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Record



Washington University in St. Louis

April 24, 2008

record.wustl.edu



Rally 'round the team The men's basketball team celebrates its 2008 NCAA Division III title with a championship rally April 16. An estimated 900 fans packed the Field House to meet the players and coaches and see the unveiling of the championship banner. Red Alert ordered 100 pizzas, and the University gave away T-shirts and championship posters. Here, sophomore John Wolf (lower left) autographs a poster for women's basketball players Alex Hoover (front, with bandana) and Shanna-Lei Dacanay.

Advance in atrial fibrillation surgery boosts outcomes

BY GWEN ERICSON

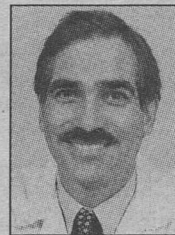
School of Medicine heart surgeons report that by adding a simple 10- to 20-second step to an operative procedure, they achieved a significant improvement in the outcome for the surgical treatment of atrial fibrillation (AF).

Reporting in the April issue of the *Journal of Thoracic and Cardiovascular Surgery*, the surgeons describe an enhancement to the Cox-Maze procedure, a surgical procedure that redirects wayward electrical impulses causing AF by creating precisely placed scars, or ablations, in the heart muscle. The Cox-Maze procedure is highly effective, offering the best long-term cure rate for persistent atrial fibrillation.

The surgeons added one abla-

tion to the series of ablations typically made during the Cox-Maze procedure, and that short step improved how well patients did after surgery. As a result, they recommend using this extra ablation in all patients undergoing the procedure.

"The single additional ablation creates what we call a box lesion," said Ralph J. Damiano Jr., M.D., the John M. Shoenberg Professor of Surgery and chief of cardiac surgery. "The box lesion surrounds and electrically isolates the pulmonary veins and the posterior left atrial wall from the rest of the left atrium."



Damiano

Our study shows excellent success when using the box lesion, and we recommend it for any patient with long-standing atrial fibrillation."

See **Surgery**, Page 6

RecycleMania a success

WUSTL places 21st of 200 schools in contest

BY JESSICA DAUES

Washington University recycled 489,759 pounds of waste this spring to rank No. 21 out of 200 schools in the annual RecycleMania contest's Gorilla category, which is based on total recycled materials collected. The 2008 RecycleMania competition began Jan. 27 and ended April 5. WUSTL's 489,759 total pounds was good enough to rank No. 1 in the state of Missouri and No. 9 among private colleges and universities nationwide. It also tops the 486,614 pounds the University recycled during last year's competition.

"We're very pleased with the progress Washington University made this year," said Matt Malten, assistant vice chancellor for campus sustainability.

"This shows that, together, our campus community can have a tremendous impact on reducing the amount of waste we send to landfills. We hope that we can continue to improve on these efforts throughout the year and further minimize the amount of waste we generate," Malten said.

The University also excelled in the Targeted Material — Paper category, finishing No. 30

See **RecycleMania**, Page 6

Early-morning tremor gives wake-up call

Plans already were in place for improved emergency communication

Last week's 5.2 magnitude earthquake in Southern Illinois and its continuing minor aftershocks have had a rattling effect on students, faculty and staff and were yet another reminder of the importance of emergency preparedness and communication.

A WUText Alert was not sent to those registered for the text messaging notifications as this earthquake did not result in a significant disruption to the University community.

Over the past year, several University-wide committees have been meeting to implement and improve preparedness and communications strategies for the entire University community. Although these

plans are not yet complete, several key programs have been put into place, and more will be announced in the coming months as part of an overall emergency communications program called "Where to Go."

In the event of an emergency, including situations related to natural disasters, health epidemics, fire, hazardous materials, severe weather or violence, the University has developed an emergency Web site: emergency.wustl.edu.

In addition to updates on a current emergency situation, the site includes key contact information and information on how to prepare for many kinds

See **Emergency**, Page 6

"I hope the community will take this earthquake as a reminder to be prepared for all types of emergencies."

MARK BAGBY

Khinduka awarded top Eliot Society honor

BY BARBARA REA

At the William Greenleaf Eliot Society banquet April 9, the former dean of the George Warren Brown School of Social Work received the society's "Search" award.

Shanti K. Khinduka, Ph.D., the George Warren Brown Distinguished University Professor, was presented with the society's top honor by Chancellor Mark S. Wrighton at the 41st annual event, held at the Ritz-Carlton, St. Louis. The evening also featured a keynote address by documentary filmmaker Ken Burns.

In a University filled with distinguished leaders, Khinduka stands out. In the 30 years he guided the Brown School, he assembled a first-rate cadre of faculty, built up the school's endowment and doubled its physical facilities. Most important, Khinduka, building upon the Brown School's initial strengths, created a school that is acclaimed internationally for its teaching and research.

"As the new dean, hired in 1974 to lead the Brown School forward, Shanti took a very good school and

guided it to the top rank of social work education," Wrighton said. During this period, Wrighton said, the theory and practice of social work and social development education was evolving, and Khinduka embraced the changes and reforms necessary to advance the school and keep it on the cutting edge.

"He has been an inspirational leader not only at the George Warren Brown School of Social Work but also at Washington University, in the St. Louis region and in the national and international spheres of social work and social development," Wrighton said.

An expert on community and social development and on international social welfare, Khinduka has published widely and has been honored for his achievements and contributions to his field. He founded the *Journal of Social Service Research* in 1977; he founded the Inter-University Consortium for International Social Development and served as its president; and he was a founding co-chair of the Board of Directors of MERS/Goodwill.

Born in Jaipur, India, Khinduka began his career as an assistant professor of sociology and social work

See **Honor**, Page 6



Former dean Shanti K. Khinduka, Ph.D., receives the "Search" award with his wife, Manorama, at his side.

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Bornstein named Stella Koetter Darrow Professor in Catholic Studies

BY BARBARA REA

A leading historian of religion was installed as the first Stella Koetter Darrow Professor in Catholic Studies in Arts & Sciences March 18 in Holmes Lounge.

Daniel M. Bornstein, Ph.D., joined Washington University last fall with a joint appointment in religious studies and history, both in Arts & Sciences. He is a scholar whose broad focus encompasses the relationship between religion and civic culture, the role of religious life in late medieval and Renaissance Italy, the varieties of religious practices and the role of women in the Catholic Church. With these distinguished credentials, he is a good fit for the vision of the late Stella Darrow.

"Stella Darrow envisioned a program that enhanced and broadened the study of Roman Catholic thought and history," Chancellor Mark S. Wrighton said. "As one of her final efforts, she created an endowed professorship that will continue what she strove to do throughout her life: to support the educational mission and enhance the life of

students at her alma mater. She was extremely generous and a loyal supporter of many facets of the University, and for that we are very grateful," Wrighton said.

A native St. Louisan and 1931 alumna of Arts & Sciences, Darrow devoted considerable time, effort and resources to the University. She was a founding member of the Women's Society and the Arts & Sciences Century Club, groups that support a variety of initiatives

individuals who helped raise funding to support and later strengthen the Newman Center, also known as the Catholic Student Center.

"Daniel Bornstein's teaching, research and scholarship are deeply respected, and they add a significant dimension to religious studies and history at Washington University," said Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences. "I am confident Mrs. Darrow would be delighted with Daniel Bornstein as the inaugural holder of the Stella Koetter Darrow

"Daniel Bornstein's teaching, research and scholarship are deeply respected, and they add a significant dimension to religious studies and history at Washington University."

EDWARD S. MACIAS

that would not otherwise be funded. A former librarian, Darrow was dedicated to the advancement of the University Libraries and was a founding member of its national council.

Throughout her long alliance with the University, Darrow made many contributions honoring members of her family. The most notable is an endowed scholarship in the School of Medicine for her father, Albert F. Koetter, who served as chief of the oncology clinic from 1916-1920. In addition, she was among a group of

Professorship."

Bornstein's ability to question the nature of religious life within the context of the traditional Church is a distinct characteristic of his scholarship and matches one of Darrow's reasons for giving this professorship. Bornstein has written extensively on his subjects of expertise, composing books, journal articles, chapters, reviews and conference papers. In addition, he has translated several medieval texts. His current research



Daniel M. Bornstein, Ph.D., and his wife, Jane, examine the medal given to him at his installation as the first Stella Koetter Darrow Professor in Catholic Studies in Arts & Sciences. The ceremony took place March 18 in Holmes Lounge.

involves editing a volume on Medieval Christianity as part of a seven-volume treatise "A People's History of Christianity," which is due out this spring.

He began his career at the University of Michigan and also taught at the University of California, San Diego, before starting a long tenure at Texas A&M University, where he coordinated the Interdisciplinary Program in Religious Studies. Bornstein earned a bachelor's degree from Oberlin College and earned master's and doctoral degrees from the Univer-

sity of Chicago.

His research has been supported by the National Endowment for the Humanities, the American Philosophical Society and the National Humanities Center among others. Professional involvement includes the American Society of Church History, the American Catholic Historical Association and the Society for Italian Historical Studies. He sits on the editorial boards of "Rivista di Storia del Cristianesimo" and "Medievalia et Humanistica."

Naming contest opens for new dining venues

The Office of Student Activities is sponsoring a naming contest for the five dining venues to be located on the main level of the Danforth University Center, scheduled to open for the fall 2008 semester.

Both undergraduate and graduate students, faculty, staff, alumni, parents of current students and friends of the University are eligible to participate.

The dining area will comprise an American grill, an express cafe and Asian, Italian and Latino cuisine.

"We hope everyone will consider fun, Washington U., St. Louis or bear-related names for these areas," said Julie Thornton, director of student activities. "It's exciting to think that these new names will stick and be part

of a longstanding tradition here at WUSTL."

The deadline for submissions is April 28. A committee composed of members in the WUSTL community will make final selections.

The winning names will be announced May 5, and prizes will be awarded.

The Danforth University Center will serve as a gathering place not only for students but also for faculty, staff, alumni, parents and visitors to campus. In addition to the dining areas, the center will house meeting rooms, lounges and offices for student leaders and student services professional staff.

To submit suggestions for naming the dining venues, go to duc.wustl.edu.

Danforth Campus parking changes announced for 2008-09

WUSTL's commitment to increase green space on the Danforth Campus and promote sustainability has prompted the University to reassess its parking offerings for the 2008-09 academic year — adding the Occasional Parking Program and adjusting parking fees.

The new parking program and fee adjustments go into effect July 1.

The University's commitment to green space means that the focus has shifted from surface parking lots to above-ground and below-ground parking structures, which cost more to build and maintain than surface lots.

Each parking spot in an above-ground structure averages \$20,000-\$25,000 to build and maintain. Below-ground parking is more than double that number.

While the University covers a portion of these costs, the remainder must be recovered through parking fees.

WUSTL offers commuting students, faculty and staff several cost-effective alternatives to using a personal vehicle. The University provides each benefits-eligible employee and full-time student with a complimentary U-Pass, which allows the holder unlimited use of Metro buses and MetroLink as an alternative method of transportation to and from campus. This benefit is not part of the parking fee structure and helps keep hundreds of cars off the roads daily, which reduces carbon emissions along with the need for parking. For more information on this benefit, visit parking.wustl.edu/metro.htm.

The University also brought the WeCar program to WUSTL campuses this winter to provide a means of transportation for those who might typically commute via public transportation, bicycle or foot. For more information, visit parking.wustl.edu/wecar.htm.

Among the changes made to the parking program is an increase in price for 2008-09 Red, Yellow, Blue, Brown, North Campus, and Official Business permits. Additional increases are planned for 2009-10 and 2010-11.

The parking advisory committee — made up of faculty, staff and students — recommended significantly reducing permit fees (decreasing from \$93 to \$15) for those who use off-site parking in conjunction with a Metro pass in 2008-09.

"The off-site permit provides another low-cost alternative to parking on campus," said Parking & Transportation Advisory Committee Chair Peter Milne, associate dean for administration at the School of Law. Off-site includes West Campus and North Campus for students or employees who work elsewhere on the Danforth Campus. This incentive will be provided on a first-come, first-served basis with a maximum of 200 permits.

"We hope that faculty, staff and students will consider alter-

Parking prices	
Permit prices for the academic year 2008-09:	
Red	\$960.00
Yellow	\$429.00
Blue	\$429.00
Brown	\$429.00
North Campus	\$228.00
Evening	\$100.00
Off-Site	\$15.00
Student Summer	\$125.00
Official Business	\$420.00
Daily	\$5.00
Monthly	\$100.00

native transportation and off-site parking as a way not only to reduce their carbon footprint but also to reduce parking expenses and personal transportation overhead," said Lisa Underwood, director of WUSTL Parking & Transportation Services.

In addition to the U-Pass and WeCar programs, which encourage the use of alternative transportation rather than single-occupancy vehicles, the University will debut the Occasional Parking Program in 2008-09. This program is designed to provide an occasional, reduced-cost daily parking option for those who normally use an alternate mode (walk, bike, public transit and carpool) for their commute. The Occasional Parking Program will make a set number of discounted daily passes available annually for purchase by individuals enrolled in the program. Parking Services will have membership packets for the Occasional Parking Program available in June.

Future enhancements also are being considered for evening parking on the Danforth Campus, and the planning process for bicycle program additions on the Danforth Campus is nearing completion.

For more information, contact Parking and Transportation Services at 935-5601 or parktrans@wustl.edu.



Thanks, Mr. Sappenfield Lonia Friedlander (left) visits with her former chemistry teacher Terry Sappenfield (center) and Harvey R. Fields, Ph.D., assistant director of academic programs at WUSTL's Cornerstone: The Center for Advanced Learning. Sappenfield, a faculty member at Firestone High School in Akron, Ohio, came to campus to accept the Cornerstone Outstanding Teacher Award. Each year, Cornerstone invites graduating seniors who have served as academic mentors to other students to nominate an elementary or secondary school teacher they believe has significantly contributed to their intellectual and personal development. Friedlander chose Sappenfield. "He taught us all about the beauty of scientific discovery," she said. "He was caring, talented and pushed his students to the best of their abilities." A double major in chemistry and earth and planetary sciences, both in Arts & Sciences, Friedlander plans to pursue an advanced degree in geochemistry.

School of Medicine Update

Alzheimer's plaque buildup reduced by drug

By MICHAEL C. PURDY

The ability of brain cells to take in substances from their surface is essential to the production of a key ingredient in Alzheimer's brain plaques, School of Medicine neuroscientists have learned.

The researchers used a drug to shut down the intake process, known as endocytosis, in a mouse model of Alzheimer's disease. The change led to a 70 percent drop in levels of amyloid beta, the protein fragment that clumps together to form Alzheimer's plaques. Importantly, they also found that the ability of endocytosis to increase amyloid beta was coupled to normal nerve cell communication.

"Blocking endocytosis isn't a viable option for treatment because cells throughout the body, including brain cells, need endocytosis for healthy function," said first author John Cirrito, Ph.D., research instructor in neurology. "But we are starting to understand the origins of amyloid beta in more detail now, and what we're learning is opening other options we can pursue to seek new treatments for Alzheimer's disease."

While endocytosis is necessary for normal function of brain cells, Cirrito and others believe it may accidentally be causing the cells to take in the amyloid precursor protein (APP), which breaks down into amyloid beta. If so, a drug that reduces brain cells' intake of APP may help reduce amyloid beta production.

The results appeared in the April 10 issue of *Neuron*.

Previous research had shown that endocytosis might be important for amyloid beta production and that amyloid beta is produced inside brain cells. In 2005, Cirrito and his colleagues linked

increased communication between brain cells to higher amyloid beta levels.

Cirrito decided to test endocytosis and brain cell activity in a coordinated fashion. He used microdialysis, a technique that he had previously adapted for Alzheimer's research, to monitor the results.

In addition to allowing repeated sampling of the amyloid beta levels in the brains of live mice, the approach allows him to introduce drugs that reduce endocytosis and alter communication between brain cells.

When researchers gave mice the drug that stopped endocytosis, amyloid beta levels dropped by 70 percent.

To see how much normal brain activity contributed to ongoing amyloid beta production in the absence of endocytosis, they then added a second drug that reduced brain cell communication. Amyloid beta levels did not decrease further.

When they reversed the experiment, reducing brain cell communication first, amyloid beta decreased by 60 percent. Adding the drug that stops endocytosis caused an additional small reduction in amyloid beta.

The results show that amyloid beta production requires both brain cell communication and endocytosis, but endocytosis is essential for a slightly larger share of amyloid beta.

Cirrito conducted the research in the laboratories of co-senior authors David M. Holtzman, M.D., the Andrew B. and Gretchen P. Jones Professor and chair of the Department of Neurology at the School of Medicine and neurologist-in-chief at Barnes-Jewish Hospital; and Steven J. Mennerick, Ph.D., associate professor of neurobiology and psychiatry.



Cirrito



Come dancing Youngjee Choi, a second-year medical student, dances with George Jones at the Senior Prom April 12 at the South Campus on Clayton Road. Medical and occupational therapy students in the Geriatrics Outreach Group organized the event, called "Dancing Through the Decades," to facilitate social interactions between the School of Medicine and the older adult community. More than 90 older adults attended the event.

Deadly genetic disease stopped before zebrafish birth

By BETH MILLER

By injecting a customized "genetic patch" into early stage fish embryos, researchers at the School of Medicine were able to correct a genetic mutation so the embryos developed normally.

The research could lead to the prevention of up to one-fifth of birth defects in humans caused by genetic mutations, according to the authors.

Erik C. Madsen, first author and an M.D./Ph.D. student at the School of Medicine, made the groundbreaking discovery using a zebrafish model of Menkes disease, a rare, inherited disorder of copper metabolism caused by a mutation in the human version of the ATP7A gene. Zebrafish are

vertebrates that develop similarly to humans, and their transparency allows researchers to observe embryonic development.

Children who have Menkes disease have seizures, extensive neurodegeneration in the gray matter of the brain, abnormal bone development and kinky, colorless hair. Most children with Menkes die before age 10, and treatment with copper is largely ineffective.

The research was published last month in the *Proceedings of the National Academy of Sciences'* advance online edition.

The development of organs in the fetus is nearly complete at a very early stage. By that time, the mutation causing Menkes disease has already affected brain and nerve development.

Madsen and Bryce Mendelsohn, also an M.D./Ph.D. student at the School of Medicine, wondered if they could prevent the Menkes-like disease in zebrafish by correcting genetic mutations that impair copper metabolism during the brief period in which organs develop. Both students work in the lab of Jonathan D. Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics and director of the Division of Genetics and Genomic Medicine



Madsen

at St. Louis Children's Hospital.

The researchers used zebrafish with two different mutations in the ATP7A gene, resulting in a disease in the fish that has many of the same characteristics of the human Menkes disease. Madsen designed a specific therapy to correct each mutation with morpholinos, synthetic molecules that modify gene expression. The zebrafish embryos were injected with the customized therapy during the critical window of development, and the researchers found that the zebrafish hatched and grew without any discernable defects.

"This method of copper delivery suggests that the prevention of the neurodegenerative features in Menkes disease in children may be possible with therapeutic interventions that correct the genetic defect within a specific developmental window," Madsen said.

The work is an important step toward personalized medicine, which can tailor treatment to an individual's genetic makeup.

"Eventually, we would like to know each person's genome sequence so we know what mutations each person has that may lead to disease," Gitlin said. "That way, you don't get a drug for cancer that works against any kind of cancer, you get a drug for the specific mutation that causes your cancer. That's what personalized medicine is all about."

Drug prevents abnormalities that lead to seizures

By MICHAEL C. PURDY

Current medications for seizures are comparable to over-the-counter cold and flu remedies: They block symptoms but don't significantly affect the underlying illnesses that cause them.

Now School of Medicine scientists have taken the first step toward developing another option. They've used a drug to prevent the brain abnormalities that lead to seizures in mice with an inherited form of epilepsy.

Working in a mouse model of tuberous sclerosis (TS), an inherited human condition that causes seizures, researchers showed that regular doses of the drug rapamycin prevented the mice from seizing. The treatment also blocked the development of structural abnormalities in the brain and extended lifespan. The report appeared recently in the early online edition of the *Annals of Neurology*.

"One percent of the general population has epilepsy, and one-third of those patients don't respond well to current treatments," said senior author Michael Wong, M.D., Ph.D., assistant professor of neurobiology and anatomy, of neurology and of pediatrics. "We need to look for new treatments that do more than just alleviate the symptoms. We have to find ways to prevent the underlying brain abnormalities that lead to seizures, and this is a first step in that direction."

Epilepsy can be induced by dozens of different causes, including various forms of brain injury, genetic mutations and exposure to environmental factors.

TS is one of the most common genetic causes of epilepsy. Epidemiologists estimate that it occurs in one birth in every 6,000. In addition to seizures, the condition may cause tumors in the brain and other organs, autism, learning disabilities, skin abnormalities and lung and kidney disease.

Scientists have linked TS to mutations in one of

two genes, TSC1 or TSC2. To better understand and seek new treatments for tumors caused by TS, Wong's colleague and co-author David Gutmann, M.D., Ph.D., the Donald O. Schnuck Family Professor of Neurology and co-director of the neuro-oncology program at the Siteman Cancer Center, created a mouse model of TS.

Research by other scientists showed that the genes mutated in TS overactivate mammalian target of rapamycin (mTOR), a protein that regulates several aspects of cell growth and proliferation. Those results led to clinical trials currently underway to see if rapamycin, an FDA-approved drug used for more than a decade, can block tumor growth by decreasing activation of the mTOR pathway.

"We reasoned that mTOR might also be abnormally regulating genes that produce neurotransmitter receptors, ion channels and other proteins involved in brain cell communication, and that this might contribute to the seizures in TS patients," Wong said. "If that's the case, rapamycin should decrease the chance of seizures by decreasing mTOR activation."

The mouse line developed by Gutmann's lab normally starts having seizures at 1-2 months of age. When Linghui Zeng, M.D., Ph.D., a postdoctoral fellow in Wong's lab, gave a group of the mice regular doses of rapamycin starting at 2 weeks of age, they were seizure-free. A closer look at the structure of brain cells in the treated mice revealed that the drug had prevented the development of structural and molecular abnormalities in brain cells known as astrocytes.

Normally the mice die at 3-4 months of age, but with regular rapamycin doses, they were still alive at 6 months. At that point, Wong's laboratory took them off the rapamycin, and the mice started seizing.

"These results support the initiation of clinical trials to test this drug's ability to alleviate seizures from tuberous sclerosis in human patients," Wong said.

DBBS to mark 35th anniversary, 1,000th graduate

The Division of Biology and Biomedical Sciences will mark two milestones May 1-2: its 35th anniversary and the graduation of its 1,000th student.

Following an opening reception May 1, events on May 2 include scientific talks by four alumni and career-path panel discussions on academics, science policy and regulatory affairs, government labs, and patent law and intellectual property. Floyd E. Bloom, M.D., a member of the WUSTL Board of Trustees and professor emeritus at The Scripps Research Institute, will give the keynote address.

The division also will host its first alumni reception following the keynote address.

Morning events will take place in Erlanger and Cori auditoriums, and afternoon events will be held in the Eric P. Newman Education Center. All events are open to the public.

For more information, visit dbbs.wustl.edu/celebration.

University Events

19th-century Barbizon movement explored in new Kemper exhibit

Between 1830 and 1880, a loosely associated group of landscape painters lived and worked in the small farming village of Barbizon, France. Rejecting the traditional artistic conventions of academic landscape painting, such as the Ideal, the Pastoral and the Heroic, they strived instead to depict an unmediated version of nature — an approach that would prove central to later avant-garde movements such as Impressionism.

In May, the Mildred Lane Kemper Art Museum will revisit this period with "The Barbizon School and the Nature of Landscape." Curated by Rachel Keith, associate registrar for exhibitions, the show is drawn primarily from the museum's permanent collection and features close to 40 works — including paintings, drawings and prints — by leading Barbizon figures as well as by later French and American artists who were influenced by the school.

In addition, the exhibition will present a small selection of travel guides and mass literature depicting popular notions of the Barbizon region. Taken together, these materials will explore how Barbizon artists were both entrenched within and struggled against the commodification and commercialization of nature.

The Kemper Art Museum's collection, which dates back to 1881, has historically focused on the work of contemporary artists; many of the paintings on view in "The Barbizon School" were acquired shortly after their creation.

For example, Julien Dupre's "In Pasture" (1882) was purchased by subscription in 1886, while Dwight William Tryon's "Before Sunrise (Morning Twilight, at Daybreak)" (1906-07) was purchased in 1910. More than a dozen other works arrived in 1905 as part of a major bequest of



Julien Dupre's "In Pasture" came to the University by subscription in 1886 — just four years after it was created. It is one of several landscapes in the exhibition "The Barbizon School and the Nature of Landscape" on view May 2-July 21.

St. Louis banker Charles Parsons. Notably, several of these paintings have recently undergone conservation to remove old, yellowed varnish in order to reveal the original intensity of color.

Barbizon and the surrounding area appealed to members of the Barbizon School both for its diverse landscapes and for its reputation as an unspoiled natural haven — which the artists believed would allow them direct, unmediated experiences of nature. The pristine quality of the area was largely fictionalized, part of efforts to bolster a fledgling tourist industry that was develop-

ing in response to growing popular demands for all things nature-related.

For turn-of-the-century audiences desperate to escape the perceived artificiality of urban life, the rural scenes of the Barbizon artists — often depicting man and nature in harmonious relationship — seemed to offer a much-desired antidote to the ills of modern industrialization.

The first section of the exhibition highlights many of the Barbizon School's core members and offers a representative sampling of the group's aesthetic themes and concerns.

These include simple, straightforward scenes of nature, ranging from mysterious forests to bucolic fields, as well as images of the rural countryside, with its peasants and flocks of sheep — all painted with an emphasis on the effects of light and atmosphere.

For example, Jules Dupre's "The River" (c. 1850) is a dramatic, almost elegiac composition depicting a sun-lit oak jutting over a pitched riverbank. "Wood Interior" (1867) by Narcisse Virgile Diaz de la Pena is a large sous-bois (or forest undergrowth) scene in which densely

packed brushstrokes mimic the color and texture of leaves, soil, bark and rock.

The exhibition's second section explores the broad impact of the Barbizon School, which reached from Impressionists such as Camille Jacob Pissarro to later French Salon painters such as Julien Dupre and Leon Lhermitte. For example, Lhermitte's large oil "La Moisson (The Harvest)" (1883) — viewed by thousands at the Paris World's Fair in 1889 — depicts a group of humble agricultural workers in a golden, scrupulously rendered hayfield, while Julien Dupre's meticulously observed "Haying Scene" (1882), like "In Pasture," is notable for bravura brushwork.

Barbizon painters also exerted a powerful influence on their American contemporaries. In "New England Village (Catskill Cove)" (1866), George Inness — who visited Barbizon in the mid-1850s — integrates Hudson River School romanticism with the Barbizon School's looser brushwork and darker palette.

Conversely, the softened focus and subtle values of Tryon's "Before Sunrise" distill the Barbizon approach through the lens of Impressionism and Tonalism.

Other American artists represented include Asher B. Durand, Sanford R. Gifford, Winslow Homer, William Henry Howe, Eastman Johnson, John F. Kensett, Theodore Robinson and Alexander Helwig Wyant.

"The Barbizon School and the Nature of Landscape" opens with a reception at 7 p.m. May 2 in the Kemper museum's Barney A. Ebsworth Gallery. The exhibition remains on view through July 21. Both the reception and exhibition are free and open to the public.

For more information, call 935-4523 or visit kemperartmuseum.wustl.edu.

Fathers Without Sons • Bye Bye Birdie • Nanostructures

"University Events" lists a portion of the activities taking place April 24-May 7 at Washington University. Visit the Web for expanded calendars for the Danforth Campus (webevent.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

"Miniature Books: Four Thousand Years of Tiny Treasures." Through June 6. Olin Library. 935-5418.

"First Year Exhibition Part I." April 25. (6 p.m. Opening Reception.) Des Lee Gallery, 1627 Washington Ave. 935-9347.

"The Barbizon School and the Nature of Landscape." May 2. (7 p.m. Opening Reception.) Kemper Art Museum. 935-4523.

"Annual Master of Fine Arts Thesis Exhibition." May 2. (7 p.m. Opening Reception.) Kemper Art Museum. 935-4523.

Lectures

Thursday, April 24

Noon. Genetics Seminar. "Molecular Mechanisms Underlying Vertebrate Regeneration." Ely Tanaka, Max Planck Institute of Molecular Cell Biology and Genetics, Germany. Erlanger Aud., 4565 McKinley Ave. 362-2139.

4 p.m. Chemistry Seminar. "Spontaneously Formed Composite Nanostructures for Catalysis and Magnetism." Ram Seshadri, assoc. prof. of materials, U. of Calif., Santa Barbara. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Film and Media Studies. "Henry Bumstead and Hollywood Art Direction, from 'To Kill a Mockingbird' to 'Flags of Our Fathers.'" Andrew Horton, prof. of film and video studies, U. of Okla. Steinberg Aud. 935-4056.

4 p.m. History Colloquium. "Trespassing in Gusiland: The Burden and Opportunity of Tribe in Colonial Kenya." Tim Parsons, prof. of history. (Reception follows.) Duncker Hall, Rm. 201, Hurst Lounge. 935-5450.

4 p.m. Vision Science Seminar Series. "The Unique Biological and Immunological Characteristics of the Ocular Surface Epithelium: From the Clinician Scientist's Point of View." Shigeru Kinoshita, prof. of ophthalmology, Kyoto Prefectural U. of Medicine, Kyoto, Japan. Maternity Bldg., Rm. 725. 362-3315.

4:15 p.m. Earth & Planetary Sciences Colloquium. Larry A. Haskin Memorial Colloquium. "Laser-Induced Breakdown Spectroscopy (LIBS): A New Technique for Planetary Surface Analyses." Roger Wiens, principal investigator, Los Alamos National Lab. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

Friday, April 25

9:15 a.m. Pediatric Grand Rounds. "Bronchitis — Is There a State of the Art." Howard M. Corneli, prof. of pediatrics, U. of Utah. Clifton Aud., 4950 Children's Place. 454-6006.

11 a.m. Computer Science & Engineering Colloquium. "Recent Progress in Heuristic Search: A Case-Study of the 4-Peg Towers of Hanoi Problem." Richard E. Korf, prof. of computer science, UCLA. Cupples II Hall, Rm. 217. 935-6160.

3 p.m. Genome Sequencing Center National DNA Day Symposium. "The Human Genome Sequence: A Foundation for Biological Inquiry." Elaine Mardis, assoc. prof. of genetics. (Poster Session 1 p.m. Reception follows, Seashell Lobby.) McDonnell Medical Sciences Bldg., Erlanger Aud. and Cori Aud., 4565 McKinley Ave. 286-1800.

Saturday, April 26

7:30 a.m.-12:25 p.m. Hospital Care CME Course. "Care of the Hospitalized Patient: Update 2008." Cost: \$95 for physicians,

\$75 for allied health professionals. Queeny Tower Restaurant. To register: 362-6891.

10 a.m. Physics Saturday Science Lecture Series. "Turbulence." Carl Bender, prof. of physics. Crow Hall, Rm. 201. 935-6276.

Monday, April 28

3 p.m. Association of Women Faculty Colloquium. "Reproducing Gender in Academia: A Discussion About Inequalities." Ann McGinley, prof. of law, U. of Nev., Las Vegas. Co-sponsored by the Academic Women's Network. Whitaker Hall, Rm. 218. 935-6160.

4 p.m. Immunology Research Seminar Series. Paul E. Lacy Lecture. "Mechanisms of Malignant Progression." Robert Weinberg, Whitehead Inst. for Biomedical Research. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

Tuesday, April 29

9 a.m.-4:30 p.m. Center for the Application of Information Technology Executive & Management Forum. "Business Requirements Management." (Continues 9 a.m.-4:30 p.m. April 30 and May 1.) Cost: \$1,530, reduced fees available for CAIT member organizations. CAIT, 5 N. Jackson Ave. 935-4444.

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Host Factors Promoting and Restricting Retrovirus Replication." Steve Goff, prof. of biochemistry, molecular biophysics & microbiology, Columbia U. Wohl Hosp. Bldg. Aud. 362-9223.

4 p.m. History Lecture. "Fathers Without Sons: The Making of the Last Prophet." David S. Powers, prof. of Islamic history & law, Cornell U. Co-sponsored by Jewish, Islamic and Near Eastern Studies and Religious Studies. Duncker Hall, Rm. 201, Hurst Lounge. 935-5450.

6:30 p.m. Center for the Study of Ethics & Human Values Lecture. "Global Poverty: What Are Our Obligations?" Peter Singer, prof. of bioethics, Princeton U. Edison Theatre. 935-9358.

Wednesday, April 30

11 a.m., Electrical and Systems Engineering. "Time is of the Essence: Exploiting an Unused Degree of Freedom in Packet Networks." Negar Kiyavass, res. asst. prof., University of Illinois at Urbana-Champaign. 935-5565

Noon. Center for the Study of Ethics & Human Values Lecture. "Medical Decisions About Life and Death." Peter Singer, prof. of bioethics, Princeton U. McDonnell Medical Sciences Bldg., Erlanger Aud. 935-9358.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Phosphorylation-Mediated Activation of Bacterial Response Regulator Transcription Factors." Ann Stock, prof. of biochemistry, U. of Medicine & Dentistry of New Jersey. McDonnell Medical Sciences Bldg., Rm. 264. 362-4152.

Thursday, May 1

Noon. Genetics Seminar. "Stem Cells, Small RNAs and Self-Renewal." Haifan Lin, prof. of cell biology, Yale School of Medicine. McDonnell Medical Sciences Bldg., Erlanger Aud. 362-2139.

Friday, May 2

9 a.m.-6 p.m. Biology & Biomedical Sciences Lecture. 35th Anniversary, Marking of 1,000th Graduate and Inaugural Alumni Reunion. "So Now What? Exploring Science With a Ph.D." Floyd E. Bloom, prof. emeritus, The Scripps Research Inst., Eric P. Newman Education Center. 747-0947.

2-5:30 p.m. Pluralism, Politics and Religion Workshop. "The Social Frameworks for Cultural and Religious Pluralism." (Continues 9 a.m.-5 p.m. May 3.) Women's Bldg. Formal Lounge. 935-4448.

Saturday, May 3

7:30 a.m.-Noon. Oncology CME Course. "Cancer of the Liver: Curative and Palliative Therapies." Cost: \$45. The Ritz-Carlton,

St. Louis, 100 Carondelet Plaza. To register: 362-6891.

Monday, May 5

4 p.m. Immunology Research Seminar Series. "Specifying the T Cell Fates Required for Immunity." Steve Reiner, prof. of medicine, U. Pa. School of Medicine. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

Tuesday, May 6

8:15 a.m.-5 p.m. Human Research Protection Course. "Necessary Elements in Fundamentals of Human Subject Research." (Continues 8:15 a.m.-5 p.m. May 13 & 20.) Cost: \$350. Charles F. Knight Center. To register: hrpo.wustl.edu.

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Molecular Mechanisms of Flavivirus Immune Recognition and Cell Entry." Yorgo Modis, asst. prof. of molecular biophysics & biochemistry, Yale U. McDonnell Medical Sciences Bldg., Erlanger Aud. 362-2842.

5:30 p.m. Biochemistry & Molecular Biophysics Seminar. "Molecular Analysis of Actin Assembly at Membranes." John Cooper, prof. of cell biology. Cori Aud., 4565 McKinley Ave. 362-4152.

Wednesday, May 7

4 p.m. Biochemistry & Molecular Biophysics Seminar. "CIB1 Signaling Networks in Cardiovascular Disease and Cancer." Leslie Parise, prof. of biochemistry & biophysics, The U. of N.C. at Chapel Hill. McDonnell Medical Sciences Bldg., Rm. 264. 362-4152.

Music

Thursday, April 24

6:30 p.m. Jazz Recital. Dan Silver, saxo-

East Village Opera Company brings rock arrangements to opera music

You've heard opera, and you've heard rock, but you've never heard opera rocked like the East Village Opera Company.

Over the past five years, this powerhouse ensemble — comprising a five-piece band, a string quartet and two outstanding vocalists — has created electric, hard-hitting arrangements of many of opera's "greatest hits." At 8 p.m. May 2, the East Village Opera Company will make its St. Louis debut in a special, one-night-only performance as part of the Edison Theatre OVATIONS! Series.

The East Village Opera Company was co-founded by singer Tyley Ross and arranger/multi-instrumentalist Peter Kiesewalter.

Ross — who also is an actor and a singer-songwriter — began performing in his early teens and was handpicked by Pete Townshend to play the title character in the Canadian production of The Who's "Tommy." He later starred on Broadway in "Miss Saigon" and, in 2001, was cast in the Canadian film "Kiss of Debt" as an aspiring opera singer under the thumb of a crime boss.

Kiesewalter, who earned a classical performance degree in clarinet from Ottawa University, is a former musical director for New York's "The Bottom Line's Downtown Messiah," a seasonal presentation that recasts Handel's oratorio for pop-music performers. In 2001, he was working as a house composer at ABC-TV when he was approached to create contemporary settings of traditional arias for "Kiss of Debt."

"Peter agreed to do one song initially," Ross said, "but we had such a good time that we quickly recorded 15 songs."

In 2003, Ross and Kiesewalter mastered those extra tracks and self-released "La Donna," the first East Village Opera Company album. Brash and inventive, it featured classic arias — such as "La Donna e Mobile," from Giuseppe Verdi's "Rigoletto," and "Vesti la Giubba," from Ruggiero Leoncavallo's "Pagliacci" — interpreted as everything from disco to bossa nova to arena rock.

In March 2004, the East Village Opera Company made its live debut before a small crowd at Joe's Pub in Manhattan. "The reaction was unbelievable," Ross



Peter Kiesewalter (left) and Tyley Ross lead the East Village Opera Company.

said. "From that one show, we had national press virtually overnight. Within a couple months, we were selling the place out. Within a year, we had signed a deal with Universal Classics."

For the group's 2005 self-titled major label debut, Ross and Kiesewalter recruited female vocalist AnnMarie Milazzo for tracks such as "Au Fond du Temple Saint," from Georges Bizet's "The Pearl Fishers," and "Ebben? Ne Andro Lontana," from Alfredo Catalani's "La Wally."

The album was produced by Neil Dorfman, a three-time Grammy Award winner who previously worked with Sting, Dire Straits, Paul McCartney, Bjork and others. String arrangements were recorded in Prague by the Czech Philharmonic Chamber Orchestra featuring lead violinist Pauline Kim.

By embracing what Kiesewalter calls "the pomposity of rock and the pomposity of opera" without demeaning or satirizing either form, the East Village

Opera Company succeeds where countless other classical-crossover efforts have failed.

"We have a profound love and respect for the opera," Kiesewalter said. "But it's so dramatic, so over the top by today's standards that it cannot be delivered with a straight face. You need a little bit of irreverence in it."

"With modern recording technology and a wide variety of musical styles at our disposal, our goal has been to approach these songs the way we feel the composers would were they alive today," Ross said.

Tickets — \$30 to the public; \$25 for seniors, faculty and staff; and \$18 for students and children — are available at the Edison Theatre Box

Office and through all MetroTix outlets. For more information, call 935-6543 or e-mail Edison@wustl.edu.

Annual Chancellor's Concert to feature music of Respighi, Borodin and Dvorak

By LIAM OTTEN

The Washington University Symphony Orchestra and Concert Choir will present the 2008 Chancellor's Concert at 3 p.m. Sunday, April 27.

Sponsored by the Department of Music in Arts & Sciences, the concert is free and open to the public and will take place in the 560 Music Center's E. Desmond Lee Concert Hall.

Dan Presgrave, instrumental music coordinator, conducts the 70-plus-member Symphony Orchestra. John Stewart, director of vocal activities, conducts the 60-plus-member Concert Choir.

The program will open with "Fountains of Rome" (1915-16) by Italian composer Ottorino Respighi (1879-1936). Born in Bologna, Respighi studied in St. Petersburg with Nikolai Andreyevich Rimsky-Korsakov and later taught composition at the Conservatorio di Santa Cecilia in Rome. There, he composed his acclaimed "Roman Trilogy," of which "Fountains of Rome" is the first part. (Its two companion works, "Pines of Rome" (1923-24) and "Roman Festivals" (1928), have both previously been performed by the Symphony Orchestra.)

"Fountains of Rome" is a musical picture of four of

Rome's fountains," Presgrave said, "contemplated at the hour in which their character is most in harmony with the surrounding landscape."

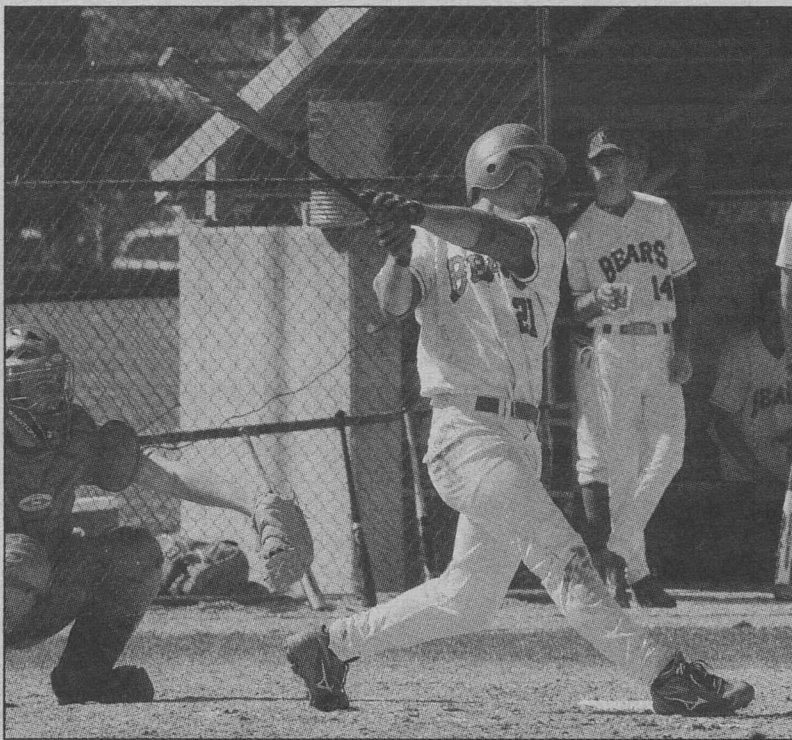
The piece begins at dawn with the Fountain of Valle Giulia, followed in a blast of horns by morning at Giovanni Bernini's celebrated Triton Fountain, dedicated to the Greco-Roman sea god. Noon brings listeners to the Trevi Fountain, perhaps Rome's most famous (it was later featured in Federico Fellini's "La Dolce Vita"), while the piece concludes with the Villa Medici Fountain at sunset.

The program continues with "Polovetsian Dances" by Alexander Borodin (1833-1887). The suite represents the best-known selections from Borodin's unfinished opera "Prince Igor," based on the 12th-century Slavic poem "The Lay of Igor's Host." Concluding the program is "Symphony No. 8 in G major" (1889) by Antonin Dvorak (1841-1904).

"Symphony No. 8" is nothing less than Dvorak at his best," Presgrave said. "Unmistakably Bohemian in character, it sings of folklore and dance and conjures up images of the beautiful Czech countryside."

For more information, call 935-5566 or e-mail kschtz@arts.wustl.edu.

Sports



Junior Zander Lehmann, who powered the team over Westminster last week, leads the Bears in RBIs with 20 through April 17.

Men's tennis defeats Maryville

The No. 2 men's tennis team picked up its 12th win of the season in a 9-0 victory over Maryville University April 15 at the Tao Tennis Center. The Bears are 5-0 at home this season and have won 32 of their last 33 home matches. Under seventh-year head coach Roger Follmer, the Bears are 58-6 (.906) when playing on home courts.

Baseball splits pair of road games

The baseball team had a 1-1 week, winning at Westminster College, 12-4, April 16 but falling at No. 16 Illinois Wesleyan University, 13-2, April 17. Junior Zander Lehmann powered the WUSTL offense against Westminster, going 3-for-5 at the plate with a home run and five RBIs.

Sophomore Jeremy Rogoff picked up a win, lasting seven innings, allowing four runs and striking out a career-high 10 batters.

WUSTL athletics gets more recognition

WUSTL's Department of Athletics is ranked No. 7 in the annual Hall of Fame Magazine Top 15 Collegiate Athletic Programs. The rankings are based on colleges and universities in NCAA Divisions I, II and III and NAIA. The Bears won national championships in volleyball and men's basketball in 2007-08 and picked up third-place finishes in women's indoor track and field and women's cross country.

In addition, WUSTL placed fifth in men's soccer, sixth in women's swimming and diving, ninth in women's soccer, 13th in men's swimming and diving and 17th in women's basketball.

The Bears also are in first place in the 2007-08 United States Sports Academy Directors' Cup Division III standings.

Women's track wins eighth straight title

The women's track team outlasted the University of Chicago to capture its eighth straight University Athletic Association (UAA) Outdoor Championship April 20 in Chicago. The Bears finished the two-day meet with 259 points, while Chicago compiled 243.5 team points. The men's team finished fourth out of seven teams at the meet.

Junior Danielle Wadlington was the star for the women's squad, earning all-UAA honors in five events. She won the triple jump and 100-meter hurdles, placed second in the 200-meter dash and was third in the 100-meter dash. Wadlington also was a member of the first-place 400-meter relay team. Junior Tanner Coghill turned in the best individual performance for the men's team, winning the 400-meter hurdles with an NCAA Outdoor Championship provisional qualifying time of 53.22.

Women's tennis third at UAA Championships

Both teams return to action at the Southern Illinois University Edwardsville Cougar Open Saturday, April 26.

The women's tennis team came in third place at the 2008 University Athletic Association (UAA) Championships in St. Louis last weekend. The third-seeded Bears opened tournament play with a 5-3 win over New York April 18. WUSTL fell to No. 9 Carnegie Mellon University, 7-2, April 19 but bounced back to pick up a 6-3 win over No. 30 University of Chicago in third-place match April 20.

The Bears improved on their fifth-place finish at the 2007 UAA Championships and wait to hear Monday, April 28, whether they earn an at-large berth into the NCAA Division III Championships scheduled to begin May 2.

phone; Andrew Kline, piano; Ben Wheeler, bass; Mark Daus, drums. Recital Hall, 560 Trinity Ave. 935-4841.

8 p.m. Jazz at Holmes. Amina Figarova, piano. Ridgely Hall, Holmes Lounge. 935-5566.

Sunday, April 27

3 p.m. Chancellor's Concert. "Fountains of Rome" and "Dvorak's Symphony No. 8" by Washington University Symphony Orchestra. "Polovetsian Dances" by Washington University Orchestra and Concert Choir. E. Desmond Lee Concert Hall, 560 Trinity Ave. 935-4841.

Monday, April 28

8 p.m. Concert. Flute Choir. Graham Chapel. 935-4841.

Tuesday, April 29

8 p.m. Concert. Small Chamber Ensembles. Graham Chapel. 935-4841.

Thursday, May 1

8 p.m. Concert. Guitar Gala. Graham Chapel. 935-4841.

Friday, May 2

8 p.m. Opera Scenes. (Also 8 p.m. May 3.) Umrath Hall Lounge. 935-5566.

On Stage

Thursday, April 24

8 p.m. School of Medicine Spring Musical. "Bye Bye Birdie." (Also 8 p.m. April 25

Friday, April 25

8 p.m. Performing Arts Dept. Presentation. "The Lion and the Jewel." (Also 8 p.m. April 26; 2 p.m. April 27.) Cost: \$15, \$9 for seniors, WUSTL students, faculty & staff. Edison Theatre. 935-6543.

Friday, May 2

8 p.m. OVATIONS! Series. East Village Opera Company. Cost: \$30, \$25 for seniors, WUSTL faculty & staff, \$18 for students & children. Edison Theatre. 935-6543.

Sports

Tuesday, April 29

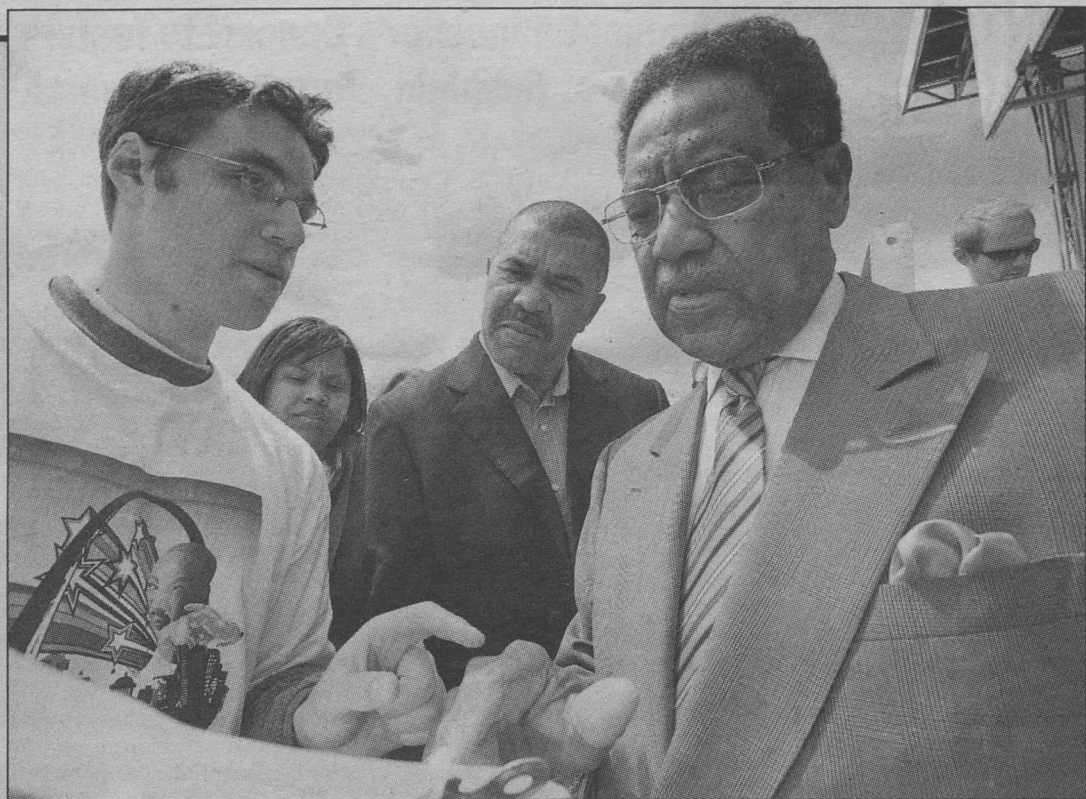
4 p.m. Softball vs. Greenville College. Kelly Field. 935-4705.

Friday, May 2

Noon. Baseball vs. Calif. State East Bay. Kelly Field. 935-4705.

Saturday, May 3

11 a.m. Baseball vs. Calif. State East Bay. Kelly Field. 935-4705.



Dream Keepers' Fair Evan Krauss (left), first-year student at the George Warren Brown School of Social Work, talks to U.S. Rep. William Lacy Clay, D-Mo. (center), and Henry Givens Jr., Ph.D., president of Harris-Stowe State University, during the Dream Keepers' Fair April 19 on Compton Avenue between Saint Louis University and Harris-Stowe. The event, hosted by the St. Louis Dream Keepers and centered around the 40th anniversary of the assassination of Martin Luther King Jr., began with a two-minute moment of silence in honor of King. Following the tribute, attendees enjoyed a variety of festivities. The St. Louis Dream Keepers is a coalition of students and young professionals working for racial harmony and economic justice within the St. Louis Metropolitan Area. Krauss served as one of the event organizers.

Surgery

— from Page 1

AF is the most common irregular heart rhythm and affects more than 2 million people in the United States. During atrial fibrillation, the upper chambers (atria) of the heart beat rapidly and quiver instead of contracting, drastically reducing the amount of blood they pump. AF can cause fatigue, shortness of breath, exercise intolerance, heart palpitations and stroke.

Led by Damiano, also a cardiac surgeon at Barnes-Jewish Hospital, the WUSTL surgeons revolutionized AF treatment in 2002 by helping develop a radiofrequency clamp that creates the ablation lines needed to reroute electrical impulses in the heart. The clamp directs radiofrequency energy into the heart muscle and creates a full-thickness scar.

The radiofrequency clamp procedure is quicker and easier than the original "cut and sew" Cox-Maze procedure, which was developed by James Cox, M.D., at WUSTL in 1987. The original procedure relied on a complex series of 10 incisions in the heart muscle, creating a "maze" to channel errant electrical impulses where they should go. In the newer version, called Cox-Maze IV, most of these incisions were replaced by radiofrequency ablations, reducing the operation from an average of 90 minutes to about 30 minutes.

The current study involved two groups of patients with AF. One group underwent radiofrequency ablation-assisted Cox-Maze IV procedures without a box lesion and the other with a box lesion. The box lesion group had a 48 percent lower occurrence of atrial flutter and fibrillation in the first weeks after surgery. These patients also had shorter hospital stays (nine days

on average) than patients who had the standard Cox-Maze IV procedure (an average stay of 11 days).

Three months after surgery, 95 percent of patients who had the box lesion had no signs of AF, while only 85 percent of the patients who had the standard Cox-Maze IV procedure were free from AF. By six and 12 months postsurgery, all of the patients in the box lesion group were free from AF compared with 90 percent of the other group, although that difference was not statistically significant.

"We also saw that the use of antiarrhythmic drugs was lower after three and six months in those who received a box lesion," Damiano said. "These drugs can have serious side effects, and if patients can stop using them, they often feel better. Overall, the use of the box lesion set was associated with shorter hospitalization, fewer medications and reduced recurrence of atrial fibrillation."

RecycleMania

— from Page 1

of 163 schools with 12.87 pounds of recycled paper per person, and the Per Capita Classic — based on the amount of material recycled per person — finishing No. 49 of 180 schools with 21.45

pounds.

This year, more than 400 schools participated in the contest, the most in RecycleMania's eight-year history and approximately twice as many as the 201 schools that participated in 2007.

RecycleMania is a 10-week competition administered by the National Recycling Coalition (NRC) that pits WUSTL against

colleges and universities throughout the United States to see which campus can prevent the most materials from landing in a landfill.

For more information on the contest or to see the results, visit recyclemaniacs.org.

For information about recycling on the WUSTL campus, visit ceq.wustl.edu/recycling.htm.

Honor

— from Page 1

at Lucknow University in Lucknow, India. In 1967, he began teaching at Saint Louis University and served as assistant dean; in 1974, he joined Washington University as dean.

Khinduka earned a bachelor's degree from Rajasthan University,

two master's degrees in social work — one from Lucknow and another from the University of Southern California — and a doctoral degree in social welfare from Brandeis University.

"Search" awardees receive a replica of "The Search," a sculpture designed by emeritus professor of art Heikki Seppa. The silver statue represents the endless quest for truth and knowledge.

The Eliot Society, named after

the University's co-founder, was established in 1959. Members of the Eliot Society provide unrestricted leadership support to strengthen Washington University and its mission to serve students and faculty. Each year, every school and its faculty and students benefit from the support of the University's most generous philanthropists. Currently there are more than 5,000 society members.

ulty and staff all need to know where to go and what to do during an emergency. Before an emergency occurs, take some time to become familiar with the ways to respond to potential emergencies by visiting the links above.

As a reminder, the University also has established "WUText," a service that provides emergency alerts to cell phones as well as to laptop and desktop computers.

Although this system has been preloaded with the e-mail addresses of all faculty, staff and students, individuals must regis-

ter if they wish to receive the alerts on their cell phones.

For more information, to register for the service or to update information, go to the link on the emergency.wustl.edu page.

"I hope the community will take this earthquake as a reminder to be prepared for all types of emergencies," said Mark Bagby, University disaster coordinator.

For more information on emergency procedures, visit emergency.wustl.edu or call Bagby at 935-9261.

Four nonprofits honored as social entrepreneurs

By SHULA NEUMAN

Four local nonprofits were honored at an awards dinner April 17 for the third annual Social Entrepreneurship and Innovation Competition (SEIC).

The teams will receive a total of \$110,000 in cash and in-kind support for successfully demonstrating that their ventures have social value and that their group has the ability to implement its plans. Partners in the SEIC are the Skandalaris Center for Entrepreneurial Studies and the YouthBridge Community Foundation. The SEIC is designed to foster growth for social entrepreneurs who craft innovative processes, approaches and solutions to help resolve social issues.

This year's winning teams were selected from a field of 24 entrants. Since September, the teams have participated in workshops and judging events and received feedback on their ideas. The YouthBridge series of workshops is free and open to all with an interest in social entrepreneurship, and this year's workshops were designed for nonprofits that may be interested in the concept but perhaps were not ready to compete.

The SEIC has several other supporters in addition to Washington University and YouthBridge. This year, the Lutheran Foundation of St. Louis joined with the Incarnate Word Foundation, which returned for its third year of supporting the competition. RubinBrown is a Skandalaris Center supporter and will be providing in-kind support to two of the winners, and Innovate VMS, the venture mentoring service of Innovate St. Louis, also plans to support the winning teams.

This year's winners are:

• **StudioSTL**, which empowers youth to discover, develop and celebrate their individual voices through writing. The organization teams students with area writers, artists and educators who volunteer to assist with writing projects that are published or performed — in a song, a film, a newspaper or an anthology of collected works. StudioSTL received the \$35,000 YouthBridge award and also will benefit from RubinBrown support.

• **LiveFeed**, which engages St. Louis' entertainment industry and its fans to reduce hunger. The organization provides promotional resources and incentives to affiliated bands and venues that then raise money at performances to provide funding for local food pantries. LiveFeed received the \$30,000 Lutheran Foundation of St. Louis award and will benefit from RubinBrown support.

• **BEGIN (Businesses, Employment, Growth, Incomes, Neighborhoods) New Venture Center at St. Patrick's Center**, which prepares homeless and impoverished people for higher-wage, sustainable jobs. It develops and operates a mixed-use, small-business incubator in conjunction with the St. Patrick's Center's skills and training center. BEGIN received a \$15,000 Skandalaris award that was supplemented by YouthBridge.

• **Indego Africa**, which partners with existing artisan cooperatives in Africa to provide organizational management expertise, commercial opportunities and capital donations. The organization's goal is to enable Africans to bring themselves out of poverty by exporting their unique handicrafts and directing the revenue generated toward training in higher-value skills. Indego Africa also received a \$15,000 Skandalaris award supplemented by YouthBridge.

Bijal Desai, MBA 2008 in the Olin Business School also received a \$5,000 cash award for her work supporting StudioSTL.

"We are pleased with the growth and direction of the competition," said Ken Harrington, managing director of the Skandalaris Center.

"It sometimes takes a year or two for people to understand how social entrepreneurship works and how earned income can impact their organization. For example, we've supported LiveFeed for a couple of years, and they have developed an interesting hybrid approach. They collaborate with other organizations (both for-profit and nonprofit) to raise new money they funnel to existing nonprofits already serving the hungry in St. Louis," Harrington said.

The Awards Dinner featured a presentation by Greg Roberts, president and CEO of the D.C. Children and Youth Investment Trust Corp., a nonprofit organization which works strategically to address the long-term needs of children, youth and families in the District of Columbia. Roberts spoke on the topic of "Moving Social Entrepreneurs to Achieve Excellence" and challenged nonprofits to equip leaders with the entrepreneurial skills to transform their organizations, producing not only better managers but also better leaders and social entrepreneurs.

Plans already are under way for next year's competition and YouthBridge workshops, including an orientation to help participants understand the concepts of social entrepreneurship and earned income.

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Emergency

— from Page 1

of emergency situations. The site is always available and, when there is no emergency, contains a message that reads:

"Currently, there is no emergency at Washington University. In the event of an emergency, this site will be regularly updated to provide information to the University community. Students, fac-

Notables

Social work to present 2008 Distinguished Alumni Awards

The George Warren Brown School of Social Work will honor five distinguished individuals for outstanding school service during its annual Alumni Awards Dinner Wednesday, April 30, at the Coronado Ballroom.

Three alumni will receive Distinguished Alumni Awards; one faculty member will receive the Distinguished Faculty Award; and one member of the community will receive the Dean's Medal. The honorees:

Distinguished Alumni Award

Ruth R. Ehresman (MSW '83) has a passion for social justice that has been the unifying thread throughout her career. For the past 13 years, her work has focused on policy analysis, education and advocacy. Ehresman was policy director of Citizens for Missouri's Children for 11 years and has been the director of health and budgetary policy at the Missouri Budget Project since 2005. Ehresman has been a neighborhood activist, providing leadership to preserve and develop the Southside National Bank building and working to promote the development of three derelict commercial sites. She has served on numerous boards and statewide task forces. In 2006, the St. Louis Business Journal named her a Health Care Hero in Public Policy.

Ronda S. Connaway (MSW '59, DSW '64) has devoted her career to advancing social work education and to community service. She joined the Brown School faculty in 1964, leaving 10 years later to become a professor and dean of the College of Social Professions at the University of Kentucky. In 1979, she was named associate dean for academic programs at the University of Kentucky Graduate School. From 1983-1994, she was a professor in the College of Social Work and earned the Chancellor's Faculty Incentive Award in 1990. Connaway is the co-author of the textbook "Social Work Practice" as well as 18 papers published in journals, as book chapters and/or proceedings. She lives in Gunnison, Colo., and, in 2007, was named Gunnison Country Chamber of Citizen of the Year.

Michael E. Willis (BA '73, MSW '76, MArch '76) is founder and president of Michael Willis Architects. His architecture, urban design and interiors firm has built a national reputation for creating thoughtful design solutions for municipal clients throughout California and beyond. His goal is to create buildings that are good neighbors while providing a safe, efficient environment for its occupants. Willis, an active and influential member of the American Institute of Architects (AIA), was a founder of the National AIA Board Knowledge Committee. Willis was a member of the AIA task force for the post-Katrina Louisiana Governor's Rebuilding and Recovery Conference in New Orleans. He is a Distinguished Alumni of the WUSTL School of Architecture and a holder of a National Black Achievement award of the Black Alumni Council.

Distinguished Faculty Award

Curtis McMillen, Ph.D., is professor of social work and associate director of the Center for Mental Health Services Research (CMHSR). Since McMillen joined the Brown School faculty in 1994, he has played a leadership role in many teaching, research and serv-

ice initiatives. McMillen maintains an active research agenda in child welfare and mental health services funded through the National Institute of Mental Health. Active in the local community, he works closely with three social service agencies. He helped forge the Brown School's partnership around evidence-based practices with the Family Resource Center. He is implementing a treatment foster care program with the Missouri Alliance for Children and Families. He also continues his long-term collaboration with the Missouri Children's Division on multiple quality improvement efforts. In 2001, McMillen was named CMHSR associate director. The only center of its kind in a school of social work, CMHSR focuses on using evidence-based practices to close the gap between care that "should be" delivered and care that "is."

The Dean's Medal

B. A. Bridgewater Jr., retired chairman and chief executive officer at Brown Shoe Co. His career with the St. Louis-based shoe manufacturer, founded by Brown School's namesake George Warren Brown, spanned more than 20 years. Bridgewater joined the University's Board of Trustees in 1983. He has chaired the University's Educational Policy Committee, Audit Committee and Honorary Degree Committee and served the Executive Committee and Chancellor Search Committee. In 2004, Bridgewater joined the Brown School's National Council as chairman. During his 40-year career, he has been a director (senior partner) at McKinsey and Co. and associate director of the National Security and International Affairs of the Office of Management and Budget in the Executive Office of the President of the United States. He has been director of 12 New York Stock Exchange companies and served for six years as a member of the Board of Visitors of the Harvard Business School.



Service in bloom Alumna Shirley Bowden Brown (right) is presented with flowers from Antoinette Stallings, an Eskridge High School senior and participant in WUSTL's Wellston Summer School program. An educational consultant, Brown is one of seven recipients of the 2008 Gerry and Bob Virgil Ethic of Service Award, presented annually to a select group of WUSTL community members who exemplify a character of service and giving to the St. Louis region. Other honorees, recognized at a reception April 16, are alumna M. Virginia Braxx, lecturer in Spanish in the Department of Romance Languages and Literatures in Arts & Sciences; Van Brokaw, executive director of marketing and strategic planning; I. Jerome Flance, M.D., professor emeritus of clinical medicine; Elizabeth Kramer, a senior majoring in mechanical engineering; alumna Jeanine Schierbecker, clinical specialist in occupational and physical therapy; and Priya Sury, a sophomore double major in anthropology and Spanish, both in Arts & Sciences.

Career services dean hired by law school

By JESSICA MARTIN

Michael Spivey has been named the new assistant dean for career services, strategy and marketing at the School of Law, announced Kent D. Syverud, J.D., dean and the Ethan A.H. Shepley University Professor.

Spivey, associate director for admissions at Vanderbilt Law School, was named to the position at the University after a national search conducted by Janet Bolin, associate dean for admissions and student services, and Charles Burson, J.D., visiting law professor.

"Dean Spivey is an enthusiastic manager who is highly motivated to achieve progress in career placement of our students," Syverud said. "In his work in admissions at Vanderbilt, he has acquired a national reputation for knowing and recruiting students individually and effectively and for marketing the school."

"We believe he will be an excellent new leader for the challenges and opportunities we face in career

services. Dean Spivey also will be assisting us, as part of our student services team, in forming strategy and marketing efforts for all aspects of our operations," Syverud said.

Spivey has served in the Vanderbilt University Law School administration since 2000, including as associate director of admissions, coordinator of admissions and recruitment and admissions counselor. Previously, he was co-chair for NCAA athletic department accreditation at Vanderbilt. Spivey also has served as a lecturer in business ethics at the University of Alabama and has written and presented extensively on law school admissions topics.

Spivey earned a bachelor's degree from Vanderbilt University and a master's of business administration from the University of Alabama. A doctoral candidate in educational leadership and policy at Vanderbilt, he also has taken graduate-level courses in statistics, research methodology and human resources at the Georgia Institute of Technology College of Management.

Jazz workshop for K-12 teachers funded by NEH

By LIAM OTTEN

Gerald Early, Ph.D., the Merle Kling Professor of Modern Letters in the Department of English and director of the Center for the Humanities, both in Arts & Sciences, has received a \$73,000 grant from the National Endowment for the Humanities' (NEH) Division of Education Programs.

The grant will fund "The Impact of Jazz on American Life," an NEH Faculty Humanities Workshop for K-12 teachers that will examine how interdisciplinary approaches to popular music, specifically jazz, can enrich a variety of humanities subjects. Run under the auspices of the Center for the Humanities, the program is one of seven NEH Faculty Humanities Workshops for 2008-09. In addition, it has been designated part of "We the People," an NEH initiative designed to explore significant events and themes in American history and culture.

Early said the workshop will explore "how a music went from being hot to being cool, how we Americans learned to talk jive and be hip, how an art form grabbed our hearts and minds and, for a time, refused to let go."

"It is a story about national pride and about heroic resiliency, success and failure," he said. "It is the story of American jazz."

"The Impact of Jazz" builds on the Center for the Humanities' summer institute "Teaching Jazz as American Culture," which took place in 2005 and 2007 and also received NEH funding. Like its predecessor, "The Impact of Jazz" aims to help teachers understand how investigating a major American art form — from cultural, technical and aesthetic perspectives — can broaden understanding of American history and literature while revealing new facets of its political, social and commercial influence.

The workshop will include a weeklong summer session as well

as eight Saturday sessions spaced throughout the 2008-09 academic year.

Instructors will include some of the nation's leading scholars of jazz music and American culture, including Early; Patrick Burke, Ph.D., assistant professor of music in Arts & Sciences; and Cecil Slaughter, senior lecturer in dance in Arts & Sciences.

In addition, participants will attend live performances by nationally known jazz musicians at Jazz at the Bistro, one of the Center's institutional partners. Other institutional partners include the St. Louis Public Schools and the

St. Louis Archdiocese. (A representative from each of the latter will serve on the workshop's supervising staff.)

Enrollment is limited to 20 applicants and is open to teachers from a variety of disciplines, including English, history, social studies, art and music, as well as to qualified non-teachers such as librarians, media specialists and museum staff. Applications are available online at cenhum.artsci.wustl.edu or can be requested by calling 935-5576.

The application deadline is May 23. Successful applicants will be notified no later than June 2.

For the Record

Of note

Brian Allan, graduate fellow in biology in Arts & Sciences, has received a one-year, \$10,000 grant from the National Fish and Wildlife Foundation for research titled "Predator Role in Prey Disease Reduction."

Timothy M. Lohman, Ph.D., the Marvin A. Brennecke Professor of Biological Chemistry, has received a four-year, \$1,994,128 grant from the National Institutes of Health for research titled

"Helicase Catalyzed DNA Unwinding."

Yoram Rudy, Ph.D., the Fred Saigh Distinguished Professor of Engineering, professor of biomedical engineering, of cell biology & physiology, of medicine, of radiology and of pediatrics, and director of the Cardiac Bioelectricity and Arrhythmia Center (CBAC), was elected as the Hein J.J. Wellens Distinguished Professor in Cardiology at the University of Maastricht, The Netherlands. Rudy will conduct workshops on cardiac electrophysiology

at the Cardiovascular Research Institute Maastricht (CARIM) during September 2008 and May 2009. He will also host visiting scientists from Maastricht University in his WUSTL laboratory as part of a CBAC-CARIM collaboration in heart research.

Karen L. Wooley, Ph.D., the James S. McDonnell Distinguished University Professor in Arts & Sciences, received a \$13,200 grant from the Office of Naval Research (ONR) to sponsor a joint ONR/AMBIO project workshop in 2007.

Washington People

Riddle: What do you call a native of India who loves to ski and swears that American football is "the most strategically complex sport ever devised by man"? You call him Anjan V. Thakor, Ph.D.

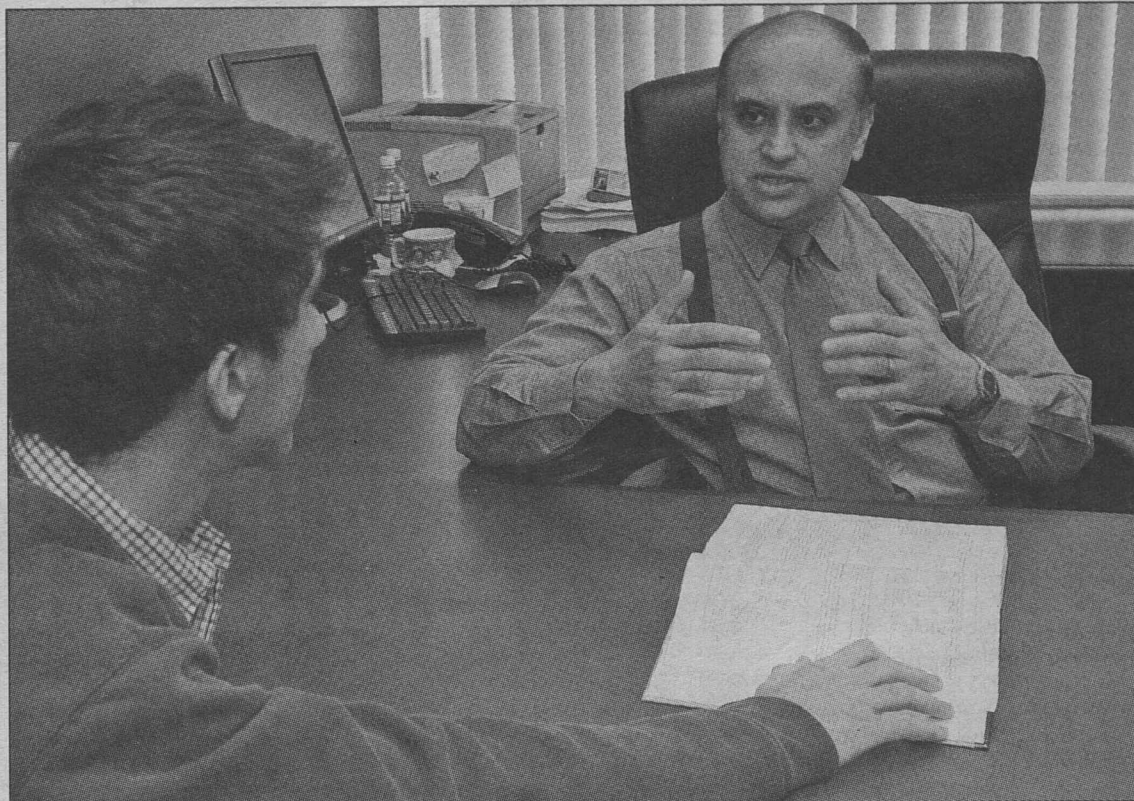
In a way, Thakor himself could be called "strategically complex." On first glance, you might think he's just another brilliant Olin Business School professor (the John E. Simon Professor of Finance, in fact) who also happens to be a senior associate dean. But take a closer look at his background and activities, and you'll soon suspect that something different is going on.

Try calling him over spring break or a long weekend, and he'll be out of town.

Ask other professors at the business school what makes him tick, and they won't know where to start.

Take a look in his office and you'll notice his desk is clear of clutter — aside from a few foot-high stacks of papers leaning against the wall off to the side.

Although the evidence points to a man who is seriously slacking off now that he is a chaired profes-



Anjan V. Thakor, Ph.D., meets with BSBA student Alexander Zentefis, a junior, in his office. "The level of energy, perseverance and focus that Anjan has is extraordinary, and he brings that to everything he does, whether it's his academic research, professional work or family life," says Stuart Greenbaum, Ph.D., former dean of Olin Business School. "He's a franchise player."

By SHULA NEUMAN

Good sport

Thakor's work brings together two of his passions: research and football

sor, nothing could be further from the truth. In Thakor's five years at WUSTL, he has published nearly 20 papers, monographs or books and presented papers at dozens of conferences. He helped found — and is president of — the Financial Intermediation Research Society, an international organization of people who study banking.

As senior associate dean, he started the Master's of Science in Finance program. Thakor is involved with the business school's new strategic plan, which includes creating two research centers at the business school — one for finance and accounting research, and the other for innovation.

Did we mention he also gets rave reviews for his teaching?

For Thakor, all of his activity seems to serve as a fuel for him. Former business school dean Stuart Greenbaum, Ph.D., lured Thakor to WUSTL from Thakor's tenured position at the University of Michigan. Thakor could have gone anywhere he wanted, but he chose to come to Olin for two reasons: the opportunity to help the

business school grow, and his son Richard.

"Washington University was one of the schools my son was considering for college at that time. All the schools he was looking at were places that we had some connection to: Northwestern, my alma mater; and University of Michigan, where I was teaching," Thakor says. "He was admitted to all three, and I thought he was leaning toward Northwestern. But he came to St. Louis for a three-day visit, and they did such a great job recruiting him that he came back saying he definitely wanted to go to Wash U. So, he made his decision to come here before I did, and it seemed that everything fell into place."

Richard has since graduated, moving on to pursue a master's degree in economics and finance at the London School of Economics, and Thakor's second son, Cullen, 19, is next in line for college.

Regardless of the influence his son might have had on his decision to come here, Thakor knows it was the right choice.

"One of the exciting things about being here has been the change and growth," he says. "I've been able to do things since I came here that I'm very pleased about — such as the M.S. in Finance program."

'A franchise player'

It was precisely because of Thakor's energy and reputation that Greenbaum recruited him. The two men have known each other since Thakor's time as a doctoral student at Northwestern University. Greenbaum was his thesis advisor.

"He hasn't changed since he was a graduate student," Greenbaum says. "He was indefatigable then, and he's indefatigable now. The level of energy, perseverance and focus that Anjan has is extraordinary, and he brings that to everything he does, whether it's his academic research, professional work or family life."

In order to express just how valuable an addition Thakor has been to Olin, Greenbaum uses a sports analogy:

"He's a franchise player," he says. "He's a builder; he helped build the finance department. In fact, all but a few of the finance professors are here because of Thakor. He's trained more Ph.D. students than anyone I know. His reputation is very strong in academic finance circles. He has

done a ton of consulting for businesses. And he loves research. The list of published articles and books that he's written is at least three times longer than mine."

Thakor admits that research brings him a tremendous amount of satisfaction. In fact, he says, it borders on an obsession.

"I grab every little opportunity I have to do it," Thakor says. "For me, research fulfills the same need that leisure or relaxation does for other people. A lot of people around me don't always understand that. But it's the essence of who I am. I think for most people, though, if they have a passion, they find a way to fit it in."

Football as a metaphor

Most of Thakor's recent research focuses on corporate finance and financial intermediation, which he says is mostly banking. Specifically, he focused on the issue of disagreement among economic agents who come together on transactions.

"In economics and finance, there is a dominant paradigm that everybody has the same beliefs, either at the outset of a transaction or after they've exchanged information. To a layperson, that might seem like a bizarre assumption, but it's become dogma within economics. There are some strands of economics where researchers are working with frameworks where that assumption is relaxed; where people have heterogeneous beliefs and that could lead to disagreement over optimal decisions, even when people have the same information and the same objective."

Thakor has taken this new paradigm and studied what the implications are in a variety of financial situations, such as what kinds of securities a firm will issue, or if a company should go public or private.

"Disagreement leads to an endogenous preference for control. If I know that you and I are going to disagree, then who controls the decision-making becomes very important to determine before the disagreement occurs. It has implications for capital structure, dividend policy, the choice of private versus public ownership, and other financial decisions. All of these things impinge on how control rights are allocated between managers and investors," Thakor says.

Another area of research that Thakor has been pursuing is the strategy of football. Yes, football.

Thakor did not grow up following the NFL, but, at some

point during his doctoral studies, he was introduced to the sport. Since then, he has been hooked.

"To call me a football fan is an understatement," Thakor says. "In my view, football is the most strategically complex sport ever devised by man. I don't think any other sport even comes close. On average, you have 65 plays on defense, 65 plays on offense, or 130 opportunities to coach. What you do on Play 1 is going to affect how the other team reacts if you do the same play later in the game."

Thakor has managed to combine his passion for football with that for research. He is conducting long-term research with colleague Barton Hamilton, Ph.D., the Robert Brookings Smith Distinguished Professor of Entrepreneurship, to test his hypotheses on what makes for optimal strategies. They've been collecting data that will enable them to compare what theory says the optimal strategy is with what a team actually did.

"We're hoping to publish this in a good economics journal, where we talk about how football is a metaphor for the optimality of economic decision-making in the face of uncertainty," Thakor says.

People might scoff at the idea of merging economic research with football — but they don't know Thakor, a man whose energy level is so intense that watching a game of football is equivalent to spending a day immersed in research.



The Thakor family (clockwise, from left): Anjan V. Thakor, Ph.D.; sons Cullen, 19, and Richard, 23; wife, Serry.

Anjan V. Thakor

Titles: The John E. Simon Professor of Finance and senior associate dean of the Olin Business School

Family: wife, Serry; sons Richard, 23, and Cullen, 19

Personality flaw: Impulse shopper. Thakor bought a house on spec in Estes Park, Colo., after only three days of house hunting. Why? He and his family fell in love with the town a number of years ago when they wound up spending the night there while driving home from a conference in Wyoming. What was to be a one-night stopover turned into a multiday vacation. It then became a family tradition to spend several days in Estes Park every year. Twelve years ago, Thakor solidified his connection to Estes Park by buying a house. Eventually, he and his son Richard learned to ski.