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Record

April 28, 2006

Volume 30 No. 31



Washington University in St. Louis

Epstein, Schaal elected to American Academy of Arts and Sciences

BY GERRY EVERDING
AND TONY FITZPATRICK

Lee Epstein and Barbara Anna Schaal have been elected fellows of the American Academy of Arts and Sciences.

Epstein, Ph.D., is the Mallinckrodt Distinguished University Professor of Political Science in Arts & Sciences and professor of law. Schaal, Ph.D., is the Spencer T. Olin Professor in Arts & Sciences and professor of biology, also in Arts & Sciences.

"Professors Schaal and Epstein are great representatives of Washington University's rich tradition of scholars who have been recognized by the American Academy of Arts and Sciences for their contributions to science and the humanities," Chancellor Mark S. Wrighton said.

"They symbolize the creativity and inventiveness that is the cornerstone of one of the most prestigious research universities, and we are all proud of their accomplishments and the honor they bring to our academic community."

Schaal and Epstein are among 195 men and women elected this year by the academy, an organization formed in 1870 to cultivate the arts and sciences and to recognize leadership in scholarship, business, the arts and public affairs.

The academy's membership of

over 4,500 includes more than 150 Nobel laureates and 54 Pulitzer Prize winners. Fellows are selected through a highly competitive process that recognizes individuals who have made pre-eminent contributions to their disciplines and to society at large.

This year's new fellows and foreign honorary members will be welcomed during an Oct. 7 induction ceremony at the academy's headquarters in Cambridge, Mass.

Epstein joined the political science department in 1991 and soon after became a full professor. From 1995-99, she served as department chair, and in 1998 she was named to the Mallinckrodt professorship.

In 2000, she received a dual appointment when she joined the law school.

Internationally recognized as a leading authority on courts, law and judicial politics, Epstein is fellow of the American Academy of Political and Social Science and the recipient of 10 research grants from the National Science Foundation.

She has authored, co-authored or edited 13 books, including award-winners *The Supreme Court Compendium: Data, Decisions, and Developments* and *The Choices Justices Make*.

Epstein has served as a member of the board of directors of the American Judicature Society and as a member of the board of trustees of the Law and Society Association. She sits on the editorial or advisory boards of several scholarly publications and is a past president of the Midwest Political Science Association.

Epstein earned three degrees from Emory University: a bachelor of arts in 1980, a master's in 1982 and a doctorate in 1983. She

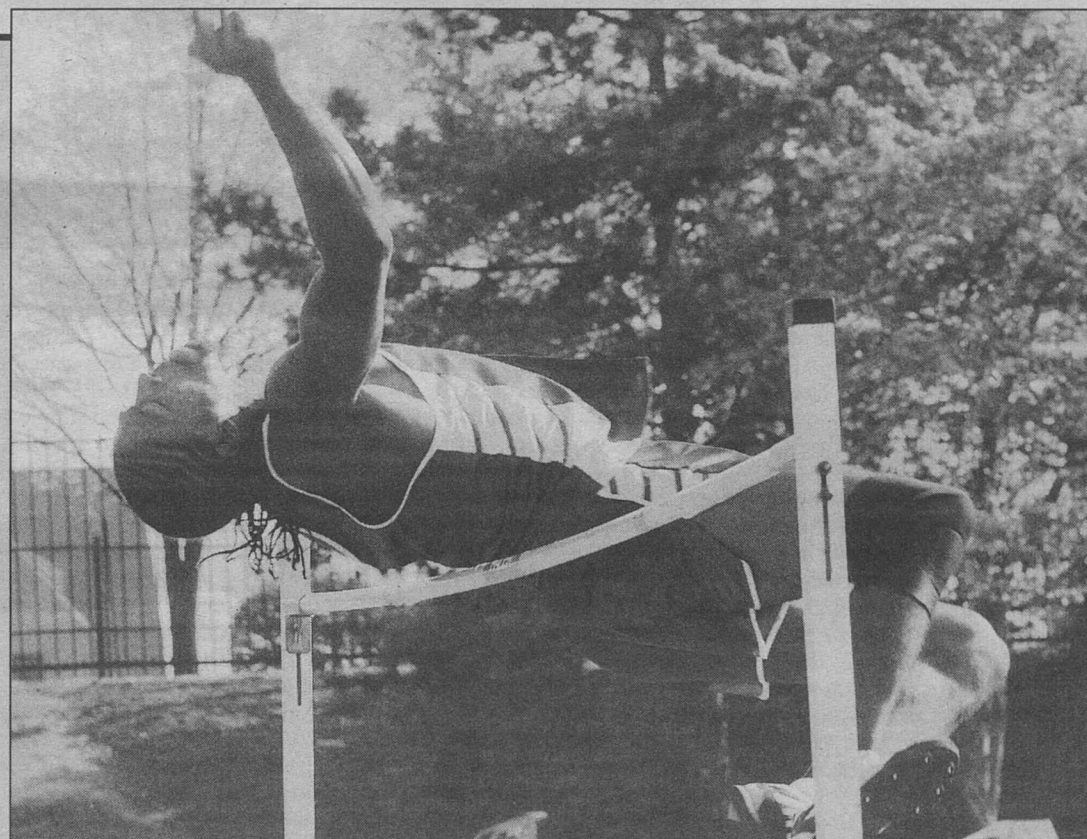
See Fellows, Page 6



Epstein



Schaal



With the greatest of ease With a high jump of 6 feet, 4 1/4 inches, junior Cameron Williams won the individual title at the University Athletic Association Outdoor Track & Field Championships April 22-23. For the second consecutive year, Washington University's men's and women's track and field teams swept the UAA championships. For more, see Sports, Page 6.

Trial to test radioactive implants & restricted surgery for lung cancer

BY GWEN ERICSON

A newly opened clinical trial at the School of Medicine will evaluate the use of radioactive implants combined with surgical removal of small sections of lung to treat stage I lung cancer.

The first patients are being enrolled at the School of Medicine, and the trial will soon be opened at centers nationwide.

For lung cancer patients who can tolerate it, lobectomy, or removal of an entire lobe of lung containing a cancerous tumor, is the preferred treatment. But some patients — those with poor lung function, heart disease or other



Meyers

conditions that raise the potential for surgical complications — can be at a high risk from a lobectomy.

Stage I lung cancer patients whose doctors have declared

they are not good candidates for a lobectomy may be candidates for the new clinical trial. Patients in the trial will receive a more limited surgery in which only a section or wedge of lung surrounding the tumor is removed to reduce the amount of postsur-

gical complications.

"In this trial, we'll remove half of a lobe or less," said Bryan Meyers, M.D., associate professor of surgery, who treats patients at the Siteman Cancer Center and Barnes-Jewish Hospital. "The less lung we take, the more lung function we leave behind, so patients will be better able to handle the surgery."

"Without this option, we would be able to treat the high-risk patients only with radiation and chemotherapy, and these treatments aren't as successful as actually removing the cancer."

Some investigations suggested

See Trial, Page 7

WUSTL named one of best places to work

BY ANDY CLENDENNEN

Washington University was named one of the top three "Best Places to Work" in the St. Louis *Business Journal's* annual survey of area employees.

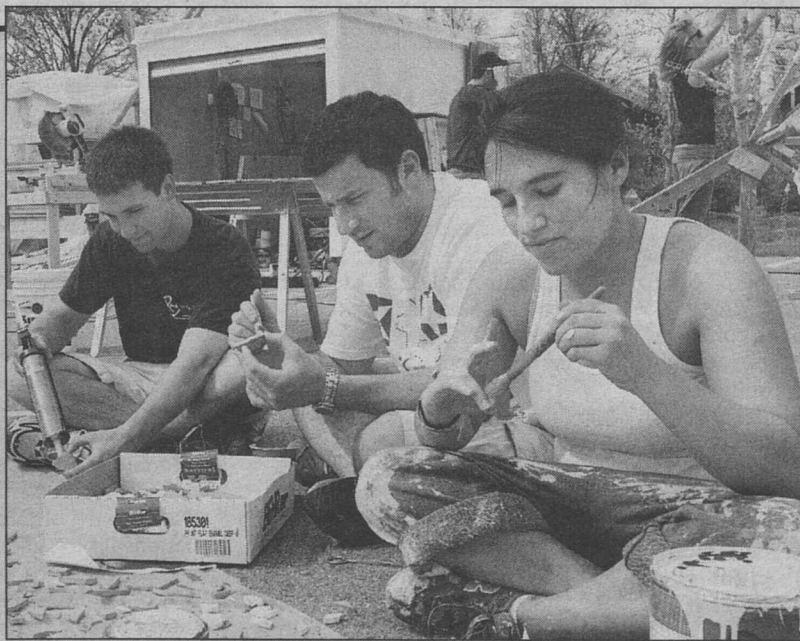
At a dinner and reception April 20 at The Westin Hotel, WUSTL was named one of the best workplaces in the large employer category.

"When colleagues have professed great satisfaction about being a part of this community, it validates what we are doing," Chancellor Mark S. Wrighton said. "I am proud to be a part of this family of scholars, learners and those who support their efforts."

"This honor also should remind us that with this recognition comes the responsibility to continually improve Washington University as a place of work."

According to the *Business Journal*, the University was recognized because of its tuition assistance programs for employees, spouses and dependents, its health plans and its retirement programs.

See WUSTL, Page 6



Every detail counts ... it's Thurtene! (From left) Seniors Ross Demain, Eli Zimmerman and Adi Noiman work on decorations to be used for Thurtene Carnival April 22-23 on the North Brookings parking lot. To see how the carnival turned out — including the end of an era as Jim Burmelster steps down after 35 years as adviser to the Thurtene Junior Honorary — see Page 5.

Students win Udall and Beinecke scholarships

BY TONY FITZPATRICK AND NEIL SCHOENHERR

Arts & Sciences juniors Jessica L. Friedman and Andy P. Schupanitz have received highly prestigious national scholarships.

For the second year in a row, Friedman has been awarded a Morris K. Udall Scholarship. Schupanitz will receive a \$32,000 Beinecke Scholarship for graduate study in the humanities and social sciences.

In addition, Jeffrey J. Marlow, also a junior in Arts & Sciences, was selected as an honorable mention in the Udall competition. He will receive \$350.

As a Udall Scholar, Friedman is one of 80 students nationwide recognized for their commitment to and previous work on the environment.

The Udall Scholarship is administered by the Udall Foundation and the Excellence in National Environmental Policy Foundation. The scholarship covers tuition, fees, books and room and board up to a maximum of \$5,000 per year.

Udall Scholarships are granted to those individuals who demonstrate a commitment to fields related to the environment, or to Native Ameri-

See Scholarships, Page 6

Women's Society presents scholarships, leadership award

By ANDY CLENDENNEN

In years past, The Women's Society of Washington University has awarded one full-tuition scholarship at its annual meeting.

But thanks to an improved endowment, the society was able to award both one full and one partial-tuition scholarship to deserving students. The society also awarded its ninth annual Leadership Award at its April 19 meeting.

Jorge Marcos received the 2006-07 full-tuition scholarship, Zachary Wegmann won the partial, and the Leadership Award was presented to Imani Anisye.

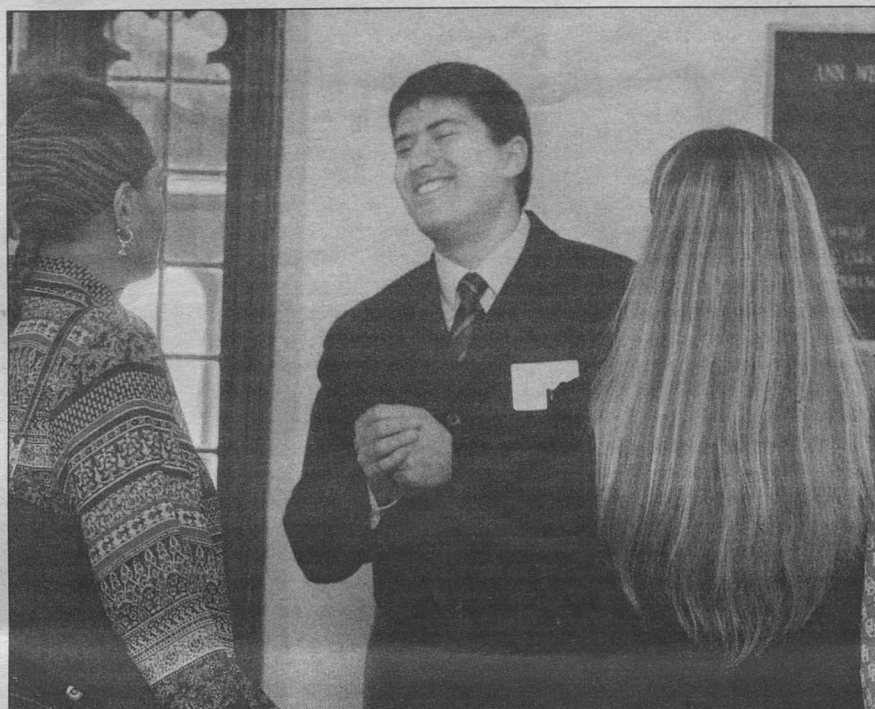
In 1976, the Women's Society established a full-tuition scholarship program, awarding an annual competitive scholarship to an outstanding community-college transfer student.

In 1995, the Women's Society named the endowment in honor of Elizabeth Gray Danforth as an expression of gratitude and admiration for all that she had done as first lady of Washington University for 24 years — 1973-1995. Her special personal qualities and total dedication have left an enduring imprint upon the University.

Chancellor Emeritus William H. Danforth joined Women's Society President JoAnn Sanditz in presenting the full- and partial-tuition Danforth Scholarships.

Originally from Zaragoza, Spain, Marcos had served in the Spanish navy. He has been studying at St. Louis Community College-Meramec and carries a 4.0 GPA in addition to his work and volunteer activities.

"I am looking forward to serving the Women's Society and Washington University in St. Louis for years to come," Marcos



Jorge Marcos enjoys a laugh with well-wishers at The Women's Society of Washington University's April 19 meeting. Marcos, who has been studying at St. Louis Community College-Meramec and carries a 4.0 GPA in addition to his work and volunteer activities, received a 2006-07 full-tuition scholarship from the society. "I am looking forward to serving the Women's Society and Washington University in St. Louis for years to come," Marcos said.

MARY BUTKUS

said, "and will work hard to give back all the generosity that I am receiving now."

Marcos has immersed himself in the American way of life by involving himself in a number of activities at Meramec — as treasurer of Phi Theta Kappa; production manager of *Montage*, the school newspaper; and a student ambassador.

Marcos was chosen for the Board of Trustees Scholarship, the *Montage* Journalism Award, Student Math League Certificate, the Dean's List multiple semesters and the National Dean's List.

His teachers describe him as a patient, helpful educator when working with students as a mathematics tutor; an excellent student and conscientious person; and collectively admired by his fellow students, the staff and faculty.

He wants to focus on aerospace and mechanical engineering at WUSTL.

Wegmann, also a Meramec student, carries a 3.61 GPA. He has served as a tutor and supplemental instructor for an organic chemistry class; a tutor in chemistry, calculus and physics; and as president of the Engineering Club.

He was named an Honors Program Scholar in the spring and Honors Alumni Scholarship recipient for fall 2005-spring 2006.

"I am very honored to receive this scholarship and have been dreaming of attending Washington University for the last three years," Wegmann said. "It is a beautiful campus and an awesome university with cultural diversity."

Wegmann's interests and activities outside of the classroom

include running, basketball, boxing and weightlifting. As a youth coordinator of the Boys' Club of St. Louis, he assists with holiday functions and officiates basketball, baseball and soccer games for inner-city youth.

He is interested in earning a bachelor's degree in chemistry or chemical engineering at WUSTL.

The Women's Society's Leadership Award recognizes one or more graduating senior women who have contributed significantly to the University community. Nominees must have demonstrated effectiveness in service to others and exceptional potential for future leadership.

Awardees receive a cash award of \$500 and a silver clock inscribed with a quote from Virginia Woolf: "I should remind you how much depends upon you and

what an influence you can exert upon the future."

Anisye will graduate in May with a bachelor's degree in biology in Arts & Sciences and carries a 3.67 GPA. Her honors include Mortar Board, the Paul Robeson Award, and on two different occasions, the Ralph Bunche Award.

She has gained experience in medical research at two universities, and she has participated in a service-learning program on health care in rural Tanzania, where she was able to use her knowledge of Kiswahili, a language that she mastered at WUSTL.

She has chosen to combine her passions for science and service by pursuing an M.D./Ph.D. and has been accepted into several programs. She is awaiting word on a Fulbright scholarship.

While these accomplishments are impressive, what makes Anisye truly stand out is that while she strives for excellence herself, she is equally motivated to help her peers along the way.

As a freshman class representative, she organized special help sessions for some of the highly demanding science and math classes. These sessions continue today and have contributed significantly to the upward trend in science and math performance among African-American premed students.

Perhaps her most notable achievement has been the founding of Healing Hands, an organization designed to give premed students an opportunity to shadow physicians in the inner city. The organization is often has more student interest than available physicians and clinics.

As co-president of the Black Premed Society, she has helped transform how students see themselves and approach their studies.

Morris directs NSF's Ocean Science Division

By TONY FITZPATRICK

Julie Morris, Ph.D., research associate professor in earth and planetary sciences in Arts & Sciences, is the new director of the Ocean Science Division of the National Science Foundation in Arlington, Va.

The NSF funds a substantial portion of the basic research performed by the U.S. academic community. Morris began her appointment April 24.

It is a "rotator" position, meaning she retains her appointment at the University during the duration of her NSF duties.

Morris will oversee a staff of more than 40 and a budget of slightly more than \$300 million.

She estimates that about one-third of the NSF job will be in strategic planning for the division, including personnel and

budget decisions. Another part will be working with other government agencies and organizations involved with research and management of the oceans, such as the

U.S. Navy and the National Oceanic and Atmospheric Administration.

The balance of her time will be split between administration of the division and

being part of the management team for the geosciences directorate, one of 12 that comprise the foundation.

"Both personnel and budget are on a different scale than I've ever worked with before," Morris said. "I find that challenging and

exciting. One of the things that I find particularly exciting is the exposure to a wide world of science beyond what I've been working with, and that's exhilarating."

Since October 2003, Morris has chaired the MARGINS office, a national NSF-funded science office that is a link between the foundation and the national research community, working on processes that control the formation and evolution of continental margins.

This gave her valuable experience in the management side of science and opportunities for science planning and management with many people around the country. It also put her in regular touch with NSF people, some of whom encouraged her to apply.

"I thought, 'Why not?'" Morris said. "I think what interested me

is that this is a job that requires the analytical skills that one uses in research plus the ability to work with people, make decisions and build consensus.

"I've been working on that in the MARGINS office. This position will allow both of those sides of myself to grow, in a way that research alone often doesn't."

Morris is eager to learn from experts who research physical, chemical and biological oceanography, marine geology and geophysics. In addition to research in these areas, the division supports many facilities and is a major funding source for research vessels used in oceanography and marine geology.

Many of the ships are owned by the Navy but operated through an organization called UNOLS, to which NSF is a major contributor. The famous deep-water submersible, *Alvin*, is funded this way, as well as its replacement being built now and capable of diving 6,000 meters.

As a geologist, Morris has a special interest in the oceans, particularly subduction zones, where the new lithosphere and oceanic crust created at mid-ocean ridges, along with sedimentary layers and trapped water are recycled into the deep mantle.

She has done lots of submarine research — including observing deep-water life in *Alvin* — but also a lot on land. She has explored the connection between volcanoes and earthquakes of the Pacific Ring of Fire, and their relationship to subduction zones.

Morris noted there are a number of ambitious new projects being funded through the Ocean Science Division. Among them is a new phase of an international ocean drilling program, involving scientists from around the world using drilling ships and

platforms provided by Japanese, European and American organizations.

Another is planning for ORION (Ocean Research Interactive Observatory Networks), which will develop and deploy observatories on the sea floor and in the coastal and open oceans to monitor activity in real time.

The division supports basic research in a wide range of topics, including marine ecosystems, the sub-seafloor biosphere, the oceans and human health, natural resources and natural hazards, the role of the oceans in climate change and geodynamics and plate tectonics of the solid Earth.

As a research professor, Morris does no traditional classroom teaching, but she does seminars, oversees research groups for students and a good deal of research mentoring.

Two of her graduate students, Dawn Cardace and Brian Dreyer, are finishing up their doctoral research within the next year.

As a rotator, Morris is able to return to the University from time to time for research, which will allow her to meet with her students.

Morris's husband, Robert Tucker, Ph.D., associate professor of earth and planetary sciences, has a two-year leave of absence and will be moving with Morris to the Washington, D.C., area. He will be working on a project funded by the World Bank and carried out in part through the U.S. geological services for resource exploration in Madagascar.

"The timing was perfect for Bob and me, so it didn't boil down to making a choice between a commuter marriage or not going," Morris said.

"I have many exciting challenges ahead of me. At the heart of them is the need to keep the core program science funding healthy as the division invests a lot in new infrastructure and the science it will deliver."

Chancellor's Concert April 30 to honor Mozart

The Washington University Chamber Choir and the Washington University Symphony Orchestra will present the 2006 Chancellor's Concert at 3 p.m. April 30 in Graham Chapel.

The concert will honor of the 250th anniversary of the birth of Wolfgang Amadeus Mozart (1756-1791) with a performance of the composer's popular *Vesperae Solennes de Confessore*, K. 339, for chorus and orchestra.

In recognition of the Russian Orthodox Church's observance of Easter April 23, the program will open with Nicolai Rimsky-Korsakov's *Russian Easter Festival Overture*. Written in 1887-88, the piece depicts the spectacle of this im-

portance Orthodox celebration while using liturgical chants from the obikhod, a collection holding those chants of great importance to the faith. The finale of the work is based on the canticle *Christ Is Risen!*

The program will continue with Mozart's *Vesperae Solennes de Confessore*, composed in 1779 for liturgical use in one of the main churches of Salzburg, the composer's hometown.

The program will conclude with Howard Hanson's *Second Symphony*, which the composer wrote in 1930 and subtitled "Romantic" for its lush harmonies and large orchestral forces, which recall the symphonic repertoire of the late 19th century.

As director of the Eastman

School of Music in Rochester, N.Y., for 40 years, Hanson exerted considerable influence on American composers and the direction of American music in the middle of the 20th century. *Second Symphony* has remained his most popular composition.

Dan Presgrave, instrumental music coordinator in the Department of Music in Arts & Sciences, conducts the 70-plus-member symphony orchestra. John Stewart, director of vocal activities, conducts the 60-plus-member chamber choir.

The Chancellor's Concert is free and open to the public. For more information, call 935-4841 or staylor@wustl.edu.

School of Medicine Update

Mutated gene may hold key to emphysema, rare skin disease

BY BETH MILLER

The discovery by School of Medicine researchers of a mutated gene associated with a rare skin disorder should give insight into more common diseases such as emphysema and aortic aneurysms.

Zsolt Urban, Ph.D., assistant professor of pediatrics and of genetics in the School of Medicine, and his fellow researchers discovered that a mutated gene, fibulin-4, causes a novel form of recessive cutis laxa, a disorder that results in severe connective tissue abnormalities in affected children.

The research is available online and will be published in the June issue of the *American Journal of Human Genetics*.

Cutis laxa, a genetic dermatologic condition, is characterized by unusually loose skin that may hang in folds off of the body due to underdeveloped elastic fibers. The research also found that mutations in fibulin-4 cause fragile bones, twisted blood vessels, aortic aneurysm, developmental emphysema and hernia in the diaphragm and groin areas.

Fibulins are a newly recognized group of matrix proteins that interact with other matrix proteins outside of cells, including elastic fibers. Urban's research is the first to associate fibulin-4 with recessive cutis laxa syndrome.

Urban and his fellow researchers discovered the mutated fibulin-4 gene in a 2-year-old child who had inherited a recessive, mutated fibulin-4 gene from each parent. She was born with cutis laxa and multiple bone fractures and developed an aortic aneurysm, emphysema, hernia and lax joints.

"These clinical observations show that fibulin-4 is important for a variety of connective tissues," Urban said. "A defect in any of the molecules necessary for elastic fiber formation could result in disease, such as cutis laxa."

Urban plans to use the findings to manipulate the fibulin-4 gene in zebrafish to create a research model for studying recessive cutis laxa. The transparency of the developing zebrafish will allow the researchers to observe the role of fibulin-4 in causing cutis laxa in a

zebrafish embryo.

"It's possible that there is an early developmental dysfunction that causes cutis laxa," Urban said. "In the zebrafish, we can see where the gene is activated, inactivate it and create a similar phenotype to what we have observed in the patient."

There are no drugs to treat cutis laxa and no known preventive measures. The recessive form of cutis laxa is fatal because of the emphysema and the aortic aneurysms, which could lead to sudden death if they rupture.

The only way to treat the disease is through cosmetic surgeries to repair the skin, although those often need to be repeated because

of the continued laxness of the skin. Patients require a lung transplant in cases of severe emphysema and surgical repair of an aortic aneurysm.

"Once we recreate the disease in zebrafish, we can look for drugs that might be beneficial to patients with this disorder and more common diseases like emphysema and then screen those drugs on the zebrafish," Urban said.

Urban has established an International Center for the Study of Cutis Laxa at St. Louis Children's Hospital, where a multidisciplinary team treats patients and investigates additional genetic causes of this disorder. Other School of Medicine faculty involved in the center include Susan Bayliss Mallory, M.D., professor of pediatrics and of dermatology; Kathy Grange, M.D., and Michael R. DeBaun, M.D., both associate professors of pediatrics and experts in human genetics; and Mark C. Johnson, M.D., associate professor of pediatrics and an expert in cardiology.

"Zsolt's tremendous new findings are a wonderful example of the value in exploring the genetic mechanisms of rare diseases," said Jonathan Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics and director of the Division of Genetics and Genomic Medicine at Children's Hospital. "Indeed, his work has great potential to provide insight into the causes of more common cardiovascular diseases in children."



Urban



BEAVEN PHOTOGRAPHY

(From left) Chancellor Mark S. Wrighton; Clay F. Semenkovich, M.D., professor of cell biology and physiology and of medicine and director of the Division of Endocrinology, Metabolism and Lipid Research; John F. McDonnell, vice chairman of the Board of Trustees; Gary D. Stormo, Ph.D., professor of genetics; and Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, mark the installation earlier this month of Semenkovich and Stormo as the Gasser and Erlanger professors, respectively. The professorships are named for Joseph Erlanger and Herbert Gasser, two former faculty members who were awarded the Nobel Prize in physiology or medicine in 1944.

Semenkovich, Stormo installed as Gasser, Erlanger professors

BY MICHAEL C. PURDY

The first two endowed professorships created as a component of the University's BioMed 21 initiative have been filled.

Gary Stormo, Ph.D., professor of genetics, was installed as the Joseph Erlanger Professor, and Clay F. Semenkovich, M.D., professor of medicine, was installed as the Herbert S. Gasser Professor earlier this month.

Stormo, director of the Computational Biology Graduate Program, specializes in analyzing how genes are turned on and off in different types of normal and diseased cells. Semenkovich, chief of the Division of Endocrinology, Metabolism and Lipid Research, studies connections between diabetes, obesity, insulin resistance and heart disease.

Endowments for the two chairs, and for two additional BioMed 21 chairs that have not yet been filled, came from John F. McDonnell, vice chairman of the Board of Trustees, and the JSM Charitable Trust Foundation.

"These are two outstanding faculty members whose interests and activities embrace the intended scope and ambition of BioMed 21, so it's very fitting that they became the first to hold BioMed 21 chairs," said Jeffrey Gordon, M.D., director of the Center for Genome Sciences.

Stormo, whose work centers on computerized analyses of DNA sequences, exemplifies BioMed 21's commitment to individuals who are able to work at the interface between the physical/computational sciences and biomedicine.

Semenkovich, who has active programs in both basic and clinical research, reflects BioMed 21's goal of putting insights gained in basic studies to use in clinical settings, a process often referred to as bench-to-bedside or translational research.

Both are noted for being involved in multiple collaborations with other faculty members in their own

"These are two outstanding faculty members whose interests and activities embrace the intended scope and ambition of BioMed 21, so it's very fitting that they became the first to hold BioMed 21 chairs."

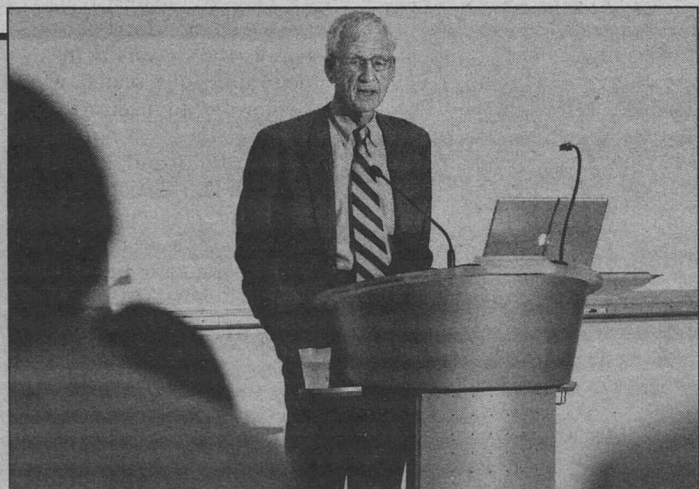
JEFFREY GORDON

and other departments, another goal of BioMed 21, which views future research and education related to the life sciences in a University-wide context.

"Since he came here in 1999, Gary has published papers with 15 different faculty members in 11 different departments on both the Medical and Hilltop campuses," said Mark Johnston, Ph.D., director of the Department of Genetics.

"They both epitomize the spirit of Washington University," Gordon added. "They're highly creative, innovative scientists as well as generous, kind, thoughtful and highly supportive human beings. Through force of their remarkable intellects and because of their personalities, they have been able to unite faculty from multiple disciplines so that they can work together to attack and solve important questions."

The new chairs are named for University faculty members who won the Nobel Prize in physiology or medicine in 1944 for their studies of the different functions of single nerve fibers. Erlanger was the chairman of the physiology department at the medical school; Gasser was a former student of Erlanger who came to join him on the faculty and later became head of the pharmacology department at the medical school.



TIM PHARMER

Tips from a pro Chancellor Emeritus William H. Danforth speaks on "The Past, Present and Future of Biomedical Research" at the Advanced Research Institute on Geriatric Mental Health at the School of Medicine. The National Institute of Health-funded Institute, hosted recently at WUSTL by Yvette Sheline, M.D., professor of psychiatry and director of the Center for Depression and Neuroimaging, focuses on the career development of junior faculty and is made up of a consortium of top U.S. universities, including WUSTL; Duke University; Cornell University; the University of Pennsylvania; the University of California, Los Angeles; the University of Rochester; and the University of Pittsburgh.

Siteman Cancer Center joins national cancer network

The Siteman Cancer Center has been accepted into The National Comprehensive Cancer Network (NCCN), an alliance of the world's leading cancer centers. The designation will allow Siteman Cancer Center access to and the ability to further improve cancer care guidelines.

With this addition, NCCN now comprises 20 centers dedicated to improving the quality, effectiveness and efficiency of oncology practice so patients can live better lives.

In addition to treatment excellence, the Siteman Cancer Center also provides access to clinical studies for all disease types and reaches out to more than 30,000 people yearly with cancer screening and education programs.

"We welcome the Siteman Cancer Center to the NCCN," said William T. McGivney, Ph.D., chief executive officer of NCCN. "Siteman is recognized internationally as a leader in the development and delivery of high quality cancer care."

"Siteman will serve to geographically complement other NCCN members in our unique, premier network," McGivney said.

Timothy J. Eberlein, M.D., the Bixby Professor of Surgery, professor of pathology and immunology, head of the Department of Surgery and director of Siteman, said, "As an NCCN member, the Siteman Cancer Center will be involved in the planning, development, and validation of therapies that represent

the future of cancer care. Oncologists at Siteman Cancer Center — medical, radiation and surgical oncologists — will not only contribute to the development of new protocols based upon the extensive basic and clinical research in cancer carried out here, but will also bring other ideas back to Siteman Cancer Center, creating new avenues of investigation and innovative patient care.

"Patients at Siteman Cancer Center will benefit from access to the most advanced clinical treatment protocols, receiving care from oncologists engaged in emerging technology, in a system dedicated to continuous quality improvement," Eberlein added.

University Events

Sam Fox School to present annual fashion design show

BY LIAM OTTEN

The Sam Fox School of Design & Visual Arts will present The 77th Annual Fashion Design Show May 7 at the Saint Louis Galleria.

The fully choreographed, Paris-style extravaganza will feature more than 50 professional and volunteer models wearing close to 130 outfits created by six seniors and 19 juniors from the school's Fashion Design Program.

The festivities will begin with a reception at 7:30 p.m. in the Galleria's Garden Court, near the entrance to Lord & Taylor. The hour-long show will start at 8 p.m., followed by a dessert reception for the designers and audience. Many of the featured couture creations will be available for purchase.

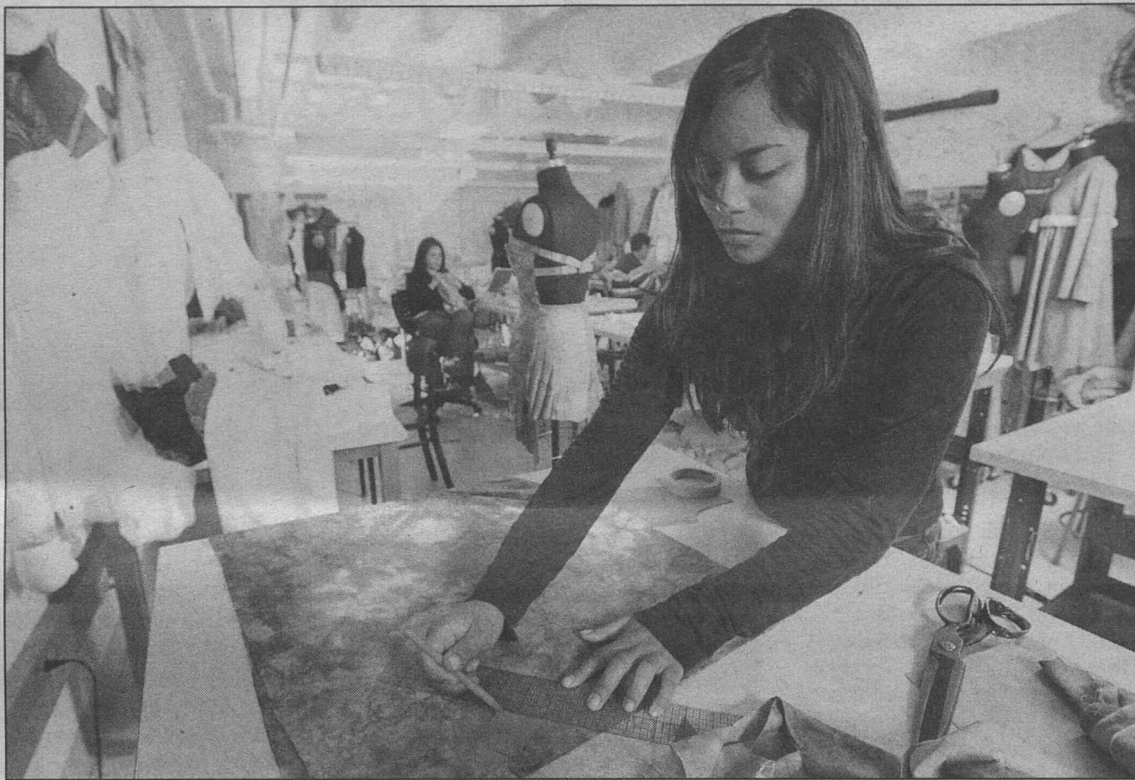
Broadway-style revue

Jeigh Singleton, head of the fashion design program, compared the show to a Broadway-style revue, filled with lights, music, drama and glamorous costumes.

"This is a unique event for St. Louis," Singleton said. "It's more design-oriented than sales-oriented. It's not a trunk show, it's not a benefit show, though it does benefit the Fashion Design Program. We want people to be entertained."

All clothing is selected by a jury of University faculty and local design professionals. This year's lineup will include opera coats paired with black gowns; skirts inspired by wine and grapes; sportswear inspired by Americana; dress groups inspired by the song "Gypsies, Tramps and Thieves"; and suits on the theme of "Blazers' Edge."

"The secret to these projects is that each is associated with a specific learning experience," Singleton said.



Rachel Lwin, a senior fashion major in the Sam Fox School of Design & Visual Arts, prepares for the 2006 Fashion Design Show, which will be May 7 at the Saint Louis Galleria. All clothing for the show is selected by a jury of University faculty and local design professionals.

ton said. "Each year, we may take a different slant or inspiration, but students are mastering very particular skills. How do you cut fabric? How do you make a pattern or a waistband? How do you line a garment or make a silhouette?"

"People have this notion of creativity as doing whatever you want, but they're wrong. Creativity is really about doing what you want while still meeting the technical requirements of the project."

The show will also highlight the seniors' signature collections, each a fully coordinated clothing line tailored to a specific audience and based on a specific theme.

This year's signature collections will include suits by John Watts; cocktail dresses by Rachel Lwin; lingerie by Natalie Antin; young men's sportswear by Andrea Forest; and contemporary sportswear by Sarah August and Jessica Nitchman.

"Up to this point, students have had a lot of assignments, but the signature collections are different," Singleton said. "They have to come up with everything — the inspiration, the designs, the fabrics, the deadlines — and I'm always shocked and amazed by what they've learned. This is when they really get to experience what fashion design is all about."

Show organizers

The Fashion Design Show is chaired by 1976 alumna Susan Block and coordinated by Jane Kairuz.

This marks the show's 12th appearance at the Galleria. For the 14th year, the models' hair will be done by Dominic Bertani of the Dominic Michael Salon.

Other organizers include Michael O'Keefe of Technical Productions and Gretchen Hafferkamp of Premiere Rentals. The models' makeup will be done by MAC.

Outstanding student designers will receive a variety of scholarships, cash prizes and awards. The Dominic Michael Silver Scissors

Designer of the Year Award will be presented to one outstanding senior at the end of the evening.

Block sponsors the Silver Ripper Award, presented to one outstanding junior. Kairuz sponsors the Coordinator's Choice for Most Inspiring Designer, which can go to a junior or senior.

Last year, approximately 500 people attended the event, raising about \$50,000.

Fashion design at WUSTL

The Fashion Design Show dates back to 1929, when Irving L. Sorger — merchandise manager for Kline's, a tony St. Louis department store — organized a show of student work for local garment manufacturers. Eight dresses were selected for production, sales surpassed all expectations, and juniors' fashions became a staple of the city's burgeoning garment industry.

In 1941, Washington University became home to what is believed to be the nation's first four-year, degree-granting fashion program.

Alumni over the years have included major designers such as Paula Varsalona and Carolyn Roehm. Recent graduates have worked for major fashion houses and clothing retailers, including Ralph Lauren, Tommy Hilfinger, Calvin Klein, Christian Dior, Nanette Lepore, Lilly Pulitzer, Nike, Lands' End and Fittigues.

General admission is \$50, \$25 for students. Tickets are available through the Edison Theatre Box Office, 935-6543, and at the Galleria Concierge Service Center. A limited number of tickets will be available at the door.

For more information, call the 24-hour fashion show hotline at 935-9090.

Parental Guidance Suggested • Executive Education • Violet

"University Events" lists a portion of the activities taking place April 28-May 11 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

April Welcome. Through April 30. Olin Library, Lvl. 1, Whispers Café Cube. 935-6626.

Road Show. Through May 5. Olin Library, Lvl. 1, Whispers Café Cube. 935-6626.

Spines: Washington University's Intercollegiate Arts & Literary Magazine. Through April 30. Olin Library Lobby. 935-6626.

Visual Poetry. Through May 30. Olin Library, Grand Staircase Lobby and Ginkgo Reading Rm. 935-5495.

Friday, April 28

6-8 p.m. Sam Fox School MFA Thesis

Exhibition Opening Reception. Des Lee Gallery, 1627 Washington Ave. 935-9347.

Tuesday, May 2

Sam Fox School Final Design Reviews & Exhibition. Through May 3. Givens Hall. 935-9347.

Film**Friday, May 5**

6 & 8:30 p.m. Travel Lecture Series. *Corisca and the Riveras.* Stan Walsh, dir. Graham Chapel. 935-5212.

7 p.m. Center for the Humanities Presentation. *Duma.* Co-sponsored by the Program in Film and Media Studies and Cinema St. Louis. Introduction by Stephanie Zacharek. Wehrenberg Ronnie's 20 Cine, 5320 S. Lindbergh Blvd. 935-5576.

Saturday, May 6

1 p.m. Center for the Humanities Presentation. *Saving Shiloh.* Sandy Tung, dir.

Co-sponsored by the Program in Film and Media Studies and Cinema St. Louis. Brown Hall, Rm. 100. 935-5576.

Lectures**Friday, April 28**

7:30 a.m.-4:30 p.m. Nuclear Medicine CME Course. "Images to Outcomes VI: Cardiovascular Imaging — Nuclear Cardiology and Beyond." (Continues 8 a.m. April 29.) Eric P. Newman Education Center. For cost and to register, 362-6891.

9 a.m.-5 p.m. African and African American Studies Conference. "Linguistic Profiling and Linguistic Human Rights." (Continues 9 a.m.-12:30 p.m. April 29.) Goldfarb Hall, Rm. 132.935-4978.

9:15 a.m. Pediatric Grand Rounds. "Fetal Homeland Security: Mechanisms by Which Maternal Diabetes Modifies Embryonic and Fetal Development." Kelle Moley, assoc. prof. of obstetrics & gynecology. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell Biology & Physiology Seminar. "Control of Metaphase Arrest in Unfertilized Egg by Cytostatic Factor." James L. Maller, prof. of pharmacology, U. of Colo. McDonnell Medical Sciences Bldg., Rm. 426. 362-6812.

2:30-6:45 p.m. Siteman Cancer Center Gynecologic Oncology CME Course. "Fourth Annual Gynecologic Cancer Conference." Cost: \$45. Eric P. Newman Education Center. To register: 362-6891.

4 p.m. Cell Biology & Physiology Lecture. Annual Erlanger-Gasser Lecture. "Actin Filament Dynamics During Cellular Motility and Cytokinesis." Thomas D. Pollard, Sterling Professor and chair of molecular, cellular and developmental biology, Yale U. Farrell Learning & Teaching Center, Connor Aud. 362-3964.

7:15 p.m. Chabad on Campus Shabbat Dinner Faculty Guest Series. Yossi Aviv, assoc. prof. of operations and manufacturing management. 7240 Forsyth Blvd. 721-2884.

Saturday, April 29

7:30 a.m.-3 p.m. Gastroenterology CME Course. "Liver Disease Therapeutic Challenges 2006." Cost: \$135. The Ritz-Carlton St. Louis. To register: 362-6891.

Monday, May 1

Noon. Molecular Biology & Pharmacology Lecture. "Control of Aging by Anticonvulsant Medicines and Neural Activity." Kerry Kornfeld, assoc. prof. of molecular biology & pharmacology. South Bldg., Rm. 3907, Philip Needleman Library. 747-3339.

Noon. Work, Families and Public Policy Brown Bag Seminar Series. "The Market for Executive Education." Gautam Gowrisankaran, asst. prof. of economics. Eliot Hall, Rm. 300. 935-4918.

4 p.m. Immunology Research Seminar Series. Paul E. Lacy Lecture. "AID for Generation of Antigen-induced Immune Diversity." Tasuku Honjo, dept. of medical chemistry, Kyoto U., Japan. Eric P. Newman Education Center. 362-2763.

4 p.m. Physics & Center for Materials Innovation Seminar. "Superconductivity in Ba2YRu1-xCu06 Paradigms in Danger?" William B. Yelon, depts. of chemistry & materials research, U. of Mo.-Rolla; dept. of physics, U. of Mo. (3:45 p.m. coffee.) Compton Hall, Rm. 241. 935-6276.

5:30 p.m. Cardiac Bioelectricity &

Arrhythmia Center Seminar. "Mechanisms of Atrial Fibrillation." Albert Waldo, Walter H. Pritchard Professor of Cardiology, prof. of medicine, prof. of biomedical engineering, Case Western Reserve U. (5 p.m. refreshments.) Whitaker Hall, Rm. 218. 935-7887.

Tuesday, May 2

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Virulence Gene Expression by *Bacillus Anthracis* and Implications for the Host." Theresa M. Koehler, prof. of microbiology & molecular genetics, U. of Texas. Health Science Center, Houston. Cori Aud., 4565 McKinley Ave. 286-2891.

Noon. Program in Physical Therapy Research Seminar. "Adaptive Modification of Locomotor Trajectory in Healthy People and People With Parkinson's Disease." Minna Hong, movement science program, program in physical therapy. 4444 Forest Park Blvd., Lower Lvl., Rm. B112. 286-1404.

Wednesday, May 3

7 a.m.-7:30 p.m. Internal Medicine CME Course. "The Washington Manual Comprehensive Internal Medicine and Board Review Course." (Continues May 4-7.) Cost: \$995 for physicians, \$795 for residents, fellows and allied health professionals. Eric P. Newman Education Center. For schedule and to register: 362-6891.

4 p.m. Biochemistry and Molecular Biophysics Seminar. "Integrated Computational Biology: From the Molecule to the Cell." J. Andrew McCammon, prof. of pharmacology, U. of Calif., San Diego. Cori Aud., 4565 McKinley Ave. 362-4152.

Thursday, May 4

Noon. Center for Health Policy Brown Bag Seminar Series. "The Prevention of Child Maltreatment." John Constantino, assoc. prof. of child psychiatry. McDonnell Medical Sciences Bldg., Shaffer Conference Rm. 935-9108.

3 p.m. Siteman Cancer Center Basic Science Seminar Series. Lewis Cantley, prof. of systems biology, Harvard U. Eric P. Newman Education Center. 454-7029.

4 p.m. Molecular Biology & Pharmacology Lecture. Annual David M. Kipnis Lecture. "Sir2 Genes, Calorie Restriction and Aging." Leonard P. Guarente, Novartis

Italian pianist Scotese to perform music of Bach & Busoni

Renowned Italian pianist Giuseppe Scotese will present a piano recital featuring the music of Johann Sebastian Bach (1685-1750) and Ferruccio Busoni (1866-1924) at 8 p.m. May 1 in Graham Chapel.

Scotese primarily focuses on the music of the 18th and 20th centuries and frequently juxtaposes them in concert.

The recital will feature a program of parallel works by Bach and Busoni, the latter of whom is probably best known for his grand transcriptions of Bach's organ music for the modern piano. (Vladimir Horowitz and other great 20th-century pianists regularly included Busoni's transcriptions in their concert repertoire.)

The program will begin with

Bach's setting of the chorale *Ehre Sei Gott in Der Hohe*, followed by Busoni's *Elegy No. 3: Chorale Prelude on Bach's Chorale Meine Seele Bangt Und Hoffet Zu Dir*. Scotese will then perform *Contrapunctus No. 19* from Bach's *The Art of the Fugue*, a compilation of imitative compositions.

Concluding the recital will be Busoni's *Fantasia Contrappuntistica*, which contains Busoni's variations on Bach's *Ehre Sei Gott in Der Hohe*.

He has recorded the piano sonatas of Giovanni Benedetto Piatti as well as the several discs of contemporary music.

His own composition, *Three Studies for Piano*, was published by Ricordi, Italy's leading music publisher.

The concert is free and open to the public and is sponsored by the Department of Music in Arts & Sciences. For more information, call 935-4841 or e-mail staylor@wustl.edu.

Memorial service

A memorial service for Justin Allen Yeo will be held at 7 p.m. May 3 on the basketball court on the South 40. The rain location is the Mudd House Multipurpose Room.

Yeo, a freshman in the College of Arts & Sciences from Arcadia, Calif., died April 16.

The service is open to all members of the University community.

'Coach' Burmeister steps down from Thurtene in grand style

BY NEIL SCHOENHERR

Even though he retired without having won a single game, this coach definitely went out a champion.

Jim Burmeister, executive director of University relations and Commencement, was honored April 21-22 after stepping down following 35 years as adviser to the Thurtene Junior Honorary and Thurtene Carnival.

More than 150 of the 455 students Burmeister has mentored over the years returned to campus — from places such as San Francisco, New York and Seattle — to celebrate the man known simply as "Coach."

"The most rewarding aspect of doing this for 35 years has been learning so much from the students," Burmeister said. "They are truly a delight to work with. It makes life worthwhile. They are fun, challenging, exciting and bright. It helps you have a great outlook on life."

Two student members of Thurtene entered Burmeister's office in 1971 when he was working as registrar, asking if he'd like to be the group's adviser.

"I thought it would be fun to do," Burmeister said, "but of course I never envisioned it would last this long!"

His efforts have not gone unnoticed.

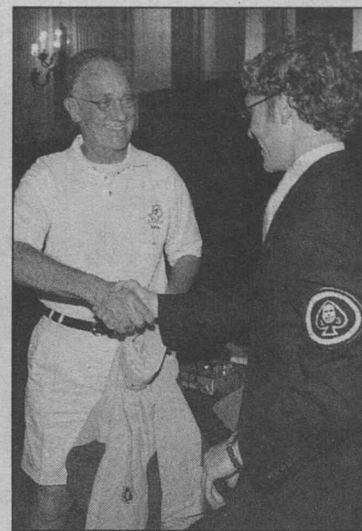
"Jim Burmeister has personified Washington University to generations of students who have been part of Thurtene as well as to all of us who know him," Chancellor Emeritus William H. Danforth said. "His selfless dedication and enthusiasm for our institution have been an inspiration to me as well as to the students he has mentored so well."

Burmeister was surprised April 21 with a party in Brookings Hall including more than 150 Thurtene alumni.

On April 22, more than 200 people attended a formal event honoring him for his commitment and officially dedicating "Coach Jim Burmeister Plaza" near the



Jim Burmeister was presented with a framed Thurtene 2006 poster, among other gifts. Looking on at left is Henry Biggs, Ph.D., assistant dean in Arts & Sciences, the new Thurtene adviser.



Jim Burmeister, outgoing adviser to Thurtene, receives a jacket from Dan Sarbacker, Thurtene alumni adviser, during a party honoring Burmeister April 22 in Holmes Lounge.



Freshman Nina Zhao leads a "camel" carrying senior Alex Reich during Thurtene Carnival April 22-23.

southeast corner of The Village.

Though the late-night carnival-planning meetings, sometimes lasting until 2 a.m., were at times physically taxing, Burmeister said he wouldn't change a thing.

"Working with these kids is so amazing," he said. "I'd recommend it to anyone."

Henry Biggs, Ph.D., assistant dean in Arts & Sciences, took the reins this year as Thurtene adviser.

"Jim Burmeister has personified Washington University to generations of students who have been part of Thurtene as well as to all of us who know him.

His selfless dedication and enthusiasm for our institution have been an inspiration to me as well as to the students he has mentored so well."

WILLIAM H. DANFORTH



More than 100,000 people attended the two-day carnival, taking part in rides, food, games and plays.

Linguistic profiling & human rights conference here

BY NEIL SCHOENHERR

A conference on "Linguistic Profiling and Linguistic Human Rights" will be held on the Hilltop Campus April 28-29.

Sponsored by the Program in African & African American Studies in Arts & Sciences and the Ford Foundation, the conference will explore issues surrounding legal considerations of linguistic profiling, fair housing, language restriction on the job and racial, sexual and deaf discrimination, among others.

The conference, from 8:30 a.m.-5 p.m. today

and 8:30 a.m.-12:15 p.m. April 29 in Goldfarb Hall, was organized by John Baugh, Ph.D., director of African & African American Studies and the Margaret Bush Wilson Professor in Arts & Sciences.

A renowned expert on the study of linguistics, Baugh's most recent work is on identification of the race of speakers from characteristics of their voices during telephone conversations, a process he termed "linguistic profiling."

Baugh received a Ford Foundation grant while at Stanford University to work on his study of linguistic profiling. The grant was re-

cently renewed and extended until June 2007.

Researchers from around the United States, including two from WUSTL, will speak.

Steven Gunn, J.D., associate professor in the School of Law, will present "The Persistence of Racial Discrimination in Housing: Section 8, Steering and Subprime Lending."

Iyabo Osiapem, Ph.D., instructor in African & African American Studies, will discuss "Caribbean Perspectives: Linguistic Diversity Among African-Americans."

The conference is free and open to the public. For a full schedule, call 935-5690.

Professor of Biology, Mass. Inst. of Technology, Cori Aud., 4565 McKinley Ave. 362-0198.

On: Attenuated Liver Stages." Kai Matschewski, asst. prof. of parasitology. Cori Aud., 4565 McKinley Ave. 362-4829.

Friday, May 5

3 p.m. Center for the Humanities Keynote Address. "Parental Guidance Suggested: A Brief History of Children in/at the Movies." Nicholas Sammond, author and asst. prof. of cinema studies, U. of Toronto. Co-sponsored by the Program in Film and Media Studies and Cinema St. Louis. McDonnell Hall, Rm. 162. 935-5576.

Saturday, May 6

7:30 a.m.-3:45 p.m. Cardiothoracic Surgery & Cardiology CME Course. "Recent Advances in the Management of Valvular Heart Disease: The Present State-of-the-Art in Diagnosis and Intervention." Cost: \$35. The Ritz-Carlton St. Louis, 100 Carondelet Plaza. 362-6891.

Monday, May 8

4 p.m. Immunology Research Seminar Series. "Genomic Approaches to Virus Discovery." David Wang, asst. prof. of molecular microbiology. Moore Aud., 660 S. Euclid Ave. 362-2763.

Tuesday, May 9

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Hitting the Plasmodium Life Cycle Early

Wednesday, May 10

4 p.m. Biochemistry and Molecular Biophysics Seminar. "Why tRNAs Are Different." Olke Uhlenbeck, prof. of chemistry, Northwestern U. Cori Aud., 4565 McKinley Ave. 362-4152.

7 p.m. Whitney R. Harris Inst. for Global Legal Studies Talk. "Genocide Emergency: Darfur, Sudan — Who Will Survive Today?" Jerry Fowler, staff dir., Committee on Conscience. (6 p.m. candlelight vigil.) Missouri History Museum, MacDermott Grand Hall. 935-7988.

Thursday, May 11

8:30 a.m.-3 p.m. Program in Audiology and Communication Services. Annual PACS Student Research Symposium. (Continues 8:30 a.m. May 12.) Farrell Learning & Teaching Center, Kathy E. Holden Aud. 747-0104.

Music

Sunday, April 30

3 p.m. Chancellor's Concert. Washington University Concert Choir and Symphony Orchestra. Graham Chapel. 935-4841.

On stage

Friday, April 28

8 p.m. OVATIONS! Series. *The Josephine Baker Project: Le Jazz Hot*. Imani Winds featuring René Marie. Cost: \$28, \$24 for seniors, WUSTL faculty & staff, \$18 for students & children. Edison Theatre. 935-6543.

Saturday, April 29

11 a.m. ovations! for young people series. *How Jeff Got His Groove Back*. Imani Winds. Cost: \$7. Edison Theatre. 935-6543.

8 p.m. Performing Arts Dept. Presentation. *Violet*. (Also 2 p.m. April 30.) Cost: \$15, \$9 for students, children, seniors, WUSTL faculty & staff. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

Sports

Friday, May 5

4 p.m. Softball vs. McKendree College. WUSTL Field. 935-4705.

And more...

Friday, April 28

Noon. Goldstein Leadership Awards in Medical Student Education Presentation. Moore Aud., 660 S. Euclid Ave. 362-7800.

Noon-5:30 p.m. Medical Education Day. Moore Aud., 660 S. Euclid, and Farrell Learning & Teaching Center. 362-7800.

5-7 p.m. University Libraries Event. Kranzberg Illustrated Book Studio Open House. West Campus, Lower Lvl., Kranzberg Book Studio. 935-6569.

Thursday, May 4

Noon. National Day of Prayer Observance. Brookings Hall Archway. 935-5850.

Sam Fox School B.A./B.S. Architecture Final Design Reviews. Through May 5. 935-9347.

Sunday, May 7

7:30 p.m. Sam Fox School 77th Annual Fashion Design Show. Saint Louis Galleria. 935-6543.

Monday, May 8

Sam Fox Graduate School of Architecture & Urban Design Final Review. Through May 10. 935-9347.

Record

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Sports

Track and field sweeps
UAA championships

For the second straight season, the men's and women's track and field teams swept the University Athletic Association Outdoor Championships.

The Bears secured both outdoor titles April 23 in Cleveland, totaling 13 individual crowns on the day. The Bears women tallied seven individual titles in the final day of competition, led by sophomore Tricia Frisella, who captured two championships — the 1,500 meters and 5,000 meters. Junior Delaina Martin won her second UAA title in two days, winning the hammer throw. She won the shot put on Day 1. Freshman Alli Alberts (javelin); sophomore Abbey Hartmann (3,000 steeplechase); senior Andrea Moreland (800 meters); and the 4x400-relay squad also won.

For the men, senior David Skiba highlighted several outstanding performances, winning both the 110- and 400-meter hurdles titles. Junior Kevin Gale joined Skiba with two individual titles on the day, taking first in the 3,000 steeplechase and 5,000 meters. Senior Karl Zelik (triple jump) and the 4x100-meter relay squad also placed first.

Baseball team rallies
vs. Illinois Wesleyan

The No. 28 baseball team (30-5) rallied to defeat Illinois Wesleyan University, 9-3, April 20 in Bloomington, Ill. The Bears broke through with three runs in the top of the seventh. Junior Andy Shields then gave Washington U. the lead with one out in the eighth inning, taking the first pitch over the right-center field wall for his third home run of the season. In the ninth inning, the Red and Green exploded, thanks to senior Alan Germano's grand slam. Brent Buffa posted his team-leading ninth complete game and improved to 9-0.

Softball team sweeps
Fontbonne, Greenville

The No. 15 softball team posted a 5-1 record last week as it swept doubleheaders from Greenville College and Webster University, and split games with Fontbonne University. Junior Laurel Sagartz went 5 for 7 with three home runs and 12 RBIs to lead the Bears to a doubleheader sweep over Greenville April 18. She made history in the second game by hitting two homers in the third inning, becoming just the third player in Division III history to achieve the feat.

The Bears swept a doubleheader against Webster University April 22 to conclude the week; Sagartz threw a no-hitter in Game 1.

Men's tennis takes 2nd
at UAA championships

The No. 8 men's tennis team posted a 4-1 record last week, and placed second at the UAA championship in Atlanta. The Bears opened the week with non-conference victories over Division II University of Missouri-St. Louis (6-1) and Southern Illinois University at Edwardsville (7-0).

The Bears opened the UAA tourney with wins over Brandeis University and Carnegie Mellon, but fell in championship match to top-seeded and No. 2 Emory, 6-0.

Women's tennis
takes 3rd at UAAs

The No. 19 women's tennis team (14-8) went 2-1 last weekend to place third at the UAA Championship in Atlanta.

The Bears opened with a 7-2 win against New York University April 21. After a 5-1 loss to top-seeded and No. 5 Emory University in the semifinals April 22, the Red and Green turned in an impressive comeback in the third-place match, beating the University of Chicago, 5-4.

Specifically addressed are the retirement savings plan, tuition assistance, rising costs of health insurance, health savings accounts, and saving for retiree medical expenses.

The University remains committed to environmental responsibility and to finding ways to conserve energy while providing greater service. Starting this summer, WUSTL will provide qualifying faculty, students and staff with all-points Metro passes that will allow them free access to MetroLink and MetroBus on both sides of the river in urban and suburban Illinois and Missouri.

Five MetroLink stops will serve four of the University's campuses so that nearly everyone who now works at the University can now opt for public transportation paid for by the University.

These passes have also been made available to employees of the University's contracted companies — a group of workers to whom the University has made commitments to help improve wages and to provide greater access to benefits.

Also in the past year, the University developed a generous entry-level wage that is well above starting average hourly compensation levels for comparable positions in the St. Louis region. The University is working with a local health-care proprietor to allow contracted workers access to care.

In the coming year, the University will provide additional significant funds toward continuing the improvement of circumstances for lower-paid workers. To this end, the University is committed to fair practices respecting those who work for the University, as well as those who work for contractors providing services to our community.



Fusion of engineering and culture Performers ranging from age 12-18 receive congratulations after "A Concert for Orphans" April 8 in the auditorium of Uncas A. Whitaker Hall for Biomedical Engineering. The show was sponsored by the Department of Biomedical Engineering in the School of Engineering & Applied Science and was presented by Children's Hope International and Worldways Children's Museum. An audience of about 200 heard outstanding classical music performed by winners of the Midwest Baldwin Piano Competition held in Kansas City in October. Svetlana and Svyatoslav Levin, classical pianists from Russia who now live in Kansas City, brought the program to Whitaker Hall. Last year, they held the first benefit concert to raise money for orphans around the world. This was the second such annual concert, with a specific focus on raising funds to provide musical instruments for an orphanage in Ethiopia.

Scholarships

Success is a 'great tribute to the quality of teaching'
— from Page 1

can or native Alaskan students in fields related to health care and tribal public policy.

Congress established the foundation in 1992 to honor Udall and his legacy of public service.

Friedman has been active since fall 2003 in the student group Volunteers for Environmental Restoration, Development and Education, which teaches elementary- and middle-school students about the world around them and encourages action to protect the environment. She teaches lessons every two weeks.

"Jess looks set to be a leader both in the academic community of environmental scientists and in the broader public debates about human land use," said Ian MacMullen, Ph.D., assistant dean in the College of Arts & Sciences. "Her double success in the Udall Scholarship competition could not be more deserved."

Earlier this semester she spent six weeks in Woods Hole, Mass., learning about oceanography, nautical science, and maritime history and literature.

Then for six weeks she sailed from Tahiti to Hawaii, conducting an oceanographic research project and learning how to sail a 135-foot-long vessel.

She wanted to get a better understanding of the ocean and the links between chemical, biological, physical and geologic processes.

Friedman and Marlow are members of the University's

Pathfinder Program, a four-year educational experience researching environmental sustainability.

Limited to a small number of students, the program reaches out to talented incoming undergraduates with interests in the environmental sciences.

Pathfinder relies on case studies and field-based excursions to educate students about the issues surrounding environmental sustainability.

Over the years, Pathfinder students have found unique educational opportunities in such places as Hawaii, the Mojave Desert in California and Rio Tinto in Spain. This provides students the opportunity to meet and bond with a select group of students and faculty.

The Pathfinder Program provides an excellent introduction and education "path" in the Program in Environmental Studies in Arts & Sciences in either the natural or social sciences.

Schupanitz is one of only 20 Beinecke Scholarship winners from around the country.

Schupanitz is an interdisciplinary project in the humanities major in Arts & Sciences. His work encompasses economics, literature and philosophy, with a focus on the 17th-19th centuries in France and America.

Though he has not decided on which graduate school to attend, Schupanitz knows he wants to study law and history, possibly pursuing a dual degree. He plans to examine social and political history, with an emphasis on 18th-century France and America. He's also interested in how social and political history translates into law.

"The Beinecke Scholarship constitutes a great and well-mer-

ited vote of confidence in Andy," MacMullen said. "The award recognizes the sophisticated nature of Andy's interdisciplinary work in the history of ideas, work that encompasses economics, literature and philosophy."

"He is a credit to Washington University."

On campus, Schupanitz is involved with the Amateurs and One in Four. The Amateurs is one of the University's co-ed a cappella groups, and he will be taking over as music director next year.

One in Four is an all-male peer education group that focuses on rape education and prevention, specifically within a university setting. This past year, as director of training, he trained and educated new members to prepare them for facilitating discussions and becoming active members.

Schupanitz is excited to be chosen as a Beinecke Scholar.

"I would say it's a healthy dose of encouragement to keep on doing what I am doing, studying what I am studying," Schupanitz said.

"It's sometimes easy for me to fall into the trap of constantly questioning the merits of my course of study. So it's nice to be reminded by the folks running the Beinecke that I'm not the only person who thinks this is interesting, and that yes, it is important."

MacMullen added, "The University is delighted to extend its outstanding record of success in the Beinecke competition. Our nominee has been honored with a scholarship in four of the last five years."

"That success is a great tribute to the quality of teaching and mentorship in the humanities and social sciences at Washington University."

level systematics.

Schaal was elected a fellow of the American Association for the Advancement of Science and, in 1999, a member of the National Academy of Sciences where she serves as the first woman vice president. In addition, she was on the board of trustees of the St. Louis Academy of Sciences and the Missouri chapter of the Nature Conservancy.

She has been associate editor of the journals *Molecular Biology and Evolution*, *The American Journal of Botany*, *Molecular Ecology and Conservation Genetics*. She was president of the Botanical Society of America and The Society for the Study of Evolution.

ulations using a wide variety of techniques, from field observations to quantitative genetics and molecular biology. She has studied hosts of plant species ranging from oak trees to Mead's milkweed, a Midwestern prairie plant.

Her recent work has turned to wild relatives of crop species, such as cassava and rice, both major subsistence crops of the tropics. She is known for applying molecular genetic techniques to the study of plant evolution.

Current projects in her lab, many in collaboration with researchers from the Missouri Botanical Garden, span the range from molecular evolution of specific DNA sequences to higher-

Fellows

Schaal is VP of National Academy of Science
— from Page 1

taught at Emory and Southern Methodist University before joining WUSTL.

In 2005, Epstein spent a semester as the Jack N. Pritzker Distinguished Visiting Professor of Law at Northwestern University. She joined Northwestern's law faculty this fall.

Schaal investigates the evolutionary process within plant pop-

Notables

Social work to present alumni & other awards

BY JESSICA MARTIN

The George Warren Brown School of Social Work will honor five distinguished individuals for outstanding school service during its annual alumni banquet May 2 at the YWCA Phyllis Wheatley Heritage Center.

The Distinguished Alumni Award recipients will be Alvin L. Schorr, William F. Siedhoff and Bernarda (Bernie) Wong.

Gautam N. Yadama, Ph.D., associate professor and director of international programs in the School of Social Work, will receive the Distinguished Faculty Award. The Dean's Medal recipient will be Sima K. Needleman.

Schorr, professor emeritus at Case Western Reserve University's Mandel School of Applied Social Sciences, is one of the pioneer planners, activists and writers on social policy in the United States. Throughout his long and distinguished career, his focuses have remained the same: children, family, poverty and inequality.

Schorr has been on the faculty

at Case Western since 1979 and is the former dean of the Graduate School of Social Work at New York University. A prolific author, his latest book, *Passion and Policy: A Social Worker's Career*, combines autobiography with professional reflections and insights into life and the social work profession.

To help with the education of future social work leaders, Schorr has established an annual scholarship for a WUSTL social work student with a demonstrated commitment to child welfare.

Siedhoff, director of the Department of Human Services (DHS) of the city of St. Louis, has dedicated his career to advancing the delivery of social services both statewide and most recently in the St. Louis region. Under his leadership, DHS and its five divisions coordinate the programming and funding necessary to deliver a wide range of social service and housing programs to St. Louis residents.

Siedhoff sits on 32 boards and committees. He is one of the founders of the Council on Child

Abuse and Neglect and helped establish the Family Support Network, an organization committed to strengthening families and preventing child abuse and neglect in the St. Louis area.

Committed to social work education, Siedhoff serves on advisory boards for all four of the social work schools in the state of Missouri.

Wong, founder and president of the Chinese American Service League (CASL), has grown CASL from a one-person initiative to one of the largest multiservice social service agencies in the nation supporting the Asian-American community. CASL's staff provides a variety of professional services including counseling, employment and placement, child care, elderly programs and advocacy and leadership development.

Universally lauded as a leader in the Asian community both in Chicago and nationwide, she has received numerous recognitions, including the United Way of Chicago's Executive of the Year Award.

Committed to community service and dedicated to promot-

ing the interests of the Asian community, Wong has chaired the Mayor's Advisory Council on Asian Affairs in Chicago under mayors Harold Washington and Richard M. Daley. She serves on the board of the Chicago Commission on Human Relations.

Yadama has been a valued scholar, teacher, collaborator and mentor since joining the School of Social Work in 1991.

Much of his work focuses on not only training graduate students but also in building new research and policy initiatives to foster greater participation of underserved populations in shaping social service delivery and social policy infrastructure.

Yadama's field research and international collaborations have taken him to India, Bhutan, Nepal, Mongolia, Vietnam, Thailand, the post-Soviet Republics of Central Asia and the Caucasus and, most recently, China. In 2000-01, he was awarded a senior Fulbright scholarship to Nepal.

In addition to his significant service to the School of Social Work, Yadama is actively engaged in the University community through his work with the Mc-

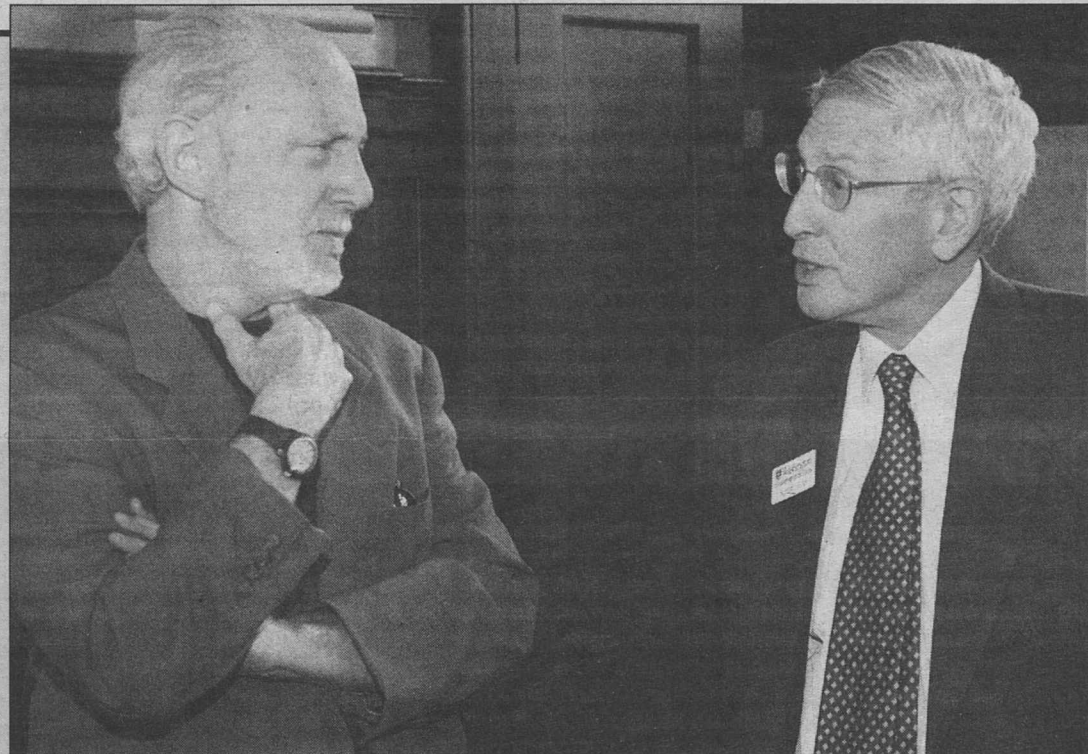
Donnell International Scholars Academy, the Center for New Institutional Social Sciences and on the executive committee of the Program in International and Area Studies in Arts & Sciences.

Needleman has been an active contributor to the School Social Work and the St. Louis community. She has been a member and president of the school's alumni board as well as chairperson for the school's annual fund.

As a member of the school's national council, Needleman also has been providing input and guidance on the future of the school for more than a decade. In 2000, she conceived the idea for and led the development of the school's Healing Racism Group.

Needleman's professional expertise is in medical social work with significant experience in helping women address infertility issues. The first 16 years of her career were spent working with OB-GYN patients at Jewish Hospital. She had her own private practice until 1998.

Needleman has a long history of volunteerism and has worked with numerous agencies and groups in St. Louis.



Faculty mentor awarded Robert H. Koff, Ph.D. (right), director of Cornerstone: The Center for Advanced Learning, chats with Jeffrey Goodman, an English teacher at the Alabama Mathematics and Science Academy in Mobile, Ala., following Goodman's recognition as winner of the 2006 Cornerstone Faculty Mentor Award April 10 in Holmes Lounge. Senior Felicia Webb nominated Goodman, saying, "Having Dr. Goodman as a professor greatly helped my intellectual growth, not only improving my confidence and writing skills, but also helping me to realize that, with hard work, I had the capabilities to master any task set before me, despite what obstacles or discouragement may lie ahead."

Undergraduates excel at national and statewide math competitions

A WUSTL team of Jon Pinyan, Huajia Wang and Eric Wofsey ranked 32 out of approximately 400 teams registered at the 2005 William Lowell Putnam Mathematical Competition in December.

The Putnam is an undergraduate mathematics contest involving about 3,500 students from across the United States and Canada, designed to test originality and ingenuity as well as technical competence. It consists of two three-hour sessions, each session having six problems.

About 3,500 students participate individually in the competition each year. Some of the competition participants are also designated as part of their school's team.

Individually, senior Nate Watson ranked 57 among all contestants, and junior Jon Pinyan ranked 100.5.

Several other students — Jeremy Diepenbrock, Justin Gilmer, Igor Konfisakhar, Ben Robinson and Eric Wofsey — ranked among the top 500.

In the competitions from 1976-2005, WUSTL teams have placed in the top 10 in 18 of 30 competitions, including 11 top-five performances.

The 11th annual Missouri MAA Collegiate Mathematics Competition was held March 30-31 at University of Missouri-Columbia. A total of 89 students competed, making up 35 teams from 16 colleges and universities in Missouri.

WUSTL's Jon Pinyan, Ben Robinson and Nathaniel Watson took first place as a team, and Justin Gilmer, Igor Konfisakhar and Melanie Veale took third.

The Putnam participants were coached by N. Mohan Kumar, Ph.D., professor of mathematics in Arts & Sciences, Richard Rochberg, Ph.D., professor of mathematics, and Carl Bender, Ph.D., professor of physics in Arts & Sciences.

Ron Freiwald, Ph.D., professor of mathematics, was the sponsor for the MAA Missouri Competition.

Obituary

Wahl, professor who discovered plutonium; 89

Arthur G. Wahl, Ph.D., the Henry V. Farr Professor of Radiochemistry from 1952 until his retirement in 1983, died Monday, March 6, 2006, of Parkinson's disease and pneumonia in Santa Fe, N.M. He was 89.

Wahl was famous for proving the existence of a radioactive isotope, element 94 on the periodic table, that had been postulated but never isolated. He discovered what would come to be called plutonium as a team member of nuclear chemists at the University of California, Berkeley, in 1941.

It became clear to the scientists working on the element that the isotope of plutonium with the mass number 239 was fissionable and could be used to make a weapon.

In early 1943, J. Robert Oppenheimer, the director of the secret project being organized at

Los Alamos, asked Glenn T. Seaborg, who led Wahl's group, to come to "The Hill," with his Berkeley team.

Wahl was a group leader in the Nuclear Chemistry Division from 1943-46. When they arrived, they found that the goal of the scientists at Los Alamos was to use plutonium that was extremely pure, thus reducing the possibility of a spontaneous fission. At Los Alamos, Wahl developed a plutonium purification method that is still in use today.

In 1946, Washington University recruited one of the team members, Joseph Kennedy. Kennedy accepted the offer with the condition that he could bring the Los Alamos nuclear chemistry team with him.

Kennedy took Lindsay Helmholtz, David Lipkin, Herbert Potratz, Wahl and Samuel Weissman.

Kennedy was chair of the Department of Chemistry in Arts & Sciences for the next 10 years until his death from cancer at age 41.

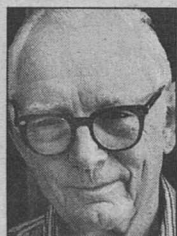
The six scientists were honored at a portrait unveiling at WUSTL in September. Weissman is the only original member of the Los Alamos chemists still living and working at the University.

Wahl earned a bachelor's degree in radiochemistry in 1930 from Iowa State University and a doctorate in 1942 from the University of California, Berkeley.

He is survived by his wife, Mary, and daughter, Nancy Miegel.

A fund has been established in his name for the WUSTL chemistry department. Contributions may be sent to The Arthur Wahl Endowment Fund, Development Services, Washington University, Box 1082, St. Louis, MO 63130.

A memorial gathering is scheduled for 1-3 p.m. May 28 in the Arts & Sciences Laboratory Science Building, Room 250.



Wahl

Trial

Implants are tiny seeds of radioactive iodine
— from Page 1

that limiting the amount of lung tissue removed to a small section can increase the possibility of cancer recurring near its original site. To overcome this potential drawback, a few recent studies have examined the use of either external-beam or implanted radiation therapy to reduce local recurrence and have seen some success.

"There are encouraging studies that have analyzed retrospective data and shown an advantage to including radiation therapy after removal of part of a lobe, but it's difficult to avoid statistical bias with a retrospective approach," Meyers said. "Our study is designed to eliminate bias in the selection of patients to see if a randomized approach can confirm earlier results."

The trial will use radioactive implants, or brachytherapy, instead of external-beam radiation

to irradiate the area surrounding the tumor site in randomly selected patients to determine whether brachytherapy decreases the rate of cancer recurrence.

"The implants are tiny seeds of radioactive iodine embedded in surgical thread, which we place along the cut and stapled edges of the lung," Meyers said.

"By placing this radioactive source at the site of the resection, we are able to effectively increase the radiation dose in the area where the tumor is most likely to recur."

Brachytherapy also has the advantage of avoiding the "innocent bystander" effect associated with external-beam radiation, which can cause damage to surrounding tissue potentially leading to lung dysfunction.

In addition, external-beam radiation must be given in 20-30 small daily doses, and it can be difficult for patients to maintain this schedule. Brachytherapy placed in the lung at the time of surgery eliminates these problems.

Most patients in this clinical study will be enrolled by their physicians, but more information about the trial can be obtained by calling 362-8598.

Washington People

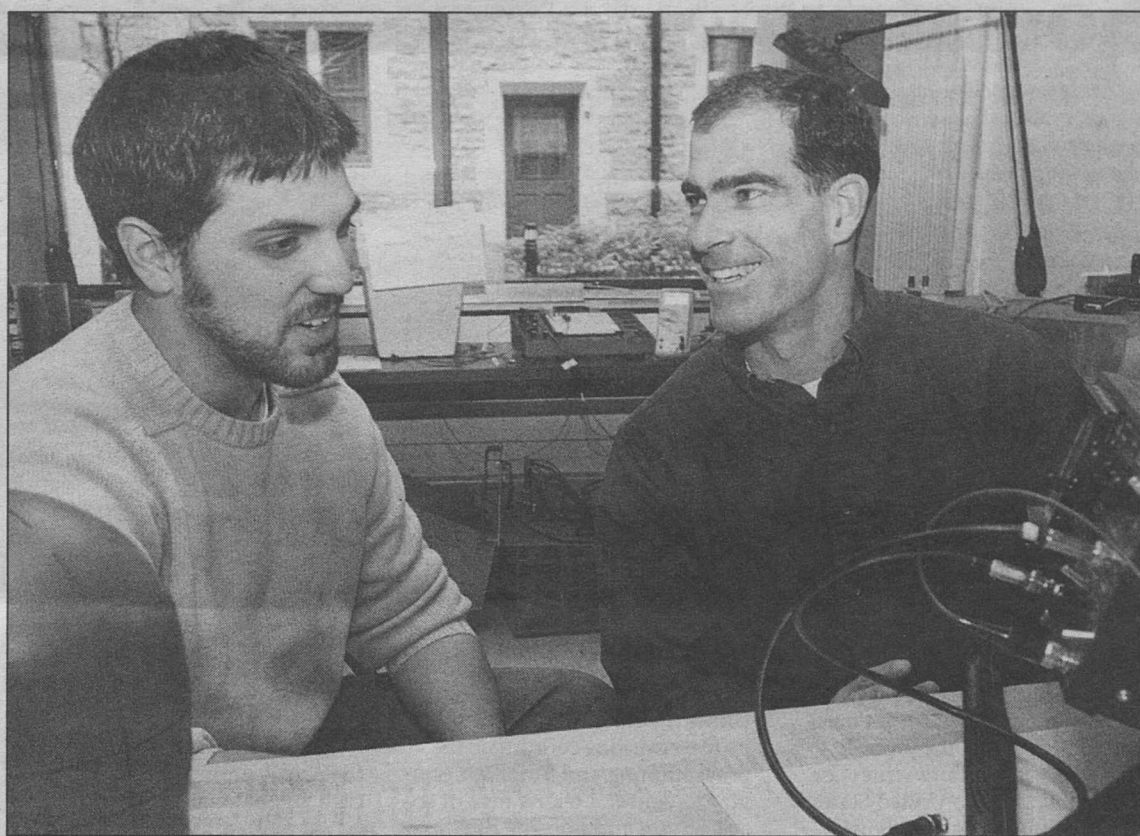
Several times a day, engineering Professor Philip V. Bayly, Ph.D., the Lilyan and E. Lisle Hughes Professor in Engineering, carefully secures the chinstrap on his gray bike helmet and swings onto his black Raleigh M20 bicycle.

He's very much a man in a helmet, wearing it about four times each weekday.

He's not obsessed with his personal head safety; he just understands the dynamics of head injuries more than almost everyone else on the planet.

Grants from the National Institutes of Health and the McDonnell Center for Higher Brain Function are helping him and his collaborators use costly magnetic resonance imaging (MRI) to examine brain deformation and function.

Teammates are from the School of Engineering & Applied Science



Engineering master's student Stefan Atay (left) and Philip V. Bayly, Ph.D., discuss head trauma in Bayly's office. "(Bayly is) just a wonderful collaborator, so easy-going and always so appreciative of whatever we do for him or his graduate students," says Debra Brouk, coordinator of the School of Medicine's Biomedical Magnetic Resonance Imaging Lab.

BY PATRICIA RICE

Practicing what he preaches

Philip V. Bayly is well aware of the debilitating nature of head injuries and prepares appropriately

and the School of Medicine.

In all but the worst weather, with helmet tightly in place, Bayly rides from his Clayton home to his office in Jolley Hall, and then later cycles from Jolley to the medical school's Biomedical Magnetic Resonance Imaging Lab.

On Friday nights, he plays soccer with the "Jammin' Joes" and Monday nights with "The Orange Team." Bayly generally avoids "headers" — hitting the ball with his head.

On Sunday nights his wife, Rebecca Rugen, M.D., an internist, plays on a women's soccer team. Together the couple, both former college varsity athletes, cheers their two children at pre-teen soccer games.

At games and at cocktail parties, friends often ask about his brain-dynamics study findings. When others see stars after a head impact, he talks about MRIs that show deformation inside the brain after impact. Nearly always he hands out the same caution.

"After someone has had one concussion, they need to be especially careful," he says.

His research has made him a more cautious, but no less avid of an athlete. When he and other parents coach his two children's soccer teams, they discourage the young players from doing frequent headers and are cautious about handling falls and collisions.

His brain-dynamics team has observed how human brains respond to voluntary skull accelera-

tion. Volunteers — almost always their subject is a member of the research team — experience about 1/10 the force of an adult player hitting a soccer ball with his or her head.

This research has uncovered explanations of unexpected brain-injury patterns. The front of the brain, even when the blow is to the rear, can be particularly deformed, as the brain pulls away from the skull, he says.

Bayly is awed by the MRI's sensitivity, which can provide an image of the brain's motion as shear waves at musical frequencies travel through it. The study is not finished, but the former Dartmouth College varsity lacrosse player knows enough to try to steer his children, Zachary, 9, and Alison, 12, from unnecessarily putting their noggins in harm's way.

"I hope that my children will never take up football or boxing," he says.

Bayly, 41, a New Hampshire native, is a second-generation professor and scientist. His father, Brian Bayly, taught geology at Rensselaer Polytechnic Institute. His mother curtailed her astronomy work to raise their five children. Phil Bayly is the middle sibling.

After graduating from Phillips Exeter Academy, in Exeter, N.H., he went to Dartmouth College, then earned a master's degree at Brown University and a doctorate from Duke University.

As a young engineer, he worked for the state of Connecticut, for a medical nonprofit and in industry. As a research engineer for the Shriners Hospital, he designed prosthetic and orthotic devices for children.

He came to Washington University in 1993, and holds a joint appointment in the School of Engineering & Applied Science's mechanical and aerospace engineering and biomedical engineering departments.

In his Jolley office, he displays a decade-old highly polished aluminum "sculpture" that any art collector would appreciate. It's a sample of high-speed machining, another of Bayly's research efforts. The extremely lightweight aluminum tube has three channels but it is monolithic — meaning the three sections have no seams and no bolts but were machined, or carved, from one metal block.

The tube is faster and lighter to make than the multiple airplane parts it replaced. He and Boeing engineer Jerry Halley designed it for fighter jets. The high-speed design costs Boeing less to manufacture. Its light weight makes it cheaper to fly.

Most Boeing military jets made after 1997 use their high-speed machining designs.

"When I see one fly, I am pretty sure that Jerry and I have affected how they make that plane," he says.

Another office decoration is a battered cane that hangs from a high book shelf. It's not related to any injury of his. Last year he turned 40, and his colleague, Guy M. Genin, Ph.D., assistant professor of mechanical and aerospace engineering, gave Bayly the old cane as a joke. Bayly laughed and hung it like a trophy.

He encourages his students to laugh at themselves, too. Even though his undergraduate engineering class in dynamics often has 50 students, he uses the Socratic teaching method. He tosses out problems and encourages students to use their knowledge and imagination to solve them. When students are more actively involved in learning, they retain more, he says.

"No one wants to listen to any one talk for 90 minutes," he says.

His methods have earned him respect. Graduate students gave him their "Big Fish" mentoring award in 2001, the same year he got the School of Engineering & Applied Science's Advisor of the Year Award. In 2004, that school named him Professor of the Year.

Bayly is also held in high regard by support staff.

"He's just a wonderful collaborator, so easy-going and always so appreciative of whatever we do for him or his graduate students," says Debra Brouk, coordinator of the School of Medicine's Biomedical Magnetic Resonance Imaging Lab. She called him a brilliant man with the too-rare grace of never failing to say thank you. During Valentine's week, he gave the MRI lab support staff a large box of Bissinger's chocolates.

How did he develop an interest in brain-dynamics research?

"It was nothing dramatic, just talking to doctors who also love sports, ride bikes," Bayly says.

He chatted with the University's medical school emergency-department doctors. He understood dynamics. They saw puzzling brain injuries.

A research team evolved. Gen-

in, Larry Taber, Ph.D., professor of biomedical engineering, Chris Kroenke, Ph.D., assistant professor of radiology and Jeffery J. Neil, Ph.D., the Allen & Josephine B. Green Professor of neurology, began experiments in the medical school's Biomedical Magnetic Resonance Imaging Lab with the support of lab director Joseph Ackerman, Ph.D., the William Greenleaf Eliot Professor and chair of the Department of Chemistry in Arts & Sciences.

Bayly took a sabbatical to study neuroanatomy working mostly with John W. Olney, M.D., the John P. Feighner Professor of Psychiatry and an authority on brain development and the impact of drugs and alcohol on the brain.

"His mentoring has been very valuable," Bayly says.

He believes that the team's MRI brain research could be done in only a few other places in the nation — maybe The Mayo Clinic, Johns Hopkins Medical School and Duke. At some schools with larger engineering schools, such as Massachusetts Institute of Technology, such interdisciplinary teams may be less likely to get the chance to mesh, he says.

As the team's research continues, he believes that the dynamics it finds will help head injuries treatment.

"They'll have more information about what is torn, or stressed and the deformation of the brain," he says. A secondary effect could be improved helmets, he adds.

Bayly values the unique and comfortable lifestyle at the University compared with that of many other engineering schools. He calls his Clayton neighborhood "nearly ideal." Few major universities would provide big-city cultural offerings and still allow him to bike less than a mile along tree-lined side streets to his office.

While his East Coast friends are stuck in commuter traffic, he's playing soccer. He considers it idyllic that both their children walk to their Clayton public grade school.

Bayly is excited that his research team may make discoveries that may forever improve the way brain impact injuries are treated, but his children won't let scientific accomplishment go to his head.

"Sometimes they say they want to be neurosurgeons," he says. "But recently Zach said he prefers to make people happy, so he'd like to run a bar."

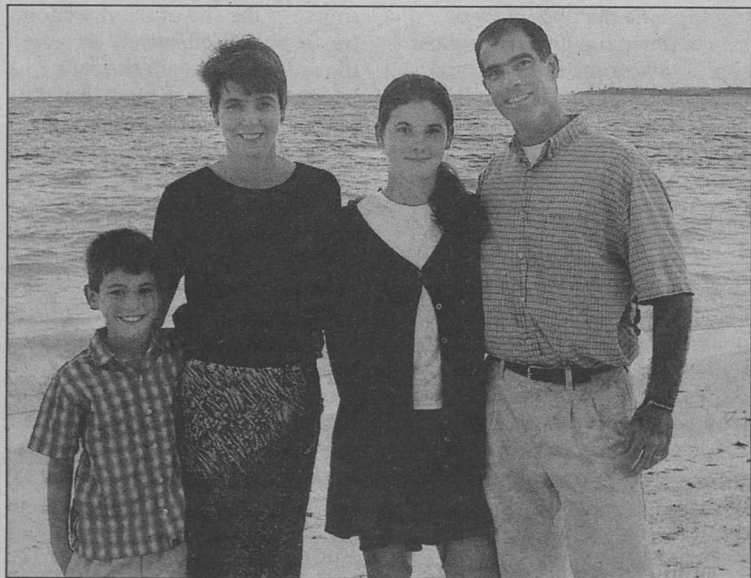
His contagious laugh rippled through his office.

Philip V. Bayly

University positions: Lilyan and E. Lisle Hughes Professor in Engineering; associate professor of mechanical and aerospace engineering

Education: Doctorate in mechanical engineering, Duke University, 1993; master's in engineering, Brown University, 1987; bachelor's in engineering science, Dartmouth College, 1986

Family: Wife, Rebecca Rugen, M.D., daughter, Alison, 12, son, Zachary, 9



Philip Bayly with his family on vacation: (from left) son, Zachary; wife, Rebecca Rugen, M.D.; and daughter, Alison.