is a man of many roles.

"What is so satisfying about a career in academic medicine is the opportunity to have a varied day," St. Geme said.

That day may include a visit with his young patients at St. Louis Children's Hospital or a conversation with a pediatric resident he supervises. It could mean lecturing to medical students or directing a new experiment in his lab. Office time



Joseph W. St. Geme III, M.D., associate professor of pediatrics and molecular microbiology and director of the Division of Pediatric Infectious Diseases at the School of Medicine, and graduate student Amy Zoch review a protein gel to find evidence of an adhesion that is part of a recent study.

## Embracing daily variety

Joseph W. St. Geme III, M.D., loves his numerous roles as a leader, a teacher and a father

By ANNE ENRIGHT SHEPHERD

is needed, too, for strategically leading his division. More often than not, his day includes some of each.

"I just love all of those experiences," St. Geme said. "I couldn't really imagine giving up any of those things right now."

Praised by colleagues for his leadership, lauded by the Infectious Disease Society of America for outstanding achievement in infectious disease research — by all accounts, St. Geme excels in every role.

"As a leader and a teacher, he is understanding, considerate and supportive," said Penelope G. Shackelford, M.D., professor of pediatrics and associate professor of molecular microbiology. "He has a great sense of humor, often directed at himself."

Those who have been taught by St. Geme agree.

"There's hardly anything he doesn't do well," said David Hendrixson, Ph.D., who did his thesis work in molecular microbiology in St. Geme's lab. "He's obviously very successful, but he comes across as an average, ordinary guy."

"I still call on him for advice," added Hendrixson, now a postdoctoral fellow at the University of Michigan. "I will always consider him a mentor no matter where I am in my career."

### A father's influence

Born in Minneapolis the second of six children, St. Geme looked up to his father, after whom he was named and with whom he shared many interests. Joseph St. Geme Jr., M.D., moved his young family to southern California so he could chair the pediatrics department at the University of California, Los Angeles. His research in childhood infectious diseases won him professional praise and caught the attention of his young son, who enjoyed going into the lab on weekends to help his father catch up on experiments.

"I also remember going in to make rounds with him in the neonatal intensive care unit and getting pretty woozy when I saw premature babies for the first time," St. Geme said of his college years.

Throughout his education — as an undergraduate at Stanford University, as a medical student at Harvard Medical School and as a resident in pediatrics at the Children's Hospital of Philadelphia — St. Geme consulted with

his father. In doing so, he gained a growing understanding and deepening respect for the top-notch academician he'd known all his life.

"Certainly my dad has been a major influence in my life," St. Geme said. "I feel very lucky to have had him as a dad and as a role model."

Then, during St. Geme's third year of residency, he lost his role model and sounding board when his father died of a cardiomyopathy. Even now, 14 years later, St. Geme still feels the loss.

"There definitely were times during my fellowship and my earlier faculty years, and there

**"There's hardly anything he doesn't do well. He's obviously very successful, but he comes across as an average, ordinary guy."**

DAVID HENDRIXSON

certainly are times now, when I would have liked to have a conversation with him and pick his brain a little bit," he said.

Perhaps because of his father's example, St. Geme doesn't shy away from difficult choices.

While at Stanford, St. Geme played defensive back for the university's football team. A red-shirted season left him with one year of football eligibility remaining after he'd finished his academics. Medical school beckoned, but so did the dream of regaining his starting position as a defensive back and playing in one last bowl game. Keeping all options open, he applied to medical schools and waited to hear while he participated in spring drills with the team.

"I lost my starting position the previous season, and I didn't want to sit on the bench for a year when I could be pursuing my future," he said.

After being accepted by several schools, St. Geme decided on Harvard. Soon after, he learned the starting position was his for the asking. But the Harvard admissions committee had other ideas.

"They did not feel that another season of football was a laudable enough activity to merit an automatic deferral," he said. "So I thought pretty long and hard about things."

In the end, he chose to play football, and he has no regrets.

When he wasn't on the field, St. Geme worked in the lab of well-known immunologist Hugh McDevitt, M.D., a move he credits with stimulating his interest in basic research. He reapplied, Harvard accepted him into the next year's class, and the rest is history.

### Tomorrow's children

Today, St. Geme's research has him poised to make a difference in the lives of untold numbers of children around the world. By studying the bacterial organism *Haemophilus influenzae*, a common cause of respiratory tract infections such as middle-ear infection, sinusitis, bronchitis and pneumonia, he is shedding light on the precise ways in which cells become infected. Understanding the bacterium at the molecular level could translate

looks more generally at patterns of infection in children. By defining paradigms that apply to a variety of disease-causing organisms, his work helps provide insights into preventing infection by other pathogens.

In one line of research, he is studying human milk to learn more about its properties that help protect against infection. With collaborators in Boston and New Zealand, St. Geme is making observations about a breast milk component called lactoferrin, which could translate into new therapeutic approaches.

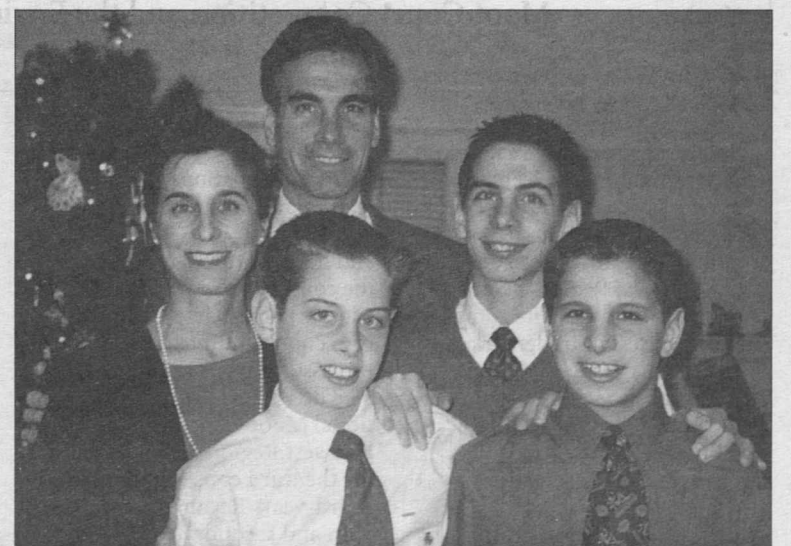
"Joe's research into the molecular mechanisms underlying the interactions of *H. influenzae* with the human host promise to provide improved immunization and alternative anti-microbial therapies for tomorrow's children," said Alan L. Schwartz, M.D., Ph.D., the Harriet B. Spoehrer Professor and head of pediatrics.

St. Geme and his wife, Lynn White, M.D., also a member of the faculty in pediatrics, value their roles as parents and stay actively involved with their three sons, Joe IV, David and Tom.

Soccer games, baseball practices and carpool schedules are just part of the routine in a family that sees variety as the spice of life.

"Generally, I think Lynn and I do a pretty good job of balancing our professional lives and our personal lives," St. Geme said. "In some ways, our boys have forced us to do that. It may be that we have dinner together at 5:30 or at 8:30, but almost all the time we have dinner as a family of five."

Although his sons are a long way from choosing their own careers, they don't have to look far for advice when the time comes. They can just ask their dad.



St. Geme with wife Lynn White, M.D., and sons (from left) Tom, Joe and David.

### Joseph W. St. Geme III, M.D.

**Born:** Minneapolis

**University positions:** Associate professor of pediatrics and molecular microbiology and director of the Division of Pediatric Infectious Diseases

**Education:** Stanford University, B.S., 1979; Harvard Medical School, M.D., 1984

**Family:** Wife Lynn White, M.D.; sons Joe, 14, David, 13, and Tom, 11