Epstein, Schaal elected to American Academy of Arts and Sciences

BY GERRY EYRING
and TONY FITZGERALD

Eve 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.

"They symbolize the creativity and inventiveness that is the cornerstone of any prestigious research university, and we are all proud of their accomplishments and the honour they bring to our academic community," said Melissa G. Wrighton, chancellor.

Epstein and Schaal are among 195 men and women elected this year by the academy, an organization founded in 1817 to promote 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 preeminent 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 1999 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 the award-winning The Supreme Court Compendium: Data, Decisions, and Developments and The Choice Justice Makes. Epstein has served as a member of the board of directors of the American Judicature Society and as a member of the board 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 is a member of the American Political Science Association. See Fellows, Page 6

Washington People: Distinguished University Professor of Political Science in Arts & Sciences and professor of law

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

Stage 1 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 postsurgical complications.

"In this trial, we'll remove half of a lobe or less," said Bryan Meyer, 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, as 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

Students win Udall and Beinecke scholarships

BY TONY FITZGERALD and NEIL SCHUMACHER

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 public service and previous work on the environment. The Udall Scholarship is administered by the Udall Foundation and the Ennen Foundation for Environmental Policy Foundation. The scholarship pays tuition, fees, books and room and board up to a maximum of $35,000 per year.

Udall Scholarships are granted to those individuals who demonstrate a commitment to fields related to the environment, or to Native American Studies. See Scholarships, Page 8

Every detail counts ... It's Thurtene!

BY ANDY CLENDENEN

Washington University in St. Louis

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BY ANDY CLENDENEN

Washington University in St. Louis
Women's Society presents scholarships, leadership award

ANDY CLENDENNEN

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

Regardless of its improved endowment, the society was able to award both full and one partial-tuition scholarships at its annual meeting.

The Women's Society, under the leadership of Elizabeth Gray Danforth as an expression of gratitude and admiration for all that she had done as first lady of Washington University from 1977 to 1993. Her special personal qualifications and total dedication to patient care and continuous improvement upon the University.

Chancellor Emeritus William H. Danforth joined The Women's Society in 2003 to present the full-and partial-tuition Danforth Scholarships. On behalf of The Women's Society, Marcos, who has served in the Spanish and Portuguese language and culture in St. Louis for years to come,” Marcos said.

He wants to focus on aerospace and mechanical engineering at WUSTL. He has served as a tutor and supplemental instructor for an organic chemistry class; a tutor in chemistry, calculus and physics; and president of the Engineering Club.

He is interested in earning a bachelor's degree in chemical or mechanical engineering at WUSTL. The Women's Society 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.

Morrison's interests and activities outside of the classroom include running, basketball, boxing and weightlifting. As a youth coordinator of the Boys' Clubs of St. Louis, he assisted with student functions and officers basketball, baseball, and soccer games for inner-city youth.

What an influence you can exert 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.

“T’ve been working on that in the MARGINS office. This position will allow both of the MARGINS office to grow, in a way that really affects the community. Morris is eager to learn from experts in oceanography, chemical and biological oceanography, marine geology and geosites.

In addition to research in these areas, the division supports research facilities and is committed to funding support for research activities 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 how minerals, particularly subduction zones, where the new lithosphere and oceanic crust created at mid-ocean ridges, along with sedimentary layers and travertine waters are recycled into the deep mantle.

She has done lots of subma-

The concert will honor Wolfgang Amadeus Mozart, on the 250th anniversary of his birth in 1756.

The concert will be held at 7 p.m. in the Edison Theatre.

The program will continue with Mozart's Vesperae Solen- nemes 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 orchestral forces, which recall the symphonic repertoire of the late 19th century.

As the Eastman Director of the Washington University Symphony Orchestra, despite while using liturgical chants from the Reformation era, a collection holding these chants of great importance to the faith. The finale of the work is based on the tune "Jesu, Joy of Man's Desires." The program will conclude with Mozart's Vesperae Solemnes 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 orchestral forces, which recall the symphonic repertoire of the late 19th century. The Eastman Director of the Washington University Symphony Orchestra, despite the challenges of the time, the Eastman continues to bring the music of the composer's era to life, providing a platform for contemporary composers and ensembles.

The concert will feature the Eastman Wind Orchestra, which has performed in major musical festivals and venues across the country and around the world. The ensemble has been recognized for its innovative programming and commitment to bringing classical music to a diverse audience.

The concert will be held at 7 p.m. in the Edison Theatre. The program will include music by a variety of composers, including Bach, Mozart, Beethoven, and contemporary composers. Attendees can expect a dynamic and engaging musical experience that showcases the talent and skill of the Eastman Wind Orchestra and its members. While the program may be challenging for some, the Eastman Wind Orchestra is dedicated to sharing the beauty and artistry of classical music with audiences of all ages and backgrounds.
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 new insight into more common diseases such as emphysema and aortic aneurysms.

Zsolt Urban, Ph.D., assistant professor of genetics in the School of Medicine, and his fellow researchers discovered that a mutated gene, Bibliin-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 the body due to underdeveloped elastic fibers. The research also found that mutations in Bibliin-4 cause cutis laxa in zebrafish embryos.

"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, tivate 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 empphysema and the aortic aneurysms, which could lead to sudden death if they rupture.

The only way to treat the disease is through cosmetic surgery to repair the skin, although those often need to be repeated because of the continued laxness of the skin. Patients require a long 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 such as emphysema and then screen those drugs on the zebrafish," Urban said.

Urban has established an International Center for the Study of Cutis Laxa in St. Louis, Children's Hospital, where a multidisciplinary team from the two institutions can be directed 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.

"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 said. "It's possible that there is an early developmental dysfunction that causes cutis laxa. For this reason, we have established the Gasser and Erlanger Professorships for outstanding research that contributes to the development of therapies that represent a new way to think about diseases."

Semenkovich and Stormo have active programs in both basic and clinical research, reflects BioMed 21's goal of putting insight 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 departments, as well as outside of the university, in other clinical and research settings.

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

John F. McDonnell, Ph.D., professor of genetics, was installed as the Josep Erlanger and Professor and Clay C. Johnson, M.D., assistant professor of pediatrics and director of the Division of Endocrinology, Metabolism and Lipid Research, studies connections between diabetes, obesity, insulin resistance and heart disease.

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**Parental Guidance Suggested**

**Executive Education: Violet**

**Pianist Scetone to Perform music of Bach & Busoni**

Renowned Italian pianist Giuseppe Scetone will present a piano recital featuring the works of Johann Sebastian Bach (1685-1750) and Ferruccio Busoni (1866-1924) at 8 p.m. in Gibson Chapel. The event primarily focuses on the music of the 18th and 20th centuries and frequently incorporates them in concert.

The program is divided into two parts: the first part will be a recital of works by Bach and the second part a recital of Busoni's works. The concert aims to highlight the unique qualities of each composer's music and to showcase the pianist's virtuosity.

**Sam Fox School to present annual fashion design show**

**BY LEAH OTTEN**

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

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

The event will begin with a reception at 7:30 p.m. in the Galleria's Anderson Court, followed by the entrance to Lord & Taylor. A fashion show featuring the work of 31 seniors and alumni will precede the reception. A buffet will be served, and admission is $25 per person.

**F簧rtuation in the 18th and 20th centuries inspired by public events**

The music of the 18th and 20th centuries inspired by public events is really about doing what you want, but they're wrong. Creativity, says Singleton, is "up to this point, students have had a lot of assignments, but the signature collections are different. They have to come up with everything — the inspiration, the designs, the fabrics, the deadlines — and I'm always shocked and amazed at what they've learned. This is when you really get to experience what fashion design is all about."

This year's signature collections will include suits by John Witt; cocktail dresses by Rachel Lwin; lingerie by Natalia Azlan; young men's sportswear by Andrea Forest; and contemporary sportswear by Sarah Ann 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 at what they've learned. This is when you really get to experience what fashion design is all about."

The show will feature a variety of scholars, cash prizes, and awards. The Donnie Michael Silver Award

**Show organizers**

The Fashion Design Show is sponsored by the CFDA, Johnson & Johnson, and Rhone-Poulenc.

**Sponsors**

The sponsors of the show include the CFDA, Johnson & Johnson, and Rhone-Poulenc.

**For more information**

For more information, call the Galleria's Box Office at 314-512-5000.

**University Events**

**Sam Fox School of Design & Visual Arts**

**Annual Fashion Design Show**

May 7 at the Saint Louis Galleria.

**We want people to be entranced and inspired by Americana; dress groups the theme of "Blazers' Edge."**

"The secret to these projects is to come up with everything — the inspiration, the designs, the fabrics, the deadlines — and I'm always shocked and amazed at what they've learned. This is when you really get to experience what fashion design is all about."

"I like the theme of "Blazers' Edge,"" Singleton said. "It's a unique event for St. Louis, and it gives them an opportunity to really stand out. It's more design-oriented than sales-oriented. For a show like this, you need to keep the focus on the designs."

"This makes the show's 12th appearance at the Galleria. For the fourth year, the models' hair will be done by Doneen Bartmani of the Dominican Michael Scotese. Other organizers include Michael O'Keefe of Technical Production and Gretchen Hafferkamp of Game Rentals. The models' makeup will be done by Dolly. Outstanding student designers will receive a variety of scholarships, cash prizes, and awards. The Donnie Michael Silver Award

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**For more information**

For more information, call the Galleria's Box Office at 314-512-5000.
By Neil Schoenfield

A conference on "Linguistic Profiling and Linguistic Human Rights" will be held on the Washington University Campus this week.

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, 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. Friday, April 29, at Goldfarb Hall, will be 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 an 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 recently renewed and extended until June 2007.

Friday, April 28

4 p.m. Exploring Genes in Human Behaviors Seminar. "Genes and the Brain." Greg Polinsky, Ph.D., assistant professor of psychiatry at Washington University School of Medicine. 231 E. Fullerton, title to be announced. 935-6543.

Saturday, April 29

6:30 a.m.-6 p.m. Program in Audiology and Communication Sciences. "Audiology Orientation." EDI. 935-6543.

News & Events

All news and events are accessible online at calendar.wustl.edu.

Meetings & Conferences

"Coach" Burmeister steps down from Thurtene in grand style

Jim Burmeister, outgoing advisor to Thurtene, dons a jacket from Dan Siebers, Thurtene alumni advisor, during a party honoring Burmeister April 22 in Holmes Lounge.

"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."  

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

Linguistic profiling & human rights conference here

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Researchers from around the United States, including two from WUSTL, will speak. Steven Gunn, J.D., associate professor in the Social Justice Law, will present "The Persistence of Racial Discrimination in Housing: Section 8, Steering and Subprime Lending." Ishyo Olupem, Ph.D., instructor in African & African American Studies, will discuss "Caribbean Perspectives: Linguistic Diversity Among African-Americans."

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**Sports**

**Record**

Washington University in St. Louis

**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 22 in Cleveland, totaling 142.5 and 176.5 points to claim top honors on the day.

The Bears women tallied seven individual titles in the final day of competition, led by sophomores Tricia Friesla, who captured two championships — the 1,500-meter run at 5:05.25 and 5,000-meter run at 17:21.12; Senior Delaina Marlowe won her second UAA title in the shot put, winning the hammer throw.

For the men, senior David Skiba highlighted several outstanding performances, winning both the 110- and 400-meter hurdles titles. Junior Kevin Gade joined Skiba with two individual titles on the day, taking first in the 5,000-meter race at 15:30.46 and 5,000-meter. Senior Karl Zelt (triple jump) and the 4x100 relay squad also placed first.

**Baseball team rallies vs. Illinois Wesleyan**

The No. 28 baseball team (30-5) rallied past Illinois Wesleyan, University, 9, 3, 40, 25 in April 20 in Bloomington, Ill. The Bears broke through with three runs in the top of the ninth, junior Andy Shields then gave WUSTL the lead, the one out in the ninth inning, taking that lead into the seventh.

The Bears placed second in the UAA championship in Atlanta. The Bears opened with a 7-2 win over Concordia on April 21. After a 5-1 loss to top-ranked Illinois Wesleyan April 22. In the semifinals April 22, the Red Devils defeated the Bears 6-0.

**Softball team sweeps Fontbonne, Greenville in 15-0 sweep**

The Bears opened a 5-1 record last week at swept doubleheaders from Greenville and Fontbonne. Junior Lauren Sager went 5 for 7 with three home runs and 13 RBIs to lead the Bears to a doubleheader sweep over Greeneville April 18. She made history in game one, hitting her ninth home run in 10 games, and setting the new program's single season home run mark. Senior Mullen opened the Bears sweep against Webster University April 22 to conclude the week; Sagar went 4 for 7 with three RBIs.

**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 in the UAA championships in Atlanta. The Bears defeated Fontbonne in the week with non-conference victories over Division II University of Chicago and Carthage College.

**Women's tennis takes 3rd at UAs**

The Bears took 3rd at the UAs this season. This season, the Bears won 14-8, 2-1 last weekend to place third in the UAA championship in Atlanta.

**Track and field sweeps UAA championships**

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**Specifically addressed are the retirement savings plan, tuition assistance, rising costs of health insurance, and early retirement benefits.**

WUSTL continues to address the retirement savings plan, tuition assistance, rising costs of health insurance, and early retirement benefits. The University remains committed to environmental responsibility and sustainability, with the goal of conserving energy while providing services to its employees. For the next summer, WUSTL will provide quality, consistent, and reliable services to employees with all-points Metro passes that will allow them free access to all services on both sides of the river in urban and suburban areas.

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

The University has also been made available to employers of the University's contracted companies — a group of workers to whom the University has made a commitment to provide access to high-quality health-care services to all employees at a discount.

**Also in the past year, the University developed a generous wellness program that is well above starting average hourly compensability rates for all workers employed in the institutions on the St. Louis region. The University is working with all health-care proprietors to allow contracted workers access to care.**

In the coming year, the University will provide additional significant benefits to enhance the quality of the workplace for its employees.

A "Benefits Plan for the Future" was recently unveiled, providing a more flexible and comprehensive benefits program for the University. In addition, the University has been working with all health-care proprietors to allow contracted workers access to care.

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Social work to present alumni & state awards

By Jessica Martin

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

The Distinguished Alumni Award recipients will be Alvin L. Schorr, William F. Siedhoff and Bernadette (Berrie) 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 Sinae K. Nisembaum.

Schorr, professor emeritus at Case Western Reserve University's Mandel School of Applied Social Sciences, is one of the pioneer theorists, authors and writers on social policy in the United States. Throughout his long and distinguished career, his focus has remained on the 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, Parents and Policy: A Social Worker's Voice, contains 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 services and housing programs to St. Louis residents. His efforts sit on 11 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 multiracial 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-American community both in Chicago and nationwide, she has received numerous recognitions, including being named to the City of Chicago's Above and Beyond: Women's Hall of Fame. Wong worked at CASL for over 20 years before founding CASL in 1979 and working at the University of California, Berkeley.

"He discovered what would become the isotope of plutonium with which we could make a weapon," said Arthur G. Wahl, Ph.D., the Henry V. Farr Professor of Nuclear Chemistry Division from 1943-46. They arrived, they found that the goal of the scientists at Los Alamos was to use plutonium that was extremely pure, thus reducing the spontaneous fission at the beginning of the operation. Their work led to a plutonium purification method that is still in use today.

In 1946, Washington University recruited one of the team members, Joseph Kennedy. Kennedy told the other scientists the conditions that he could bring the Los Alamos nuclear chemistry team with him.

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 spontaneous fission at the beginning of the operation. Their work led to a plutonium purification method that is still in use today.

The six scientists were honored at a portrait unveiling at WUSTL in September. Weissman is the only original member of the WUSTL team.

"Weissman was famous for the work that they did," said Beata Kiss, the director of the U.S. National Nuclear Security Administration's Los Alamos, New Mexico, office. "He discovered the possibility of a spontaneous fission. At that time, it was the only original member of the WUSTL team. We are able to effectively increase the possibility of cancer recurrence.

"Igor Konfisakhar, Ben Robinson and Nathaniel Watson placed in the top 10 in 18 of 30 mathematics contest involving 11 top-five performances. The Putnam competition is held March 30-31, 2006, in Columbia. A total of 89 students from WUSTL placed in the top 10.

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Practicing what he preaches

Philip V. Bayly

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

Education: Doctorate in mechanical engineering, Duke University, 1983; master's in engineering, Brown University, 1987; bachelor's in engineering science, Dartmouth College, 1986

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

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 show 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 Allison, 12, from unnecessarily putting their noggin's 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 Dartmouth College, and his mother, Phil Bayly, also a scientist. His maternal grandfather was the first of his family to graduate college and later became a headmaster in the Boston area.

After graduating from Phillips Exeter Academy, 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 1995, 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 jet collector would appreciate. It's a sample of high-speed machining, another of Bayly's research efforts. The extremely lightweight aluminum has flared channels and no monotonic — meaning the three sides have no seams and no bolts were machined, or caved, 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 saves Boeing less to manufacture, its light weight makes it cheaper to fly.

Most Boeing military jets made after 1997 use their high-speed machining design. "When I see one of them, I'm pretty sure that Jerry and I have advanced the making of that plane," he says.

"Another office decoration is a battered can 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 can 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 Scientific method. He stresses problem solving, and encourages students to use their knowledge and imagination to solve the problem. When students are more actively involved in learning, they retain more. "No one wants to listen to any talk for 90 minutes," he says.

His methods have earned him respect. Graduate students give him their "Big Fish" mentoring award in 2004, the same year he got the School of Engineering & Applied Science's Adviser 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 scholar, so easy-going and always so rambunctious. They would provide big-city culture 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 a hobby, but concedes that both their kids often walk to their Clayton public grade school.

Bayly is excited that his research team may make discoveries that may forever improve the way brain-injury patients are treated, but his children won't even notice the accomplishment go to his head. "Sometimes they say they want to be neurosurgeons," he says. "But honestly Zach said he prefers to make people happy, so he'd like to work on curing the common cold." His contagious laugh rippled through his office.