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Record

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Washington University in St. Louis

Generation gap?

Seniors don't always get the joke, study shows

BY JENNIE IVERSON

It's no laughing matter that older adults have a tougher time understanding basic jokes than do younger adults.

It's partially due to a cognitive decline associated with age, according to University researchers Wingyun Mak, a graduate student in psychology in Arts & Sciences, and Brian Carpenter, Ph.D., associate professor of psychology.

Humor comprehension in older adults functions in a different fashion than humor comprehension in younger adults. The researchers studied older adults from a University subject pool as well as undergraduate students.

The subjects participated in tests that indicated their ability to complete jokes accurately, as well as tests that indicated their cognitive capabilities in areas of abstract reasoning, short-term memory and cognitive flexibility.

Overall, older adults demonstrated lower performance on both tests of cognitive ability as well as tests of humor comprehension than did younger adults.

"However, just because you're an older adult does not mean that you can't understand humor. All hope is not lost," Mak said. "This is just the first step in understanding how humor comprehension functions in older adults."

There are likely a multitude of factors, such as previous experiences, preferences and personality that also contribute to how well someone understands different types of humor.

The hope, according to the researchers, would be that this study and future research would allow researchers to gain a greater understanding of the relationship between cognition and humor comprehension. Perhaps down

the line, this knowledge may inform the way humor is integrated into programs targeted at improving the quality of life for older adults.

The paper, published in the *Journal of the International Neuropsychological Society*, was based on the theory that humor comprehension is a result of resolving incongruities — resolving the conflict between the expected and the actual, which requires a combination of cognitive skills. As adults age, they experience cognitive declines that the researchers indicate affect their ability to comprehend humor.

Joke with four endings

The measure used, the Joke and Story Completion Test, was developed by Hiram Brownell in 1983. A joke stem was presented with four different endings including the correct humorous ending; a humorous nonsequitur — an ending that does not make sense with the joke stem but is funny in and of itself; an unhumorous straightforward answer; and an unhumorous, unrelated nonsequitur.

The correct "funny" answer required that the participant integrate the three different cognitive measures tested in the study — abstract reasoning, short-term memory and cognitive flexibility.

Previous researchers have attributed some of the age-related deficits in humor comprehension to deficits in frontal lobe-mediated abilities. Mak and Carpenter's research supports this claim.

In addition, Mak and Carpenter added an element previously untested in humor comprehension studies — they included both a nonverbal joke completion test that structurally mirrored the verbal joke completion measure, allowing them to compare between

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Take me to the river Bill Rosser, a biology teacher from Fayetteville, Ark., and Barbara Schaal, Ph.D., the Spencer T. Olin Professor of Biology in Arts & Sciences, gather aquatic invertebrates from a pond at Tyson Research Center during the ecology component of the inaugural Life Sciences for a Global Community summer institute, held at various parts of campus July 8-27. Schaal is principal investigator of the National Science Foundation-funded institute, which provides teachers across the nation the opportunity to earn a master's degree at no cost. The institute includes two summers (three weeks each) in residence at WUSTL and continues during the subsequent two academic years through online courses. Partnering with WUSTL in the institute are the St. Louis Public Schools, Monsanto Co., Pfizer Inc., the Missouri Botanical Garden and the Donald Danforth Plant Science Center.

Mouse model lung transplant could pave way for preventing rejection

BY CAROLINE ARBANAS

Lung transplants have been performed successfully for more than 20 years in humans but never before in mice — until now.

School of Medicine surgeons have developed the first mouse model of lung transplantation, and they're hoping it will help explain why the success of the procedure in humans lags far behind other solid organ transplants.

Ultimately, the mouse model could pave the way for developing new therapies to prevent lung transplant rejection — a major problem that limits the long-term success of the procedure.

The mouse model is described in the June issue

of the *American Journal of Transplantation*.

Only about 45 percent of lung transplant patients are still alive five years after surgery, according to the U.S. Organ and Procurement and Transplantation Network. This compares with five-year survival rates of about 70 percent for heart and liver transplants and about 80 percent for kidney transplants. About 1,000 lung transplants are performed each year in the United States.

"The high failure rate of lung transplants is a huge problem," said lung transplant surgeon Daniel Kreisel, M.D., Ph.D., assistant professor of surgery and lead investigator of the research. "Unlike other organs, lungs are constantly exposed to bacteria and viruses in the environment, and we think this exposure increases the risk of chronic rejection and the eventual failure of the organ."

"The mouse model will allow us to understand

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Kreisel

The origins of human bipedalism

BY NEIL SCHOENHERR

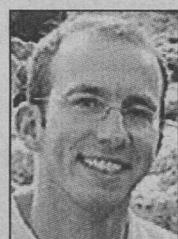
While no one has an authoritative answer, anthropologists have long theorized that early humans began walking on two legs as a way to reduce locomotor energy costs.

In the first study to fully examine this theory among humans and adult chimpanzees, published in the July 23 issue of *Proceedings of the National Academy of Science*, researchers have found that human walking is around 75 percent less costly, in terms of energy and caloric expenditure, than quadrupedal and bipedal walking in chimpanzees.

That energy savings could have provided early hominids

with an evolutionary advantage over other apes by reducing the cost of foraging for food.

Conducted by Herman



Pontzer

Pontzer, Ph.D., assistant professor of anthropology in Arts & Sciences; Michael Sokol of University of California, Davis; and David Raichlen of the University

of Arizona, the study used treadmill trials to analyze walking energetics and biomechanics for adult chimpanzees and humans.

The only other research study on chimpanzee locomotor cost, conducted in 1973, used juvenile chimpanzees, which have differ-

ent locomotor mechanics and costs than adults. The team also examined the early hominin fossil record, which it found to include predicted changes consistent with lower energy cost — longer hind legs compared to body mass and structural changes to the pelvic bone allowing for more upright walking.

Analysis of these features in early fossil hominins, coupled with analysis of bipedal walking in chimpanzees, indicate that bipedalism in early, ape-like hominins could indeed have been less costly than quadrupedal knucklewalking.

"Walking upright on two legs is a defining feature that makes us human," Pontzer said. "It distinguishes our entire lineage from all other apes."

Pedestrian overpass to be completed by mid-October

Metro and contractor Tarlton Corp. began Phase One construction Aug. 6 to complete the pedestrian overpass that connects the Danforth Campus to Ackert Walkway over Forest Park Parkway.

Scheduled completion of the first phase of construction is Aug. 24, and additional work will continue through mid-October.

During Phase One construction, the pedestrian overpass will be closed from 7 p.m.-5 a.m. nightly, except Friday and Saturday evenings.

Construction activities will occur during the day and overnight. During the inaccessible period, it is asked that pedestrians use the crossings at Trinity/Throop Drive; Skinker Boulevard

Parkway closing

Forest Park Parkway will be closed from Skinker Boulevard to Big Bend Boulevard from 7 p.m.-5 a.m. Aug. 12-17 and Aug. 19-24.

or Big Bend Boulevard.

Construction lights will be required for the evening work and construction noise should be anticipated. Phase One work will require evening lane restrictions on Forest Park Parkway, and the Parkway will be closed from Skinker to Big Bend from 7 p.m.-5 a.m. Aug. 12-17 and Aug. 19-24.

For complete information, go online to news-info.wustl.edu/news/page/normal/8880.html.

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Taber named Kessler professor in biomedical engineering June 5

By BARBARA REA

On June 5, Larry A. Taber, Ph.D., became the first Dennis and Barbara Kessler Professor of Biomedical Engineering (BME) in the School of Engineering.

The ceremony, which capped the department's 10th anniversary celebration, was in Uncas A. Whitaker Hall.

The Kesslers, both alumni of the University, are committed to biomedical engineering.

"We expect that some of the greatest medical achievements on the horizon will be in biomedical engineering," Chancellor Mark S. Wrighton said. "Thanks to the great generosity of friends such as Dennis and Barbara Kessler, and superb faculty and students, Washington University will be at the forefront of those achievements, ensuring life-changing advancements well into the future."

Taber is a founding member of the Department of Biomedical Engineering. His contributions to research and teaching include insights into understanding the role of mechanical factors that drive heart and brain development.

Previously, he worked on cochlear mechanics and the mechanics of crash injuries. His mathematical models for cardiac growth and morphogenesis represent pioneering work in better understanding congenital heart disease.

He is now beginning to apply similar approaches to studying the complex problem of brain folding.

Engineering dean Mary San-salone, Ph.D., praised Taber's contributions to the University and to the profession.

"The Department of Biomedical Engineering has achieved remarkable success in its first 10 years, which is largely due to our eminent faculty such as Larry," she said. "Since the beginning, he has been an outstanding colleague who recognized the immense contributions that engineering can make to medical research."

"His work has contributed to important advances and a deeper biomechanical understanding of some of the most critical areas in embryonic development."

Before joining the faculty in 1997, Taber was a professor of mechanical engineering at the University of Rochester. From 1978-1982, he was a research engineer for the biomedical science department at General Motors Research Laboratories. He is a fellow of the American Institute for Medical and Biological Engineering, and a fellow of the American Society of Mechanical Engineers; in 2005, Taber received ASME's Richard Skalak Best Paper Award.

Taber's research has appeared in approximately 70 journal articles and has been supported by grants from the National Institutes of Health and the National Science Foundation. Additionally, he has published the book "Non-linear Theory of Elasticity: Appli-

cations in Biomechanics."

His contributions to professional journals include having served as associate editor for the Journal of Biomechanical Engineering from 1996-2001. He is an associate editor for Applied Mechanics Reviews.

Frank Yin, M.D., Ph.D., the Stephen F. and Camilla T. Brauer Distinguished Professor of Biomedical Engineering and chair of the department, is a longtime colleague of Taber's.

"Larry and I have known each other for many years and we share common backgrounds and interests," Yin said. "We both started as aeronautical engineers who became involved in biomechanics. He has been an integral and key contributor to the department since Day One."

"His passion for mechanics and its application to important biomedical problems of embryonic development are unparalleled and help distinguish our department as one of the best in this field. I am pleased he is receiving this well-deserved recognition."

Dennis and Barbara Kessler were inspired to give this major gift to encourage progress in medical research. Their hope is that research such as Taber's will one day eliminate neurological genetic disorders such as dystonia, which afflicts their son.

Their dedication to supporting research includes being active in the Dystonia Medical Research Foundation (DMRF) for 26 years. Dennis is a past president and continues to serve on its board and Barbara leads the organization's awareness campaign. They are founding members and are still active in the Chicago chapter of the DMRF.

Barbara graduated from the University with a bachelor's degree in sociology in 1963.

Dennis earned a bachelor's degree in industrial engineering in 1960 and a master's degree in engineering administration in 1964, both from the University. For 34 years, he was an executive with Fel-Pro Inc., a company that manufactured and distributed gaskets, engine parts and industrial chemicals for the automotive industry.

Barbara also worked for Fel-Pro, writing for its magazine and planning special events. She is a longtime supporter of her congregation and the Art Institute of Chicago.

Now president of his own business, Kessler Management Co., Dennis provides leadership, management and succession planning expertise for family businesses.

In addition, he is a principal with Family Business Innovations. Dennis serves on the University's Engineering's National Council and is a member of the Chicago Regional Cabinet.

The Kesslers also support the Scholars in Engineering program. They live in Highland Park, Ill.



Larry A. Taber, Ph.D., is flanked by Barbara and Dennis Kessler upon his installation as the first Dennis and Barbara Kessler Professor of Biomedical Engineering in the School of Engineering.



Hakuna matata Carolina Reiter, a 2007 WUSTL graduate, auditions for Celise Hicks (right), dance supervisor, and Jennifer Rudin Pearson, director of casting and talent development for Disney Theatrical Productions Ltd. Representatives of the Disney casting call were on the Danforth Campus July 20 in the A.E. Hotchner Studio Theatre in Mallinckrodt Student Center to audition hopeful talents for the touring productions of the stage adaptations of "The Lion King," "The Little Mermaid" and "Mary Poppins."

Blankenship named Markey professor

By BARBARA REA

Robert E. Blankenship, Ph.D., professor of biology and of chemistry, both in Arts & Sciences, was installed as the first Lucille P. Markey Distinguished Professor March 6 in Holmes Lounge.

"Through the generosity of the Lucille Markey Charitable Trust, we have made great strides in biological and medical research," Chancellor Mark S. Wrighton said. "Markey's gifts to the University, of which this professorship is the most recent, are helping us make great scientific advancements and provide our researchers and their programs with support to sustain their work well into the future."

Blankenship's research program is primarily concerned with understanding the mechanism of the energy-storing reactions in photosynthetic organisms, as well as understanding the origin and early evolution of photosynthesis. Photosynthesis transforms light, carbon dioxide and water into chemical energy in plants and some bacteria.

The chemical reactions leading to long-term energy storage in photosynthetic systems take place within the membrane-bound reaction center complex and an associated group of proteins that make up an electron transport chain. One of the central goals of Blankenship's research is to identify the molecular parameters responsible for the fact that essentially every photon, or light packet, absorbed by the system leads to stable products.

The emergence of photosynthesis and other metabolic processes, such as nitrogen fixation, had profound effects on the evolution of advanced life on Earth. Blankenship's analysis of whole bacterial genomes has shown that these metabolic processes have complex evolutionary histories. Using a combination of genomic, molecular evolution techniques and biochemical analysis, he also has identified and characterized previously unknown enzyme complexes with novel activities.

A new research interest for Blankenship is scientific literacy



Robert E. Blankenship, Ph.D. (left), is installed as the first Lucille P. Markey Distinguished Professor in Arts & Sciences in a Holmes Lounge ceremony that included Chancellor Mark S. Wrighton (center) and Edward S. Macias, Ph.D.

with an emphasis on understanding the attitudes and preconceptions that non-science students have about science and how those ideas change upon exposure to a course in liberal arts chemistry, as well as the special challenges involved in biochemistry education.

"Having Bob Blankenship in our departments of biology and chemistry brings both groups closer together. He has a true dual appointment in Arts & Sciences with labs and students in both departments. This shows a strong commitment to interdisciplinarity that is one of our hallmarks," noted Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences. "He is internationally known in the field of biochemistry and we are fortunate to have him on our faculty."

Blankenship taught at Arizona State University for 21 years before coming to Washington University in 2006. Prior to that, he was on the faculty of Amherst College for six years. He was a postdoctoral fellow at the University of Washington from 1976-79, and an assistant professor at the American University of Beirut from 1975-76.

He earned a doctorate from the University of California, Berkeley, in 1975 and a bachelor's degree in 1970 from Nebraska Wesleyan University.

The Lucille P. Markey Charita-

ble Trust established this distinguished professorship to commemorate Markey and her interest in basic medical research. Born Lucille Parker in 1896, her lifelong passion was horse breeding and racing. In 1952, she married Admiral Gene Markey, a novelist, screenwriter and film producer. Her desire to reduce suffering from physiological disability led to the establishment of the Lucille P. Markey Charitable Trust.

Since its inception in 1984, the Lucille P. Markey Charitable Trust has provided substantial support to the University. In addition to the professorship, the Trust supports the pioneering Markey Special Emphasis Pathway in Human Pathology, a two-year program offered by the Division of Biology and Biomedical Science, administered jointly by Arts & Sciences and the School of Medicine. The Pathway program offers graduate and postdoctoral fellows the ability to probe deeper into the nature of disease.

Among the trustees for the Lucille P. Markey Charitable Trust is Washington University emeritus trustee and past chair of the School of Medicine's National Council Robert J. Glaser, M.D. He joined the Markey Trust in 1984 as director of medical science and trustee. A strong, personal supporter of the University, he established the Dr. Robert J. Glaser Distinguished University Professorship in 2001.

School of Medicine Update

Patient-friendly outpatient orthopedic center opens

BY BETH MILLER

Modern, sleek, streamlined and filled with soothing botanical art are descriptions normally associated with a contemporary art gallery rather than with an outpatient medical building.

But the Washington University Orthopedics and Barnes-Jewish Hospital Outpatient Orthopedic Center in Chesterfield easily meets all of those descriptions.

The first surgery and patient visits began the last week in July at the building co-operated by Washington University Orthopedics and Barnes-Jewish.

The 60,000 square-foot facility at 14532 S. Outer Forty Drive offers comprehensive, one-stop outpatient care, including physician offices, 36 exam rooms, four surgery suites, diagnostic radiology suites, and rehabilitation and hand therapy services. It will be the department's primary location for sports medicine, hand surgery, shoulder surgery, foot and ankle surgery, and physical medicine and rehabilitation.

"This facility is designed for patients' comfort, convenience and easy accessibility," said Richard H. Gelberman, M.D., the Fred C.

Reynolds Professor and head of the Department of Orthopedic Surgery and chief of orthopedic surgery at Barnes-Jewish. "Patients will have access to the latest technologically advanced orthopedic care that will allow them to be admitted and discharged on the same day."

The two-story center, which includes space to support future expansions, is designed to be operationally efficient. It is certified by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System for using environmentally sustainable construction and received an award from AmerenUE recognizing green building practices and energy and environmental conservation.

All surgeons, physiatrists, radiologists and anesthesiologists at the new center will be Washington University physicians. Barnes-Jewish Hospital will manage the ambulatory surgery center. Barnes-Jewish West County Hospital will manage the rehabilitative service and outpatient physical therapy, and hand services will be provided by occupational therapists from the Rehabilitation Institute of St. Louis' Milliken Hand Rehabilitation Center.

The facility expands orthopedic



A fish-eye photo of the Washington University Orthopedics and Barnes-Jewish Hospital Outpatient Orthopedic Center in Chesterfield, which provides patients with a one-stop location for orthopedic needs.

surgery and sports medicine services previously located at 1020 N. Mason Road, near Barnes-Jewish West County Hospital. The services offered in the new location complement the department's existing clinical practice at the Cen-

ter for Advanced Medicine and Barnes-Jewish Hospital, where spinal, joint replacement, trauma and orthopedic oncology services are based.

Charles A. Goldfarb, M.D., assistant professor and medical di-

rector of the new center said outpatients have different needs than inpatients.

"We built this building with that in mind, providing all the services patients need under one roof," he said.

W. Donald Gay appointed to Hawes professorship

BY GWEN ERICSON

WDonald Gay, D.D.S., has been named the Christy J. and Richard S. Hawes III Professor at the School of Medicine.

Chancellor Mark S. Wrighton and Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, made the announcement.

Before their deaths, the Hawes established the professorship in honor of, and in gratitude to, Gay, who directs the Division of Maxillofacial Prosthetics in the Department of Otolaryngology. Christy Hawes was one of Gay's patients.

"Christy and Dick Hawes were ardent supporters of the University," Wrighton said. "We are grateful for their support and proud that their name is now linked to the Department of Otolaryngology and to work that lessens the sometimes devastating social impact of diseases and injury of the head and neck."

The Hawes came from a long line of well-known St. Louis families. Christy was a direct descendant of explorer William Clark and granddaughter of one of the founders of International Shoe Co. Richard's father was an investment banker and financial adviser, and his mother was granddaughter of the founder of Lemp Brewing Co.

Richard was a plastics manufacturer and civic leader. Over a 40-year span, he turned KSH, a small plastics-manufacturing firm, into a multimillion-dollar international enterprise. Longtime supporters of the University, the Hawes were Life Benefactors of the William Greenleaf Eliot Society. Richard died in 2005, and Christy died in 2006.

Gay directs the maxillofacial prosthetics laboratory at the

School of Medicine, which works to rebuild faces and jaws that have been affected by trauma, birth defects or disease. He and technician Ann Vitale create the full range of maxillofacial, or facial, and oral prostheses. This includes artificial eyes, ears and noses as well as dental devices.

Gay and Vitale work with patients of all ages. "We take kids who don't feel normal, and we help them become normal," said Gay. "And we help adults who can't be normal adults — they can't work or socialize — and we make it possible for them to resume those activities."

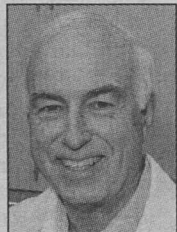
Gay earned a D.D.S. degree from the University of Tennessee in 1966. After five years as a general dentist in the U.S. Army, Gay elected to specialize in prosthodontics, which includes crowns, bridges, dentures and partial dentures, and maxillofacial prosthetics. He completed a residency in prosthodontics at the Walter Reed Army Medical Center in 1975 and a residency in maxillofacial prosthetics at the National Naval Medical Center in 1977.

After completing a tour of duty as chief of the Maxillofacial Prosthetics Service at Walter Reed, Gay joined the University's School of Dental Medicine as chairman of the Department of Maxillofacial Prosthetics in 1979.

He has 25 years of active and reserve duty with the U.S. Army Dental Corps. He commanded the 5506th Dental Detachment of the U.S. Army Reserve, based in St. Louis, retiring with the rank of colonel.

He received the Meritorious Service Medal for Heroism and the "A" Proficiency Designator for Professional Excellence from the U.S. Army.

Gay transferred to the Department of Otolaryngology in 1991 when the School of Dental Medicine closed. In addition to his work in the prosthetics lab, he is on staff at Barnes-Jewish and St. Louis Children's hospitals. He is a member of numerous professional societies and organizations.



Gay

Ethiopian medical students to benefit from used textbooks

BY BETH MILLER

Several student groups and administrators at the School of Medicine and residents at Barnes-Jewish Hospital have collected nearly 500 medical textbooks to help their counterparts in Ethiopia.

The textbooks will replace outdated books at the medical school at Ethiopia's Addis Ababa University, the main teaching hospital in the country's capital city.

Rahel Nardos, M.D., a native of Ethiopia who recently completed a residency in obstetrics and gynecology at Barnes-Jewish, spent a week working in Addis Ababa University's hospital last year. As she talked with residents there, she noticed that they used photocopies of outdated material instead of textbooks.

Nardos asked if they would be interested in newer textbooks, and her idea was born.

"It's such a simple thing and doesn't ask too much of people," Nardos said. "People here liked the idea because they know that the books would be well-used and appreciated. The students there are smart and want to practice medicine the right way."

Nardos reached out for help from her husband, Damien Fair, a fourth-year doctoral student in neuroscience and a member of the Division of Biology and Biomedical Sciences' Association of Black Biomedical Graduate Students (ABBGS), which quickly became a co-sponsor of the ef-

fort along with the Center for Diversity and Cultural Competence at Barnes-Jewish Hospital, the Chancellor's Graduate Fellowship Program, the Office of Diversity Programs and the Bar Italia restaurant.

"We already had the passion and the brainpower," said Tracy F. Nicholson, a fourth-year doctoral student in molecular microbiology and an ABBGS member. "We just had to get it going."

Over several weeks and through a party at Ethiopian-owned Bar Italia, medical students, residents, graduate students and faculty donated their used books published since 2000 at several drop sites, including the Barnes & Noble Bookstore on the medical school's campus.

The group also collected about \$2,800 to ship the books to Addis Ababa, including cash from the Office of Student Affairs and the Office of Diversity.

The UPS store in the Central West End pitched in by packing the books in cartons and donating shipping materials and a portion of the shipping costs.

The Center for Diversity and Cultural Competence at Barnes-Jewish Hospital accepted donations for the effort.

"It was a good cause to collect books for a library in a country

that really needs the support we could offer them," said Brenda Battle, director of the center. "I knew it would enable a lot of people to participate and dovetail with the work Washington University and Barnes-Jewish are doing to promote diversity."

Also helping out was Rochelle Smith, manager of Diversity Programs and Community Outreach in the Division of Biology and Biomedical Sciences (DBBS), which provides financial support for ABBGS.

"Although they had a limited budget, they have a passion for philanthropy and wanted to do something with a big impact and help as many people as they could," Smith said.

A few days after the books were packed into 24 cartons and were ready to ship, U.S. postage rates changed and nearly doubled the \$2,100 the students had budgeted for shipping. Although about two-thirds of the books have been shipped to date, the remainder must wait until the group raises at least \$2,000 or finds alternative sources of getting the books to Ethiopia.

The group is still accepting donations through the Center for Diversity and Cultural Competence.

Nardos and Fair have headed to Addis Ababa University for her one-year fellowship in obstetrics and gynecology. She said she and Fair will be there to receive the remaining books and see firsthand the books making a difference.



Nicholson

Cancer research grant requests due Sept. 13

Applications are now being accepted for awards from the University's American Cancer Society Institutional Research Grant (ACS-IRG). Applications are due Sept. 13.

The program, which provides seed money for new projects initiated by junior faculty, provides one-year awards of up to \$20,000.

Eligibility is limited to instructors and assistant professors who are within six years of their first independent research or faculty appointment. Individuals who have previously received ACS-IRG awards or major grants, such as R01 or R21 grants, from the

National Institutes of Health, the National Science Foundation, the American Cancer Society or Department of Veterans Affairs are not eligible. Applicants must be U.S. citizens, non-citizen nationals or have proof of permanent residency at the time of application.

For more information and for further application requirements, visit the Siteman Cancer Center website at <http://www.siteman.wustl.edu/internal.aspx?id=276> or contact Kyle Neeley at neelekyk@ccadmin.wustl.edu or Lee Ratner, M.D., Ph.D., committee chair, at lratner@im.wustl.edu.

PAD's 2007-08 season will travel the globe

BY LIAM OTTEN

From classic comedy to cutting-edge drama to original works by students and faculty artists, the Performing Arts Department (PAD) in Arts & Sciences' 2007-08 season has something for everyone.

"This year's season presents a series of voyages to different times and different places," said Robert Henke, Ph.D., chair and associate professor in the PAD. "We will travel to places as diverse as rural Kentucky, Nigeria, the world of radio during wartime America, the Renaissance city, 18th-century England and the different places of the imagination where dance takes us."

"Through theater and dance, we are able to see the world and ourselves in different ways."

Cindy Kahn, assistant to the chair, notes that auditions for the full theatrical season will take place at 7 p.m. Aug. 30-31. Auditions for Washington University Dance Theatre (WUDT), the department's major dance showcase, will take place at 7 p.m. Sept. 4.

"Auditions are open to the entire University community," Kahn explained. "Everyone is given a chance, not just PAD majors. And for those who don't want to be in the spotlight themselves, we also need to fill all the design and technical positions — stage managers, scenic designers, costume designers, backstage crew, sound designers and lighting designers. Everyone can participate."



This year's Washington University Dance Theatre presentation will be "rEvolutions," from Nov. 30-Dec. 2.

Pre-registration for auditions is required. Those interested can sign up at the PAD office in Room 312 of the Mallinckrodt Student Center, 6445 Forsyth Blvd. For more information, call

935-5858 or stop by the department's annual welcome party, which will be from 4-6 p.m. Aug. 28 in Mallinckrodt's A.E. Hotchner Studio Theatre. The PAD season will open

Oct. 5-14 with "The 1940s Radio Hour," Walton Jones' nostalgic ode to the medium's golden age. Directed by William Whitaker, senior lecturer in drama, the story follows a group of radio has-beens and wannabes — the jaded producer, the aspiring delivery boy, the hot-tempered torch singer — all attempting to make it big on the "Mutual Manhattan Variety Cavalcade."

The season continues Nov. 9-18 with "Measure for Measure," one of Shakespeare's most confounding "problem plays." Directed by Annamaria Pileggi, senior lecturer in drama, the plot centers on the plight of Claudio — a young man condemned to death for making his betrothed, Juliet, pregnant out of wedlock — but also explores the nature of power, the relationships between men and women and the battle between justice and mercy.

Next up is "rEvolutions," this year's WUDT concert, Nov. 30-Dec. 2. Spanning styles of dance that range from ballet to modern to West African, "rEvolutions" will feature student dancers performing professionally choreographed works by both faculty and visiting artists. Cecil Slaughter, senior lecturer in dance, serves as artistic director.

Andrea Urice, senior lecturer in drama, will direct Naomi Wallace's "The Trestle at Pope Lick Creek" Jan. 24-27, which explores a small town clutched within the grip of the Depression. Jeffery Matthews, senior lecturer in drama, will direct "She Stoops to Conquer," the classic 18th century comedy by Oliver Goldsmith, Feb. 22-March 2. From March 28-30, the PAD will present the third biannual "Young

Choreographer's Showcase," which features original choreography by student artists.

The PAD season concludes April 18-27 with Nobel Laureate Wole Soyinka's "The Lion and the Jewel," directed by Ron Himes, the Henry E. Hampton Jr. Artist-in-Residence as well as founder and producing director of The St. Louis Black Repertory Company. This light-hearted tale examines colonization, culture and gender roles through the story of Lukunle, a Westernized teacher, and his courtship of Sidi, whom he encourages to adopt modern ways.

Tickets to all shows are \$15, or \$9 for students, children, seniors and Washington University faculty and staff. Subscriptions to three or more events are available for \$12 per show. In addition, the PAD offers a special "season pass" to all seven shows for \$54.95. A current valid Washington University ID is required. The registration deadline is Sept. 28.

In addition to the regular season, renowned dramaturg Michael Bigelow Dixon, director of studio theater programming and associate artist at the Guthrie Theater, will lead staged readings of three student plays Sept. 25-26 as part of the A.E. Hotchner Playwriting Festival.

The festival will include two full-length plays — "Intelligent Life" by alumna Lauren Dusek (LA '07) and "Chosen" by senior Noga Landau, both finalists in the A.E. Hotchner Playwriting Competition — as well as one short, "Yelling Man" by senior Lee Osorio.

For more information about the PAD season or to order tickets, call the Edison Theatre Box Office at 935-6543.

U-Pass program enhancements announced

On the first day of June, the U-Pass program at the University turned one year old.

Seems like people are much appreciative of that first year of existence.

The distribution has averaged about 15,000 to the University community each semester, and bus rides numbered close to 600,000 trips. MetroLink usage was nearly off the charts with more than 1.3 million trips taken.

But as with anything new, there is always room for improvement.

After receiving much feedback, the Office of Parking and Transportation Services has made some minor changes to both the distribution and usage of the U-Pass.

After negotiating with Metro, it was deemed possible to allow for an annual pass instead of having to renew passes each semester.

This will make the process much more convenient

for employees, but could also create the problem of the magnetic strip on the U-Pass wearing out for bus users since the pass will be valid for the entire year. If this should happen, employees should return the pass to Parking & Transportation Services for an exchange at no cost.

Also, because of program costs, it is no longer possible to receive a U-Pass via the U.S. mail. Instead, campus mail is an option, or there is a distribution center located on both the Danforth and Medical campuses.

And the survey included with the renewal request form is offered to help better meet the needs of the University community. It's because of feedback from these forms that annual passes are now offered. Also, Metro sees and responds accordingly to much of the feedback provided.

For more information on the U-Pass, go online to parking.wustl.edu/upass.htm.

Bermúdez named director of Center for Programs

BY GERRY EVERDING

José Luis Bermúdez, Ph.D., professor of philosophy in Arts & Sciences, has been named director of the University's Center for Programs effective July 1, announced 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 pleased that Jose is assuming leadership of the Center for Programs," Macias said. "His



Bermúdez

creativity, ability to work with many different groups and desire to advance Arts & Sciences have combined to advance the Philosophy-Neuroscience-Psychology program in exciting new directions, and I am confident that the same enthusiasm will mean great things for the Center for Programs. We couldn't have a better spokesperson for interdisciplinary teaching and scholarship than José Bermúdez."

Established in 2005, the Center for Programs is designed to promote interdisciplinary teaching and research in Arts & Sciences. For the past two years, Center programs have been shaped by founding director Gerald Early, Ph.D., the Merle Kling Professor

See Bermúdez, Page 6

University Events

'Horse Series' • Freedom from Smoking

"University Events" lists a portion of the activities taking place Aug. 9-28 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).

Reporting in Non-for-profit 501(c)3 Organizations." Cost: \$105. Anheuser-Busch Hall, Bryan Cave Moot Courtroom. To register: 739-6811.

Wednesday, Aug. 15

4 p.m. Ophthalmology & Visual Sciences Seminar. "PKC: Sensing Oxygen in the Lens." Delores Takemoto, prof. of biochemistry, Kan. State U. Maternity Bldg., Rm. 725. 362-3315.

Thursday, Aug. 16

4 p.m. Ophthalmology & Visual Sciences Seminar. "Defining the Biology of Putative Angiogenic and Antiangiogenic Molecules: A Tale of Two Factors, PEDF and DII4." Stanley Wiegand, v.p. of cardiovascular and ophthalmology research, Regeneron Pharmaceuticals Inc. Maternity Bldg., Rm. 725. 362-3315.

Thursday, Aug. 23

4 p.m. Chemistry Lecture. Bayer Distinguished Lecture. "A Multi-dimensional Approach to Molecular Recognition in Chemistry and Biology: Towards New Therapies Against Infectious Diseases." François Diederich, lab. of organic chemistry, Swiss Federal Inst. of Technology, Zurich. (Reception follows.) Lab Sciences Bldg., Rm. 300. 935-4108.

Friday, Aug. 24

9:15 a.m. Pediatric Grand Rounds. Annual Dodge Lecture. "The Neurotrophic Unit:

Signaling to Make, Maintain, and Monitor Circuits." William Mobley, chair of neurology, prof. of pediatrics and neurology, Stanford U. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Chemistry Lecture. "Acetylene and Fullerene Scaffolding: Carbon-rich Advanced Materials." François Diederich, lab. of organic chemistry, Swiss Federal Inst. of Technology, Zurich. Louderman Hall, Rm. 458. 935-4108.

Saturday, Aug. 25

7:30 a.m.-6:15 p.m. Radiology CME Course. "Images to Outcomes VII: Cardiovascular Imaging Nuclear Cardiology and Beyond." (Continues 7:45-10:30 a.m. Aug. 26.) Cost: \$350 for physicians, \$250 for allied health professionals. Sheraton St. Louis City Center, 400 S. 14th St. To register: 362-6891.

Tuesday, Aug. 28

4:30 p.m. Freedom from Smoking Class. Continues weekly through Oct. 3. Farrell Learning & Teaching Center, Rm. 214 A&B. To register: 362-6961.

Music

Thursday, Aug. 9

8 p.m. Summer Jazz at Holmes. Todd Mosby Group. Ridgley Hall, Holmes Lounge. 935-4841.

Exhibits

"Horse Series." Abstract images of Clydesdale horses by Robert Boston, School of Medicine photographer. Through fall. Farrell Learning and Teaching Center, 520 S. Euclid Ave., Lvl. 2.

Lectures

Monday, Aug. 13

8:30 a.m.-4 p.m. Center for the Application of Information Technology Two-Day Program. "Business Finance and Budget Fundamentals for IT Professionals." (Continues 8:30 a.m.-4 p.m. Aug. 14.) Cost: \$830; reduced fees available for CAIT member organizations. CAIT, 5 N. Jackson Ave. To register: 935-4444.

Tuesday, Aug. 14

8:30 a.m.-noon. MBCH Professional Development Institute Workshop. "How to Be Accountable with Records and

Freund Fellows selected for academic years 2007-08 and 2008-09

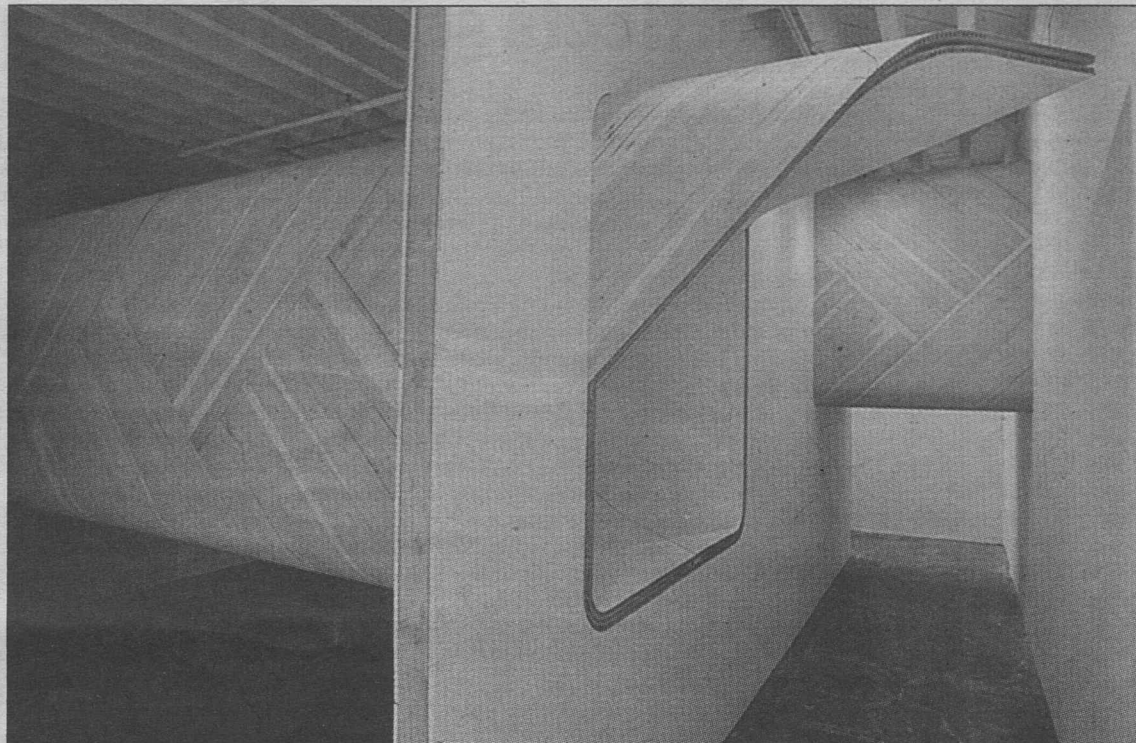
The Saint Louis Art Museum and the Sam Fox School of Design & Visual Arts have announced the selection of artists Sarah Oppenheimer and Claudia Schmacke as Henry L. and Natalie E. Freund Teaching Fellows for academic years 2007-08 and 2008-09 respectively.

The Freund Fellowship consists of a yearlong residency in St. Louis, during which time fellows teach in the Sam Fox School's Graduate School of Art and create exhibitions for the Saint Louis Art Museum's Currents series.

Oppenheimer holds a bachelor's degree in semiotics from Brown University and an master of fine arts from Yale University, where she is assistant professor. Her work has been featured in solo exhibitions at the PPOW Gallery, Momenta Art and the Drawing Center, all in New York, and at Youkobo in Tokyo.

Her work has also been featured in group exhibitions at Galerie der Kunstler in Munich; Midway Contemporary Art in Minneapolis; Skulpturens Hus in Stockholm; and the American Academy of Arts and Letters in New York. She has received fellowships from the New York Foundation for the Arts (in the category of Architecture/Environmental Structures), the Japan Foundation, the Rema Hort Mann Foundation, the Sharpe Foundation, Yaddo and the Lower Manhattan Cultural Council.

Oppenheimer's work combines artistic practice with elements of performance and behavioral studies. For example, a project undertaken during a Japan Foundation Artist's Fellowship in Tokyo (and later realized as a video) studied the newspaper folding habits of subway commuters. Meanwhile, recent installations at PPOW and the Ameri-



"554-5251" (2006), an installation by Freund Fellow Sarah Oppenheimer. The Freund Fellowship consists of a yearlong residency in St. Louis, during which time fellows teach in the Sam Fox School's Graduate School of Art and create exhibitions for the Saint Louis Art Museum's Currents series.

can Academy of Arts and Letters have explored phenomenological studies involving the reconfiguration of interiors.

Reviewing the PPOW exhibition for "Art in America," critic Nancy Princethal explained, "In her first solo show at this gallery, Sarah Oppenheimer played up the drama of an entrance.

Using standard sheets of plywood cladding that she bent like heavy paper, Oppenheimer transformed the space literally wall to wall.

A waist-high, barrel-shaped plywood-covered barrier near the front door shunted visitors to a narrow corridor, one wall of which was punctured midway by that barrier, here revealed as a hollow whose terminus framed

part of a usually obscured window to the street. The payoff was a bracing glimpse of real life in what is otherwise a hermetically sealed interior, but Oppenheimer held it at arm's length — the plywood-covered column both let you see fresh air and sky and kept them at a distance, a surprisingly powerful visual tease."

Schmacke — who holds a bachelor's degree from Kassel University and a master of fine arts from the Kunstakademie Düsseldorf, both in Germany — creates works that are often site-specific or site related.

She has received a Lower Manhattan Cultural Council/World Trade Center residency as well as residencies from the Aldrich Museum in Ridgefield, Conn.; Smack

Mellon Studios in Brooklyn, N.Y.; and the Chinati Foundation in Marfa, Texas, among many others.

Schmacke's solo exhibitions have included numerous German venues, notably the Westfälisches Landesmuseum in Münster and the Kunstverein Drensteinfurt, as well as North Utstillingssted in Copenhagen and the Goethe Institut and Plane Space, both in New York.

Her work also has been featured in several international group exhibitions, including Projekt I Gamlebyen in Oslo, Norway, and the Lodz Biennial in Lodz, Poland.

Water is a recurring theme in Schmacke's videos and environmentally scaled installations. For

example, "Lights Spots," an installation of hundreds of clear plastic bags containing fluorescent-dyed water, absorbed ambient light during the day and glowed in black fluorescent light at night. For "Quintet for Washtubs," galvanized tubs were placed beneath water funnels suspended from the ceiling, creating an eerie concert of drips and echoes.

Reviewing one of Schmacke's exhibitions for "Art in America," the critic Gregory Volk commented, "As one watched all that water and air on its journey, it took on complex metaphorical significance, suggesting the circulatory system of the body or the phloem of plants, but also data moving through networks and, more implicitly gradations of experience, ranging from frantic to serene."

The Freund Fellowship is supported by the Henry L. and Natalie E. Freund Endowment Fund, which was established to support both the exhibition and acquisition of contemporary art at the Saint Louis Art Museum as well as the teaching of contemporary art principles in the Sam Fox School.

The search for 2007-08 and 2008-09 fellows was led by Michael Byron, associate dean of the College & Graduate School of Art; and Robin Clark, associate curator of contemporary art at the Saint Louis Art Museum.

The Saint Louis Art Museum is one of the nation's leading comprehensive art museums with collections that include works of art of exceptional quality from virtually every culture and time period. Areas of notable depth include Oceanic art, pre-Columbian art, ancient Chinese bronzes and European and American art of the late 19th and 20th centuries, with particular strengths in 20th-century German art.

Fall sports previews

Football

Head coach Larry Kindbom returns 62 letter-winners and 14 starters from last year's team, which won four of its last five games to post a 6-4 record.

Washington U., the eight-time University Athletic Association (UAA) champion, has posted 14 straight winning seasons dating back to 1993, the 17th longest streak in all NCAA divisions.

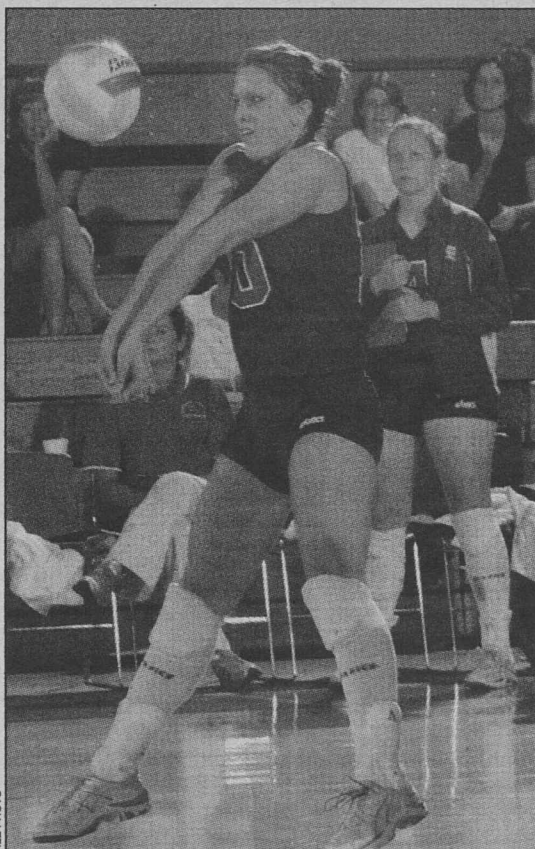
On offense, the Bears return five starters, including first-team all-UAA offensive lineman Scott Reigle. Senior center Kevin Brooks and junior right guard Dan Elliott also return on the line. Seniors Michael Casper, Joe Lubelski and Dan Cardone were the top three wide receivers last season for WUSTL.

The Bears return six starters on a defense that ranked third in Division III last season in total defense and 10th in rushing defense. Senior linebackers Michael Elliott and Tyler McSparin, both all-UAA honorees last season, lead the Bears' defense. Senior Evan Mayer and junior Tommy Bawden will start at defensive back, while senior Chris Rhodes and junior Brent Sensenich will look to fill the void up front.

Volleyball

The volleyball team posted a 38-2 record in 2006, making it to the national championship game. The Bears fell to Juniata College in the title match, but this year's squad has set its sights on winning the team's first national title since 2003.

Washington U. welcomes back 13 letterwinners from last year's squad. Reigning UAA Player of the Year Haleigh Spencer returns for her senior campaign, as does junior outside hitter Nikki Morri-



Haleigh Spencer returns for her senior season for the Bears, who went 38-2 last year and finished second in the NCAA Tournament. The Bears are seeking their first title since 2003.

son, an AVCA third-team All-America selection in 2006. The Red and Green also return both setters in junior Audra Janak and sophomore Vicki Blood.

The middle blocker position provides the biggest question mark for WUSTL heading into the season. Senior Emilie Walk will sit out the year because of a chronic back injury and Whitney Smith graduated in the spring, meaning the Bears have to replace both middles. Washington U. will look to junior Alli Alberts to step

up on the back row at defensive specialist, as four-year letterwinner Amy Bommarito graduated.

Cross country

The men's and women's cross country teams ended a successful 2006 campaign on a high note, with the women placing fourth at the NCAA Championships and the men finishing 25th. For the women's squad, it was the fourth time in five years they placed in the top five at the NCAA meet. The women's team also had two runners receive All-America accolades. Beth Herndon placed fifth (22:56) at the meet and Tricia Frisella finished 22nd (23:38). Frisella returns in 2007 for her senior season.

On the men's side, the Bears return senior Jesse McDaniel, who was a first-team all-UAA selection last year. McDaniel placed sixth overall (25:42.22) at the conference championship meet. Both the men's and women's teams finished in second place at the UAA Championships.

Men's soccer

The men's soccer team finished third in the conference and qualified for the NCAA Tournament

last season. It was the Bears' first postseason berth since 1999.

Head coach Joe Clarke returns 26 letter-winners from last year's team, hoping to build on the 12-4-2 campaign.

Senior backs Matt Hemphill and Elie Zenner will once again bolster the defense, a unit that allowed just nine goals. Zenner led the Bears in scoring, tallying six goals and two assists.

Sophomore John Smelcer, the UAA Rookie of the year will return in goal. his 0.53 goals against average in 2006 stands as the fourth-lowest in school history. The Bears also return sophomore John Hengel, who led the squad in points (15) on five goals and five assists.

Women's soccer

The Bears return 26 letter-winners and eight starters from the

2006 team, which tied the school record with 17 wins and advanced to the NCAA Sectionals.

Senior goalkeeper Carrie Sear and sophomore forward Caryn Rosoff were first-team all-UAA honorees last season. Sear posted a 17-3 record in the nets and set a school record with a 0.34 goals against average. Rosoff, the UAA Rookie of the Year, led the Bears in scoring last season with 12 goals and 27 points.

Sophomore back Libby Held, junior back Shirey Lane, senior midfielder Marin McCarthy, senior midfielder Kim O'Keefe and sophomore back Cassie Scaman also return from last season.

On the Web

For complete sports schedules and results, go to bearsports.wustl.edu.

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Researchers

'The Holy Grail ... is humor appreciation'
— from Page 1

the nonverbal and verbal completion tests.

Laughter is a physical activity — it burns calories, strengthens abdominal muscles and boosts the immune system, among other benefits. Although they did not study the specific benefits of laughter and humor, it has been well documented that, as Mak said, "It can't hurt your physical state to be able to understand humor."

Laughter also has sociological benefits and plays a role in building and maintaining relationships. Thus, many older adult day services and programs incorporate humor as a way to improve both physical and psychological aspects of participants' lives.

The idea that humor can help older adults cope with life-changing events is not a new one, but relatively unstudied by researchers.

"The Holy Grail is, of course, humor appreciation. Understanding how humor comprehension works in older adults is the first step in this process,"

Carpenter said.

Previous work has looked at humor appreciation and humor comprehension simultaneously. Mak and Carpenter strove to study only the aspect of comprehension in hopes of understanding the step that occurs before one can appreciate humor.

"Humor is a big part of enjoying life and everyday relationships," Mak said.

Understanding the relationship between humor comprehension and cognition may eventually facilitate the way humor is integrated into programs or therapies for older adults.

So when your grandparents or older relatives say that they "just don't understand" your movies or your favorite comedians, there may be more at work than just generational differences in what they appreciate as "funny."

They legitimately may not get the jokes. That being said, researchers are just beginning to "tease" out ways to prevent cognitive decline in older adults, and hopefully one day grandchildren and their grandparents will be able to giggle at the same bad jokes.

But appreciating the same comedian is a whole other can of peanut brittle filled with fake snakes.

Lung

Synthetic cuffs join donor vessels to recipient
— from Page 1

the molecular mechanisms that control lung transplant rejection."

Lung transplants are the only treatment option for end-stage lung disease, including chronic obstructive pulmonary disease (COPD), cystic fibrosis and certain congenital lung defects. Following a transplant, patients must take drugs for the rest of their lives that suppress the immune system and prevent it from attacking the new lung. This leaves them vulnerable to upper respiratory infections, which can quickly develop into pneumonia.

Kreisel and others say they suspect that these illnesses alter the immune response and increase inflammation, which eventually lead to chronic rejection. They note that mainstay immunosuppressive drugs simply are not effective at preventing chronic rejection for lung transplants, and they hope the mouse model will reveal why.

"The current hypothesis is that lung transplant rejection is linked to chronic inflammation from transient viral or bacterial infections, and this can be aggravated by the fact that transplant recipients are taking immunosuppressive drugs," Kreisel said.

Mouse models for heart, liver and kidney transplants have existed for years, but developing a similar model for lung transplantation has proved to be a technical challenge. Mouse lungs measure less than an inch in length and the pulmonary vein and artery, which carry blood to and from the heart, are as thin as a human hair.

Mikio Okazaki, M.D., a post-doctoral fellow, adapted the lung transplantation technique used in rats to the mice. He uses synthetic cuffs to join the donor vessels with those of the recipient.

Okazaki has successfully performed several hundred lung transplants in the mice, and the team's analysis indicates the model simulates the same immune response that occurs in humans following lung transplantation.

The new mouse lung transplant model has an advantage over those in rats and larger animals because the genetics of mice are well documented and their genes are easier to manipulate.

"With the mice, we can selectively delete genes to study their function in the transplanted lung or in the recipient, which we've not been able to do effectively in other animal models."

ANDREW GELMAN

"With the mice, we can selectively delete genes to study their function in the transplanted lung or in the recipient, which we've not been able to do effectively in other animal models," said Andrew Gelman, Ph.D., an assistant professor of surgery and a lead investigator of this research. "By understanding the genes that control lung graft survival, researchers will be able to better guide the development of therapies to counteract chronic rejection."

The mouse model also will allow the researchers to investigate how other transplant-related complications affect the long-term success of the procedure. Many lung transplant patients experience gastric reflux, and doctors suspect this acid exposure damages the lining of the lung and further exposes the organ to pathogens. The mouse model will let researchers evaluate whether gastric reflux increases the risk of lung rejection.

Also, the time between surgery to harvest a donor lung and transplant it into a patient is widely suspected to affect its overall function after transplant surgery.

The mouse model will help pinpoint the inflammation that underlies damage to the organ when it can't be transplanted quickly and may lead to ways to prevent such injury.

Based on mouse models of other organ transplants, researchers have learned that different groups of immune cells contribute to rejection in different organs.

"Rejection of the lung differs from rejection of the heart in terms of the cells that participate in that rejection," said Alexander Sasha Krupnick, M.D., assistant professor of surgery. "Every organ is different. So we are thrilled to finally have an acceptable mouse model of lung transplantation to help us discover ways to increase the success of these transplants in humans."

Updated MBA program at Olin reflects school's core principles

BY SHULA NEUMAN

The Olin School of Business has overhauled its MBA program to better reflect the school's core principles of creating knowledge, inspiring individuals and transforming business. The MBA program's required core courses are designed to reflect those values by building a stronger foundation of critical thinking and leadership skills.

Some of the changes include: extending the orientation program an extra four days; adding a course called "Critical Thinking for Leaders" to the required curriculum; and creating a series of new courses on team leadership, effective leadership and leadership development. In addition, the fall semester of the first year (the core semester) has been extended by several weeks to accommodate the added material and to allow for greater integration and assimilation.

These changes were approved by the faculty and are effective for the 2007-08 academic year. Joe Fox, associate dean and director of the MBA program, indicated that there were several driving forces prompting the changes.

"Student feedback and faculty assessment indicated that we were adding significant content to an already crowded core semester. Students need time to absorb and apply the materials they learn in our classes," Fox said. "Adding several weeks to the core semester as well as the orientation program allows for this to happen. We also wanted to devote time and resources to developing superior critical thinking techniques both as a stand-alone topic and as a theme throughout the core semester."

Approximately 145 new MBA students from around the world will join the full-time MBA program this year starting today.



Vienna waltz The Gateway Festival Orchestra performed a concert titled "Classical Vienna" in Brookings Quadrangle July 22. The concert, part of the orchestra's 44th season of free summer shows, was conducted by James Richards, chair of the Department of Music at the University of Missouri-St. Louis, and featured music by Franz Schubert (1797-1828), Vienna's most famous native composer, and Wolfgang Amadeus Mozart (1756-1791), who lived there for much of his career.

Bermúdez

— from Page 4

of Modern Letters and professor of English, African & African American studies and American culture studies. Early will continue as director of The Center for the Humanities in Arts & Sciences.

Bermúdez, who studies non-linguistic thought in children and animals, as well as the nature of self-consciousness, joined the University in 2003 as professor of philosophy and director of the University's Philosophy-Neuroscience-Psychology Program, both in Arts & Sciences. He has more than 100 publications, including three single-authored books and four edited volumes.

A member of the McDonnell Project on Philosophy and Neuroscience, Bermúdez earned a doctorate from Cambridge University in 1992 and served previously as the chair of philosophy at University of Stirling, Scotland.

Bermúdez will work with Macias and the Academic Planning Committee to review interdisciplinary programs in Arts & Sciences. He's looking forward to expanding the center's interdisciplinary mission.

"Excellence in interdisciplinary teaching and research is one of Washington University's greatest strengths, and the Center for Programs is almost unique among American universities in its mission of promoting scholarship and student learning across the traditional boundaries of academic disciplines," Bermúdez said.

"It is an honor to continue Gerald Early's achievements as founding director of the Center for Programs. I'm greatly looking forward to working with members of the executive board to support and strengthen interdisciplinary collaborations within Arts & Sciences — and between Arts & Sciences and the other schools."

Bermúdez already has been active in organizing a National Science Foundation-funded collaborative workshop with the Center for Research in Psychology and Cognitive Science at Tsinghua University in Beijing.

Held at Tsinghua from July 16-21, the "U.S.-China Joint Workshop on Memory and Language: Interdisciplinary Perspectives" involved Bermúdez and seven other faculty from the departments of psychology, philosophy and education in Arts & Sciences, in addition to participants from Duke and Tufts universities, and the University of North Carolina, together with graduate students from Washington University.

Since its founding, the Center

has awarded five "seed" grants for interdisciplinary joint faculty projects and two grants for student interdisciplinary projects. In April, the Center hosted a faculty workshop exploring the who, how and why of collaborative interdisciplinary research. A follow-up workshop on funding interdisciplinary research will take place in September 2007. The center also publishes a newsletter, Cross Currents.

The Center for Programs executive board is composed of the directors of the following Arts & Sciences programs and centers: African & African American Studies, American Culture Studies, The Center for the Humanities, Center for the New Institutional Social Sciences, Center for the Study of Ethics & Human Values, Environmental Studies, Film and Media Studies, Interdisciplinary Program in Archaeology, Interdisciplinary Project in the Humanities, International and Area Studies, Jewish, Islamic and Near Eastern Studies, Legal Studies, Philosophy-Neuroscience-Psychology, Religious Studies and Women and Gender Studies.

University College offers preview of programs, place, people tonight

University College in Arts & Sciences is hosting a preview night tonight at 7 p.m. in Holmes Lounge.

In a program lasting approximately one hour, attendees will learn about the programs, the place and the people at University College.

Current students and recent

graduates will also be there.

Topics covered will include WUSTL tuition benefits, transferring college credits, financial aid, academic advising and the part-time and evening degree or certificate programs.

For more information, go online to ucollege.wustl.edu/preview_night.php.

Notables

WUSTL students excel in national satellite competition

By TONY FITZPATRICK

A University team took fifth place in the national CanSat competition June 8 in Amarillo, Texas.

The competition was for students to design and build a soda-can-sized payload for a large model rocket; the rocket blasted up to about 3,000 feet, where the payload was released and supposed to gently return to Earth.

Bonus points were awarded for landing closest to a designated target and for returning panoramic images of the descent.

Twenty-seven teams submitted designs for the competition, and 13 showed up with working hardware (plus one high-school team, graded separately).

According to Michael Swartwout, Ph.D., assistant professor of mechanical, aerospace and structural (MASE) engineering, coming in fifth was a welcome surprise and bodes well for WUSTL participation next year.

The CanSat team was made up of 10 undergraduates and was managed out of the MAE 190 class (now the MASE 1701). The students selected an ambitious

"spring-loaded wing" concept, by which the CanSat descends as an unpowered helicopter (autorotation similar to how a maple seed falls to the ground). WUSTL was one of only two teams that did not attempt a parachute descent.

The CanSat team was sponsored by the NASA Missouri Space Grant Consortium.

More information on the competition and results can be found at the the MASE nanosat Web site (nanosat.wustl.edu) and the national Web site (www.cansatcompetition.com).

Buell named associate vice chancellor for medical alumni, development programs

By BETH MILLER

Pamela Buell, a 30-year veteran of higher education development, has been named associate vice chancellor and director of medical alumni and development programs.

The appointment, effective July 16, was announced by David T. Blasingame, executive vice chancellor for alumni & development programs, and by Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine.

In this capacity, Buell will be chief fundraising and alumni relations officer for the School of Medicine.

"Pamela has extensive experience in major gifts and has held leadership roles in several capital campaigns," Blasingame said. "She worked closely with another of the nation's top medical schools and has an exceptional track record in securing significant support for the missions of academic medicine."

"She will be a great asset to the University, and I am delighted she is joining our team."

Buell joins the University from The Johns Hopkins University in Baltimore, where she had been executive director of development, leadership and principal gifts since 1999. She directed and supervised

the principal gifts program that raised more than 76 percent of the total philanthropic dollars at the university and its medical center. In addition, she developed communications and recognition strategies for capital campaigns. Her work on campaign publications and ceremonies won an award from the Council for Advancement and Support of Education (CASE) in 2001.

"Washington University School of Medicine is very fortunate that such an accomplished fundraiser and administrator has chosen to join our development team," Shapiro said.

"I am confident that Pamela will enhance the extraordinary alumni relations and development programs serving our medical school, and I look forward to working with her to increase the awareness of, and support for, the marvelous works of our faculty and students."

Prior to joining Johns Hopkins, Buell was director of leadership gifts and regional programs at The Pennsylvania State University. There she managed the prospect portfolio and developed solicitation strategies in the nucleus phase of a \$1 billion comprehensive capital campaign.

Previously, she held key development roles for nearly 20 years at the Indiana University Foundation and at the Indiana University Art Museum.

Buell earned three degrees from Indiana University: an undergraduate degree in French and fine arts; and master's degrees in arts administration and in fine arts with an emphasis in Chinese art history.



Buell

Huestis named associate dean for technology

Jeffrey C. Huestis has been appointed associate dean for technology for University Libraries, effective July 1.

He joins the Libraries' top tier of administration, which includes Vice Chancellor for Scholarly Research and Dean of University Libraries Shirley K. Baker and four other associate deans.

"The Libraries benefit tremendously from Jeff's deep knowledge of both libraries and technology," Baker said.

"We are delighted to have him on our senior leadership team."

Huestis joined the staff of University Libraries in 1982 and

has served in several leadership roles, most recently directing applications and information resource development in networking and library technology.

In his new role, Huestis will oversee the complex technological infrastructure used to manage the Libraries' collections and services. He will provide leadership for collaborations with the local, national and international informa-



Huestis

tion community on issues of network access, identity authentication and authorization, data storage and retrieval and other shared services.

In addition, he will advance the platform for the development of the Libraries' Digital Library Services and for the Libraries' and the University's Web presence.

Huestis earned a bachelor's degree in comparative literature from the University of Southern California; a master of library science from the University of North Carolina; and a master's degree in computer science from Washington University.

School of Social Work appoints four directors

Edward F. Lawlor, Ph.D., dean and the William E. Gordon Professor at the George Warren Brown School of Social Work, recently announced the appointment of four directors at the Brown School, effective immediately.

Shirley Huntley is the director of operations, Dana Klar is the director of the Kathryn M. Buder Center for American Indian Studies, Estelle Rochman is the director of student affairs and Cynthia Williams is the director of field education.

Huntley will work closely with the director of administration on day-to-day operations of the school. She has been a mem-

ber of the Brown School staff for six years and has recently served as director of student records and special programs.

Klar, a member of the United Houma Nation, returned to the Buder Center as interim director in 2004. She served as founding director of the Buder Center from 1990-95. Klar is responsible for the overall administration of the Center, including the recruitment and retention of Buder Scholars, University-wide collaboration regarding American Indian affairs and oversight of curricular and research developments.

Rochman, in the newly created position of director of student

affairs, will oversee a set of student services that advance academic and individual support for master of social work students. She has been involved in the Brown School's field education program for the past 12 years and has served as the program's director for the past five years.

Williams will lead the implementation of a new model of field education and advance the recommendations of the Brown School's Field Education Task Force. She has been a significant contributor to the Brown School community for 26 years and has served as assistant director of field education for the past five years.

Law receives National Science Foundation grant

Three professors at the School of Law have received a National Science Foundation grant for \$213,999 to support an empirical research project to collect and analyze data on federal court litigation brought by the Equal Employment Opportunity Commission (EEOC) over a 10-year period.

The two-year grant was awarded to Professors Pauline T. Kim, J.D.; Andrew D. Martin, Ph.D., also professor of political science in Arts & Sciences; and Margo Schlanger, J.D., for their project titled "The Litigation Process in Government-Initiated Employment Discrimination Suits."

The research is a project of the School's Center for Empirical Research in the Law (CERL) in collaboration with the Civil Rights Litigation Clearinghouse.

The data generated by this project will for the first time permit systematic analysis of the EEOC's enforcement activities and outcomes in the courts.

The project will entail analysis of the contours of monetary and injunctive relief sought and obtained by the EEOC in court cases and will contribute to understanding of institutional reform litigation and remedial design in employment discrimination disputes.

In addition, data on the EEOC's federal court litigation experience will be used to shed light on litigation dynamics and the interaction between litigant and judicial decision-making in a set of cases that constitute a significant fraction of the work of the federal district courts.

Documents relating to the EEOC's enforcement activities, particularly those relating to injunctive relief, will be made publicly available through the Civil Rights Litigation Clearinghouse (clearinghouse.wustl.edu), a Web-based repository of documents and data relating to civil rights litigation of many types.

Campus Authors

Charles McManis, J.D., the Thomas and Karole Green Professor of Law

"Biodiversity and the Law: Intellectual Property, Biotechnology & Traditional Knowledge"

(Earthscan Publishing, 2007)

Charles McManis has compiled and edited a book of groundbreaking essays on the balancing act between global economic development and the preservation of indigenous biodiversity and cultural heritage. Essay authors include international experts in the fields of law, biology and social sciences.

"The volume addresses one of the great questions of our times — namely how to promote global economic development, while simultaneously preserving local biological and cultural diversity," noted McManis, director of the School of Law's Intellectual Property and Technology Law Program and the Center for Research on Innovation and Entrepreneurship.

"The book examines the aftermath of three major treaties: The Convention on Biological Diversity, the Agreement on Trade-Related Aspects of Intellectual Property Rights, and the International Treaty for Plant Genetic Resources for Food and Agriculture," he says.

"It analyzes examples of 'global thinking' about the protection of traditional knowledge and presents vignettes of how intellectual property mecha-

BIODIVERSITY & THE LAW



INTELLECTUAL PROPERTY, BIOTECHNOLOGY & TRADITIONAL KNOWLEDGE

Edited by Charles McManis

nisms can be used to protect biodiversity locally."

The book is adapted from papers originally presented at "Biodiversity, Biotechnology, & the Protection of Traditional Knowledge," a 2003 conference hosted by the law school's Center for Interdisciplinary Studies and Whitney R. Harris Institute for Global Legal Studies, the University's Department of Biology in Arts & Sciences, the Donald Danforth Plant Science Center and the Missouri Botanical Garden.

HRNews summer issue available online

The summer 2007 issue of HRNews is available online and includes an article that discusses the basics of an employee's orientation period and an article that takes a close look at completing the Form I-9 properly.

Also included is an article on

how a manager can use the EAP as a tool to help keep an employee on track.

In addition to the main articles, included are many other resources to help with the day-to-day management of employees.

To access the newsletter, go online to hrnews.wustl.edu.

Washington People

Barbara Sapienza could teach a graduate-level course in customer service with her eyes closed. The executive assistant to Larry J. Shapiro, M.D., is humble, friendly, cheerful, unfailingly pleasant and dedicated to helping not just her boss, but also the incredibly diverse array of people who come to the Dean's office for assistance.

"When someone comes in and wants to talk to the dean about a concern, we do our best to help them," she explains. "Sometimes I and the other members of the staff are able to help them without taking the matter up with the dean."

Sapienza compares managing the schedule of Shapiro, executive vice chancellor of medical affairs and dean of the School of Medicine, to being an air traffic controller.

"There are so many goals and priorities that are worthwhile," she says. "One responsibility of the dean's office is to help everyone see all the pieces and come to compromises that recognize not only their own interests at the personal or departmental levels but also those of the school."

The dean's day can involve



Barbara Sapienza and Larry J. Shapiro, M.D., dean of the School of Medicine, look over a model of the rapidly growing School of Medicine campus.

BY MICHAEL C. PURDY

Juggling challenges with ease

Barbara Sapienza's natural people skills help relieve concerns brought to the dean

meetings with many different people, including department heads, hospital administrators, Human Resources, the University's general counsel, Barnes-Jewish and St. Louis Children's hospitals, the Danforth Campus, the Chancellor's Office and the Board of Trustees.

"Barb tries to inject some sanity into my sometimes chaotic schedule," Shapiro notes.

Because she's worked with him for four years, Sapienza finds that she is often able to anticipate Shapiro's questions about a project. She makes sure she has answers to those questions ready before she takes the issue to him.

Sapienza says she rarely closes the door to her office, but notes with delight the sole person in the dean's office suite who knocks when she does: Shapiro.

"That means a lot to me, that he respects me that much," she says. "I tell him of all people, he doesn't have to knock, but he still does."

Energy and enthusiasm

So, how did Sapienza get hired for such a key position? Was she old friends with someone in the dean's office, or did the previous dean give her a great recommendation?

No, she just saw a classified ad. "I thought, 'What a cool job! I'll never get it, but what the heck, why don't I send my resume in?'" Sapienza remembers. "I was so surprised when they called me."

Shapiro remembers being impressed with Sapienza's energy, enthusiasm and organizational skills.

"What I have come to appreciate since then are her great people skills, her exceptional work ethic (she is often in the office on week-ends and until well into the evening) and her loyalty to me and to the institution," he says. "Somehow she balances all of the demands of professional and family life and makes it look effortless."

Born in Imperial, Mo., Sapienza began her professional life as a medical transcriptionist for the St. Louis Veteran's Administration Hospital.

"I was interested in health care and helping people, but I didn't have the stomach to be a doctor," she explains. "I could never give someone a shot or put in an IV, so I work in administration instead. And even though what I do is such a small, tangential piece of the overall picture, patient care is still what we're all about."

Mentoring her peers

After the VA, Sapienza went to work at St. Anthony's Medical Center in south St. Louis County where her mother had managed the print shop. While Sapienza worked as a receptionist there, the executive assistant to the hospital president began to mentor her and encouraged her to apply for positions higher up the career ladder.

Now that she's climbed quite far up that ladder, Sapienza wants to return the favor for others and has started mentoring receptionists and secretaries in the dean's office.

"I want to put back in what I've received, and help others grow and learn more and move ahead," she says.

Carrie O'Guin, a former receptionist in the Dean's office, now works as secretary for the Department of Anthropology in Arts & Sciences.

"Barb kind of took me under her wing, and it really seemed like I wasn't the only one she did that with," O'Guin says. "She's very caring and very helpful in general. She's good at getting people to feel safe and to open up."

Shapiro agrees, noting, "Barb really cares about others with whom she works and has been a great mentor to a number of staff in the office."

In a similar spirit of sharing insights, Sapienza is an active participant in the Deans' Assistants Group of the American Association of Medical Colleges. She was recently elected secretary and a board member of the group of about 100 assistants.

"We have discussions and presentations on a variety of topics, like diversity and preparing for accreditation visits," she says. "When the School of Medicine began preparing to become a tobacco-free campus, for example, I sent out a message on the group's list-serve and instantly received quite a bit of feedback on the challenges and problems we might be facing."

Sapienza proudly reports that she recently convinced the group to hold its annual meeting in St. Louis in 2008.

Speaking not just of her own effort to bring the assistants group to St. Louis but also of occasional difficulties encountered in faculty recruitment, Sapienza says, "I just can't believe it when we have a hard time getting people to come to St. Louis. We need to do a better job of selling this city. It has culture, sports teams, public transportation, the river and so much history."

Sapienza recently began riding that same public transportation system to work, and happily reports that she hasn't had to fill her car's gas tank for 10 days. She lives in Affton with daughter Dianna, 20, an education student at Webster University, and son Matthew, 17, who will be a senior at Affton High School. Dianna recently took on a part-time job at St. Anthony's, becoming the third generation in the Sapienza family to work there. Matthew is thinking about college options and is leaning toward computer science.

Interest in writing

She says her children are her primary hobby, but also admits a personal interest in writing.

"Fortunately for me, my job requires me to do a great deal of writing for Dean Shapiro," she

says. "I draft introductory speeches and most of his correspondence, but he of course will add a lot of his own special touches and personality to these pieces."

Writer Mitch Albom is high on Sapienza's list of favorite authors. She met him last year when he came to the St. Louis County Library to sign his new book, "For One More Day." Her favorite Albom book is "Tuesdays with Morrie."

On her own, Sapienza published a poem and wrote a guest column for the Suburban Journals when her children were young. Last year, she took a creative writing course at the Danforth Campus.

"One thing I learned from that course was that everyone has their own voice as a writer, even if they're not writing about themselves," she says. "We were a class of 14 people from various parts of the country with differing interests, and we all had distinct voices."

As a conversation about her job and her life seems to be winding down, Sapienza mentions that she has one more personal interest inspired by an extraordinary experience.

"In 1998, my son needed a kidney transplant, and I gave him one of my kidneys," she says. "That's not something I want to brag about at all, because what mother wouldn't do that for her son?"

"But if it can help promote awareness of the need for donor organs, Matthew and I both agreed that it was worth mentioning."



Dianna, Barbara and Matthew Sapienza

Barbara Sapienza

Born: Imperial, Mo.

Family: Daughter Dianna, 20; and son Matthew, 17

Hobbies: Reading, writing and activities with children

Favorite author: Mitch Albom

Likes to get away to: The ocean or other large bodies of water

Currently reading: "On A Night Like This" by Ellen Sussman

Favorite family restaurant: The Olive Garden