The Brookings Institution and Washington University will begin offering joint programs, including internships, lectures and other educational activities, the institutions announced April 21.

The three are among 210 scholars in their respective fields, and this recognition is richly deserved. The diversity of their individual accomplishments indicates the good fortune we have enjoyed in strengthening our academic reputation as one of the premier universities in America.

The academy's membership of more than 6,600 includes more than 250 Nobel laureates and 40 Pulitzer Prize winners. See Fellows, Page 6

New pump effectively backs up failing hearts

BY GLENN ERIKSON

Patients with severe heart failure can be bridged to eventual transplant by a new, lighter implantable heart pump, according to a new study of the device.

Results of this third-generation heart assist device were reported at the annual meeting of the American College of Cardiology March 30.

The device, called a left ventricular assist device (LVAD), is the latest generation of heart assist devices. The LVAD was tested at five main sites: the School of Medicine in Minnesota, Mount Sinai School of Medicine in New York, Medical University of South Carolina and the University of Pittsburgh.

"LVADs have allowed us to support patients until they can receive a heart transplant, so they are called a bridge to transplant," said Gregory Ewald, M.D., associate professor of medicine at the University of Minnesota and medical director of Heart Failure, Cardiac Transplantation and Mechanical Circulatory Support.

An LVAD is implanted inside the chest cavity near the heart and is connected to the heart's left ventricle (pumping chamber). It assists the heart's output or supports a damaged ventricle in pumping blood through the body. By restoring a normal blood flow, the device improves patients' health.

Because it is powered by portable... See Pump, Page 7

Three elected to American Academy of Arts and Sciences

Three WUSTL professors have been elected fellows of the American Academy of Arts and Sciences. The new fellows are Ursula Goodenough, Ph.D., professor of biology in Arts & Sciences; James V. Wertsch, Ph.D., professor of government and director of the Center for Arthritis and Related Disorders; and Benjamin Edwards, Ph.D., professor of sociology.

The academy, which includes 210 American men and women elected as fellows by the academy, an organization formed in 1876 to cultivate the arts and sciences and to recognize leadership in scholarship, business, the arts and public affairs. "It is a tremendous honor to have three outstanding Washington University faculty recognized by the American Academy of Arts and Sciences," said Chancellor Mark S. Wrighton. "Professors Goodenough, Wertsch and Yokoyama all are distinguished scholars in their respective fields, and this recognition is richly deserved. The diversity of... their individual accomplishments indicates the good fortune we have enjoyed in strengthening our academic reputation as one of the premier universities in America."

The academy's membership of more than 6,600 includes more than 250 Nobel laureates and 40 Pulitzer Prize winners. See Fellows, Page 6

Chancellor to deliver 'State of the University' address

"Our current challenges are great, but we also have significant opportunities"... See Address, Page 2

Benjamin Edwards, trustee, dies at 77

As the Record went to press, we learned of the passing of Benjamin Edwards III, trustee emeritus and former CEO of J.C. Edwards Inc., April 25 from prostate cancer. He was 77. An upcoming Record will include Edwards' obituary.
Deans of individual schools also will hold similar forums to communicate with school faculty and staff about school-specific issues. Following the presentation of an e-mail sent to the Washington University community on April 14 outlining the specific issues.

"We have to manage the present with an eye to the future, employing tactics to deal with our current challenges that do not compromise our ability to thrive later."  
MARK S. WRIGHTON
Heartburn medications do no cause asthma symptoms

By Gwenn Erickson

The predominance of heartburn among asthma sufferers led many specialists to suspect that acid reflux could be a trigger for the coughing, wheezing and breathlessness of asthma. In fact, it has become standard practice to prescribe heartburn medication to people with poorly controlled asthma. Even if they don’t have overt acid reflux symptoms.

But a new study of adults with inadequate asthma control without significant heartburn shows that heartburn medication does not help control their asthma symptoms. The study, conducted by the American Lung Association’s Asthma Clinical Research Centers at 20 U.S. sites, demonstrated that participants who took esomeprazole (Nexium) had as many asthma exacerbations as patients who got a placebo.
By Liam Otten

Three WUSTL ensembles will join forces at 3 p.m. Sunday, April 26, in the 2009 Chancellor’s Concert. The performance, which is free and open to the public, is sponsored by the Department of Music in Arts & Sciences and is part of the 500 Music Center’s E. Desmond Lee Concert Series.

The program will open with the Washington University Jazz Band, making its first appearance in a Chancellor’s Concert. Directed by Chris Beckman, the ensemble will perform a selection of big band scores. The program then will continue with the Washington University Symphony Orchestra. Directed by Dan Pangrazio, the orchestra and instrumental music coordinator, the 70-plus-member orchestra will perform the overture to Leonard Bernstein’s opera “Candide” followed by Robert Schumann’s “Piano Concerto in A Minor.” Symphony Fella Fern will serve as soloist.

The orchestra will then be joined by the 60-plus-member Washington University Concert Choir, under the direction of John Stewart, director of vocal activities, for a selection of popular opera classics. They will include the “Coronation Scene” from Richard Wagner’s “Tosca” followed by the “Trost Scene” from Henry Purcell’s “King Arthur.” Rounding out the set will be two favorites by Giuseppe Verdi: “Vesti la Giara” from “Nabucco” and the “Ariadne Chorus” from “Il Turco in Italia.”

To conclude the program, all three ensembles will stand together for the finale, Pyotr Ilyich Tchaikovsky’s spectacular “1812 Overture.” For more information, call 935-3566 or e-mail kouelah@arts.wustl.edu.

By Liam Otten

Disney executive Fedor to speak

WUSTL alumus Dexter Fedor will examine “The Creative Life of a Walt Disney Executive From the Inside Out” during a talk at the Sam Fox School of Design & Visual Arts on April 24 at 8 p.m. in Seibel Hall.

Fedor is senior vice president of strategic marketing for the Walt Disney Company, where he manages brand and acquisition issues. He produces media submissions for Walt Disney Pictures and Touchstone Pictures. The talk will explore his creative advertising work as well as his work for the company and its culture. Other topics will include advice on entering the advertising industry, how to make connections and how to stand out in the hiring process. A Q&A with the audience will immediately follow.

Fedor earned bachelor’s degrees from both the School of Art and the Olins Business School in 1979. He spent 18 years in the advertising industry working on major campaigns for Lego’s 500 jeans, Bank of America, PacifiCorp and others. He created the California “Dancin’ Raisins” commercials, which won a Silver Lion at the Cannes Film Festival and recently was named one of the “100 Greatest TV Spots of All Time.” In 1998, Fedor received six Gold Lions from the Cannes Film Festival and more than 200 additional honors, merits and certificates for his creative work. The talk is free and open to the WUSTL community. For more information visit kamperpresentes.wustl.edu.
Symposium to highlight undergraduate research

By Neil Schoenbrenner

The spring Undergraduate Research Symposium will be held from 10 a.m.-2 p.m. Saturday, April 25, in the Laboratories Building. "Excited to offer more than 140 student presentations, the symposium allows undergraduates to showcase their research projects through posters and visual presentations," the event is free and open to the public.

"The symposium provides a means for our undergraduate students to present their research projects to a wide audience," said Professor Bing Bigs, dean in Arts & Sciences and director of the annual Undergraduate Research Symposium. "We have some truly outstanding students at the University, and the research they are doing, even as undergraduates, is fantastic," Bigs said.

Students from Arts & Sciences, the Sam Fox School of Design & Visual Arts, Olin Business School and the School of Engineering & Applied Science will present their work.

Professor Jackie Puklick, PhD, professor of biology at the University of North Carolina, will deliver a keynote address outlining the graduate student and postdoctoral fellow mentoring program she started at North Carolina.

The School of Engineering & Applied Sciences' motorsports program, WUSAC, will show off a Formula SAE race car that students have built and are planning to refit in order to allow it to run on ethanol.

Other presentations will include several projects of the Science and Engineering Research Symposium. "With the global economy in flux, there is a need for our undergraduate students to get involved in research early on in their academic careers," said Simon Hall, Rm. 112. For more information, visit wustl.edu/sos.

Swimmer Alex Beyer is happy to oblige a fan with his autograph, as we were members of the men's basketball team assembled April 15 in the Field House to celebrate their respective national championships. Beyer, a junior, won the NCAA Division III national championship in the 60-meter butterfly event March 19. In the men's basketball team's second straight NCAA Division III national title March 21. The Celebration of Champions drew about 750 WUSTL sports fans, who picked up posters, T-shirts and pizza at the celebration.

March 21, 2009
Thank you, and you! Linda Pike, Ph.D. (right), associate professor of biochemistry and molecular biophysics, and her husband, J. Evan Sadler, M.D., Ph.D., professor of medicine and of biophysics, are molecular/cell biologist who has been welcomed during an Oct. 10 induction ceremony at the academy's headquarters in Cambridge, Mass.

Goodenough was an 18-year-old sophomore English and French literature major at Barnard College in 1961 and then switched majors and completed 120 hours, including advanced math, physics and chemistry for which she had no background, in just three years. She graduated with a bachelor's degree cum laude in zoology in 1964.

She enrolled in the master's program in zoology at Columbia University. By 1965, she was a doctoral candidate in biology at Harvard University and completed her coursework and dissertation in 1969 and then was promoted to professor in 1982.

In 1971, she was a fellow at the Scandinavian Advanced Studies in the Social Sciences in Uppsala, Sweden, and, in spray 2003, he held the Men of Science Chair in Molecular Biology at the University of Washington in Seattle.

Among Wertsch's research interests are language, thought and culture, particularly the relationship between history and national identity. His most recent work analyzes the transformation that collective memory has undergone during the transition from Soviet to post-Soviet Russia.

He has received several fellowships to study in Russia and co-authored a book titled, “Official and Unofficial Histories: The Case of Estonia” that was published in the Journal of Narrative and Life History. Along with more than 150 additional articles, chapters and reviews, his publications include “Vygotsky, the Social Formation of Mind, and the Sociocultural Approach to Motivated Action,” “Mind and Action,” and “Voices of Collective Remembering.”

Since joining the WUSTL faculty, Wertsch has played a major role in developing several areas of research and teaching in Arts, including the International & Area Studies Program and the Arts & Sciences Interdisciplinary Initiative, which aims to foster interdisciplinary teaching and research across the humanities, social sciences and natural sciences.

Wertsch earned a bachelor's degree in philosophy from the University of Illinois at Urbana-Champaign in 1970 and a master's in education from Northwestern University in 1971; and a doctorate in educational psychology from the University of Chicago in 1975.

Yokoyama is internationally recognized for his research into an important component of the immune system that protects against viruses and tumors.

Yokoyama’s studies have helped show how various mechanisms license, restrain and unpause natural killer (NK) cells. His lab was the first to provide the molecular basis for a theory known as the “missing self” hypothesis.

Prior to the discovery of NK cells, scientists had conceptualized the immune system for recognizing invaders as comparable to that of police using an all-points bulletin: An alert went out that a particular invader had been seen, and then immune system cells searched for and attacked that invader when they found one. NK cells opened up a new possibility more comparable to the job of a border guard. Scientists suspected NK cells were checking if an organism was still alive, that something they encountered in 1% of the population wasn't forthcoming. In 1992, Yokoyama's lab was the first to identify such natural cells on the surface of NK cells that enabled this process.

The receptor inhibits NK cell function when it recognizes the appropriate cytokines, which in this case are most likely hematopoietic growth factors.

Sustainability efforts by helping to redistribute unused food

Green' eating options help, too

By Jessica Daves

Every Monday, Wednesday and Thursday of the school year student group Feed St. Louis meets at Center Quad on the South 40 to load leftover food into a car and deliver it to a shelter. Every Wednesday and Friday, leftover food at School of Medicine eateries is collected and distributed to shelters and shut-ins.

When unused food is one way WUSTL tries to "reach out" to the St. Louis community, said Matt Malten, assistant vice chancellor for sustainability.

"Large amounts of energy and associated greenhouse gas emissions are required to produce, transport, store and refrigerate food. Reuse ensures that resources are not wasted and ensures that food continues to nourish people, not landfill," he said.

In 2005, Fresh St. Louis was originally created in 2006, and Underwood said, "Sustainable eating" was initially "big buzzword back then, but was a big part of the motivation."

The current incarnation of Feed St. Louis, formed when two student groups, Feed St. Louis and STONE Soup, merged in 2007. It collects leftover food — about 975 meals a month, according to Underwood — from Center Court, the Village and the Bear’s Den on the Danforth Campus, the Fanney and Underwood said, "Sustainable eating" was initially "big buzzword back then, but was a big part of the motivation."

Feed St. Louis plans to work with WUSTL Dining Services to expand and develop other food from other dining halls across the Danforth Campus, Underwood said.

Leftover food at the School of Medicine is donated to an organization called Campus Kitchen, said Rosemary Girouard, food service director at the medical school. The Saint Louis University School of Medicine’s Campus Kitchen, a national organization, makes twice-weekly pickups at the medical campus to shut-ins and shelters in the St. Louis area.

Yokoyama, who also is director of the Medical Scientist Training Program at Washington University in St. Louis, is internationally recognized for his research into an important component of the immune system that protects against viruses and tumors.

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The receptor inhibits NK cell function when it recognizes the appropriate cytokines, which in this case are most likely hematopoietic growth factors.
Two doctoral students inducted into Bouchet Honor Society

The George Warren Brown School of Social Work will honor five distinguished individuals for outstanding service to their profession during its annual Alumni Awards celebration on April 24, in Whitaker Hall Auditorium, at Washington University.

Nair also is a leading scholar studying problem gambling in Singapore. Among her many honors, Nair has been named "Outstanding Young Woman of the Year" in her country. She is a member of the Centre for Social Development, Asia — the sister to Brown School's Center for Social Development.

**Distinguished Alumni Awards**

**Rita Montgomery Hollie** (B.A. ’94, MSW, J.D. ’73)

Learning that there is no effective way to be a change agent for the poor, Hollie applied to the Brown School and enrolled as the first student in the school's MSW/JD dual-degree program.

Hollie has been serving the Missouri attorney general's office, where she applied consumer protection legislation to the problem of lead-based paint. She also helped with the adoption agency Friends of African American Families and Children Service Center.

**Barth A. Holohan III** (M.S.W. ’91)

Holohan is committed to ensuring a greater quality of life for older adults. In addition to being the co-founder and co-owner of Family Planning Day Services, Holohan is the founder and president of St. Louis-based Continuum, a company that provides private duty home care, nursing, retirement community programs, personal emergency medical response systems and geriatric care.

**Sudha Nair, Ph.D. (MSW ’91)**

Nair has provided leadership in creating, testing and implementing answers to Singapore's community-based social services and public policies.

She has been addressing the problem of domestic violence, serving as the founding director of Centre for Promoting Alternatives to Violence to the prayer's organization focused on domestic violence.

**Partnership**

"We share a common benefactor" — from Page 1

Brown School to present faculty, alumni, students awards

T he two doctoral students inducted into the Bouchet Honor Society this year, Sulayman Magassa and Andrea Shedd, have been honored for their academic contributions.

Magassa, a medical student in the Molecular Microbial and Microbial Process Program in the Division of Biology and Biochemical Sciences, and Shedd, a doctoral student in the Clinical Psychology Program in the Department of Psychology in Arts & Sciences, have been honored for their contributions.

The Bouchet Society recognizes outstanding students from underrepresented groups who demonstrate excellence and leadership in their fields.

In her dissertation, Magassa is studying the mechanisms of a bacterial toxin that causes inflammation.

Shedd is conducting research on the impact of childhood stress on the development of the brain.

Magassa plans to work in the newly created position of assistant professor in the department of psychology.

Shedd plans to attend graduate school in clinical psychology.

**Pump**

A third-generation heart assist device from Page 1

A third-generation heart assist device for patients with heart failure that is better than that of first-generation devices has been developed.

The number and type of adverse events reported during the trial was 131 days. Adverse effects included atrial fibrillation (AF), which affects the implementation of lifestyle change for their overall effect on blood pressure control.

Shedd has been involved in outreach and service throughout her life. She is a member of Alpha Kappa Alpha Sorority Inc., an organization dedicated to service, she has participated in the Susan G. Komen Race for the Cure with her family.

Shedd recently completed a study of children's contact with the military and the impact of deployment on their mental health.

Magassa has received a B.S. degree in biochemistry from the University of Missouri-Columbia and a B.S. degree in psychology from the University of Missouri-St. Louis in 2003 and a master's degree in psychology from WUSTL in 2006.

Magassa is also a member of the Missouri State University chapter of the American Psychological Association.

Shedd is a member of the American Psychological Association and the Society for Research in Child Development.

**Violence and Injury**

The WUSTL Bouchet Society Selection Committee chose the third class of Bouchet Fellows following this summer's selections of Richard J. Smith, Ph.D., dean of the School of Arts & Sciences and the Ralph E. Morrow Distinguished University Professor; Notaro; and Shelly, a professor of psychology at Yale.

Notaro said their specialization at the Bouchet Society is in the areas of race, gender and health care policies.

"By six months, 84 percent of patients were in better shape, making them better candidates for heart transplants," Ewald said.

The WUSTL doctors are continuing their research on heart assist devices, which are being used to treat patients with heart failure.

"But by six months, 84 percent of patients were in better shape, making them better candidates for heart transplants," Ewald said.

The clinical study mean the VentrAssist has been approved by the United States Food and Drug Administration.

"We share a common benefactor" — from Page 1

"We share a common benefactor" — from Page 1

**Pump**

A third-generation heart assist device from Page 1

battery packs, patients usually go home while they wait for a heart transplant.

The 2009 Fellows are N'Goundo Talbott and his colleagues at the Brookings Institution have published several reports on the role of federal policy studies and academic activities in addressing national challenges.

"Clearly, Washington University's faculty and students and the distinguished scholars at the Brown School [will have] many opportunities to collaborate, both in Washington, D.C. and in St. Louis," Wrightson said.

"I am extremely pleased that we will be pursuing areas of mutual interest to Brookings and Washington University," said Strobe Talbott, president of the Brookings Institution.

"We have a common benefactor," Talbott said. "We have a common benefactor."
Making connections

Chase makes Tyson Research Center a regional hub

Jonathan M. Chase

By Tony Fitzpatrick

Chase says. "We try to understand what the processes are that create variation in Missouri, we're right in the middle of an ecological zone where prairies, forests, savannahs, streams, natural wetlands and ponds come together." Early on at WUSTL, Chase's "middle-ground" approach gained attention. In 2003, Chase and Knight, then a postdoctoral researcher, were studying mosquito larvae, dry during drought years, drastically reducing mosquito predators — from fish to water beetles — and other competing species such as snails, tadpoles and zooplankton.

The collaboration with Shaw and the Missouri Botanical Garden impressed the National Science Foundation so much that it granted this community of researchers $1.8 million to develop a high-school summer internship program. In its first round, which began last summer, 50 young faces went to Shaw to learn basic skills and research techniques in the part of the program called SHIFT (Shaw Institute for Field Training). This summer, 20 of those same students will ply their newfound skills on research projects with WUSTL faculty and graduate students as part of the Tyson's ecological Research Fellowship. "We think the grant illustrates that our programs at Tyson and in environmental studies are busting out of the lab," Chase says.

Chase estimates that the use of Tyson for research and teaching has increased significantly since 2002. Tyson and Tyson's faculty members have actively engaged university students in research projects at the site that cut across disciplines. Research at Tyson also has become one of the thrusts of the International Center for Advanced Renewable Energy and Sustainability (I-CARES). I-CARES nurtures collaborations within WUSTL and with regional and international partners in order to contribute to rapid progress in addressing the world's economic and environmental crisis.

A good scientist

For a man who loves nature and enjoys the science of ecology, Chase's background is ironic. He grew up in Motown and in Southfield, a suburb of Detroit. He had a curiosity about animals and plants from an early age and he found nature all around him. A neighborhood cemetery was a favorite place to tadpoles and crows to play and enjoy the 30-40 active research projects at the site that cut across disciplines. Research at Tyson also has become one of the thrusts of the International Center for Advanced Renewable Energy and Sustainability (I-CARES). I-CARES nurtures collaborations within WUSTL and with regional and international partners in order to contribute to rapid progress in addressing the world's economic and environmental crisis.

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