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Record



Washington University in St. Louis

July 17, 2008

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Researchers hone technique to destroy pediatric brain tumors

By MELISSAE STUART

An interdisciplinary team of researchers at Washington University, led by Karen L. Wooley, Ph.D., the James S. McDonnell Distinguished University Professor in Arts & Sciences, is a step closer to delivering cancer-killing drugs to pediatric brain tumors.

Such tumors are often difficult to completely remove surgically; frequently, cancerous cells remain following surgery, and the tumor returns.

Chemotherapy, while effective at treating tumors, often harms healthy cells as well, leading to severe side effects, especially in young children that still are developing brain functions.

In an effort to solve this problem, the Wooley lab has developed polymeric nanoparticles that can trap doxorubicin, a drug

commonly used in chemotherapy, and slowly release the drug over an extended time period. By fine-tuning the polymer composition, they were able to tailor the release rate of the drug and improve its solubility.



Wooley

The work was published in Chemical Communications and supported by the Children's Discovery Institute of St. Louis Children's Hospital and by the National Heart, Lung, and Blood Institute of the National Institutes of Health as a Program of Excellence in Nanotechnology.

With its approach, the Wooley lab was able to load more of the drug into the cores of the nanoparticles, compared with similar constructs.

"Typically, a polymeric micelle has 3 to 4 percent (drug) loading per nanoparticle mass. In our

See Tumors, Page 6



Just about ready Workers put finishing touches on the William H. and Elizabeth Gray Danforth University Center, a state-of-the-art gathering place not only for students but also for faculty, staff, friends, parents, alumni and visitors. The building will open to the public Aug. 11 with a full slate of activities — including special tours and giveaways — scheduled for its opening week. The three-story, 116,000-square-foot facility will feature dining areas, lounges, meeting rooms and offices for student leaders and student services professional staff. "This building will be one of the jewels of the Danforth Campus," said William P. Darby, Ph.D., director of the Danforth University Center. "As one of our students described it, this building will be our front door — an excellent way to welcome visitors to campus." A formal dedication is scheduled for April 2009.

Weekend eating slows weight loss, researchers find

By JIM DRYDEN

Saturday can be the worst enemy for our waists, according to School of Medicine researchers.

They found that study subjects on strict diet and exercise programs tend to lose weight more slowly than expected because they eat more on weekends than during the week. The investigators report their findings in the advance online publication of

the journal Obesity.

Past research had confirmed that people tend to gain weight during the holidays, particularly between Thanksgiving and New Year's. Yet this is the first study to carefully monitor daily body weight, calorie intake and calorie expenditure for several weeks throughout a year and to demonstrate that increased caloric intake isn't just a problem during the holidays — it also happens on most weekends.

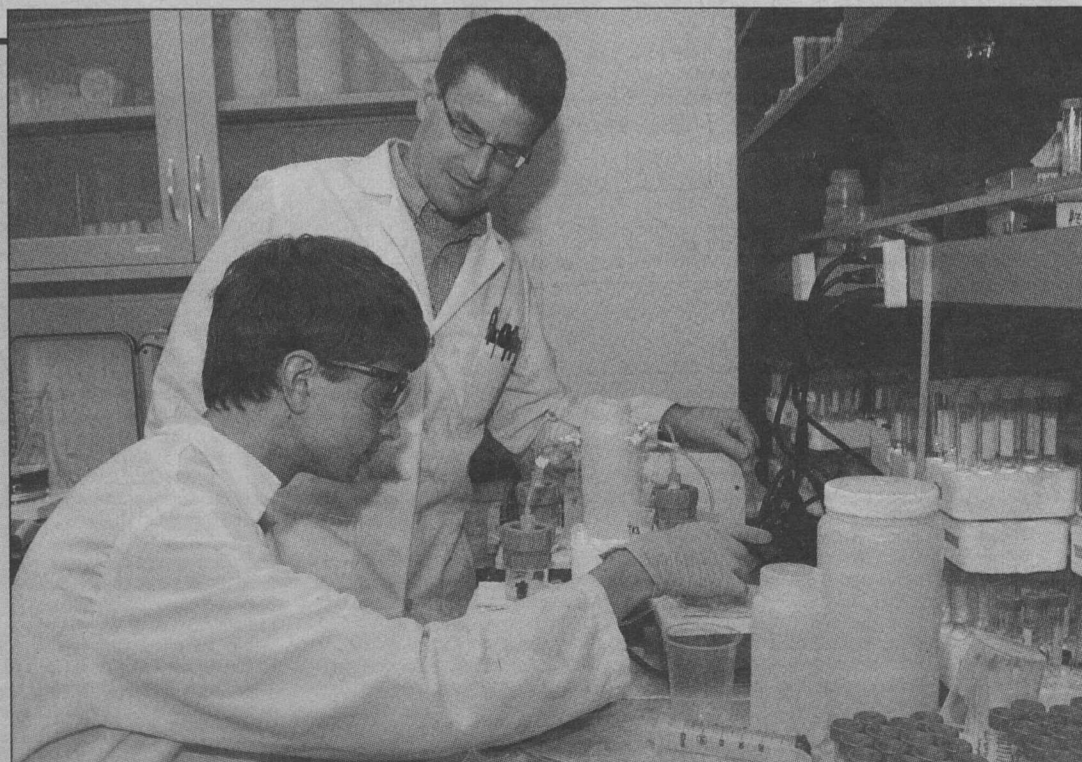
"We thought weekends would present a problem for some people attempting to lose weight, but the consistency of our finding before and during the interventions was surprising," said first author Susan B. Racette, Ph.D., assistant professor of physical therapy and of medicine. "Subjects in the diet group lost weight during the week, but over the weekend, they stopped losing weight because they were eating more."

Racette's team followed 48 adults between the ages of 50 and 60 who took part in the CALERIE (Comprehensive Assessment of Long-term Effects of Reducing Intake of Energy) study. Body mass index ranked subjects as overweight or healthy weight when the study began. None was classified

See Weight, Page 6



Racette



Summer STARS Dan Giammar, Ph.D., associate professor of energy, environmental and chemical engineering, and Nevin Peebles, a senior at St. Louis University High School, look at reactors used to study lead concentrations in drinking water. Giammar is mentoring Peebles, one of 83 high-school students participating in this year's Students and Teachers as Research Scientists (STARS) program, sponsored by Solutia Inc., Pfizer Inc., LMI Aerospace Inc., D3 Technologies, and The Solae Co. Evolved from the NSF Young Scholars program, STARS provides high-school students with the opportunity to participate in scientific research at one of St. Louis' distinguished academic institutions.

International diplomat, universal inspiration

By CYNTHIA GEORGES

Fernando Cutz represents the United States as a diplomatic intern in the U.S. Embassy in Lisbon, Portugal. His residence in Caiscais — a five-bedroom, three-bath apartment with a swimming pool, tennis courts and a balcony view of the beach — is a 40-minute drive from his office, where he routinely reports each morning in coat and tie.

Passionate about politics, public speaking and exploring new cultures, Cutz will tell you he's a better person when he is busy and challenged: "Competition leads to progress," he says.

What is most striking about this impressive profile is Cutz himself, a WUSTL junior. And his age: 20. Landing a coveted internship in what's known as Europe's sunniest capital suits Cutz to a T. Of his posh living arrangements, he said, "I love Wash U. dorms, but this is even better!"

A political science and inter-

national studies major with a psychology minor, Cutz is seizing every opportunity to expand his horizons. And he's doing it coming off the biggest challenge of his life: cancer.

How he faced down a deadly disease then went on to a prestigious international internship is an inspiration to the entire University community.

Despite fighting the disease for the past year, his responsibilities — work in the embassy's consular services and public relations office — have been nothing less than exhilarating. And he's getting an inside view of what it takes to run an embassy.

"I'm learning diplomacy, American interests abroad and a lot about the Portuguese and, more broadly, the European cultures," he said.

Cutz has an undeniable edge in this process.

A native of Rio de Janeiro, Brazil, Cutz moved with his family. See Cutz, Page 5

School of Medicine Update



ROBERT BOSTON

At the School of Medicine Employee Appreciation Day picnic June 6 at Hudlin Park, hundreds of School of Medicine faculty and staff line up for Ted Drewes Frozen Custard and to enter their names in the drawing for prizes. In addition to the catered barbecue lunch and frozen custard, the event included games and music. The thunderstorms held off until the event had concluded.



ROBERT BOSTON

(From left) Timothy Pruitt, facilities technician III in Building Services; Lance Bottini, instrument technician in the Department of Molecular Microbiology; and John Riley, facilities technician III in Building Services, have some fun at the School of Medicine picnic June 6.

Four receive awards from dean

Four School of Medicine employees were recognized this year by Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, for their outstanding contributions and exceptional commitment and dedication to the school.

Tina Grubbs, office coordinator for the Department of Surgery, and Marybeth Modesto, director of business operations for the Department of Medicine, each received the Dean's Distinguished Service Award.

"Tina is one of the most dedicated and committed individuals that we have here at Washington University," said Jamie Sauerburger, executive director of business affairs for the Department of Surgery, of Grubbs. "She is proud of where she works and proves every day that she is the front door to helping others understand what a great place this is in which we work and how fortunate we are to be here."

Tammy Purington, special projects administrator in the Department of Medicine, said of Modesto: "Marybeth is a dedicated employee and stands above the rest. She has integrity, dependability and utmost knowledge of her role here at Washington University. She has taught her staff about dedication and striving to be the best and service oriented to others at the University."

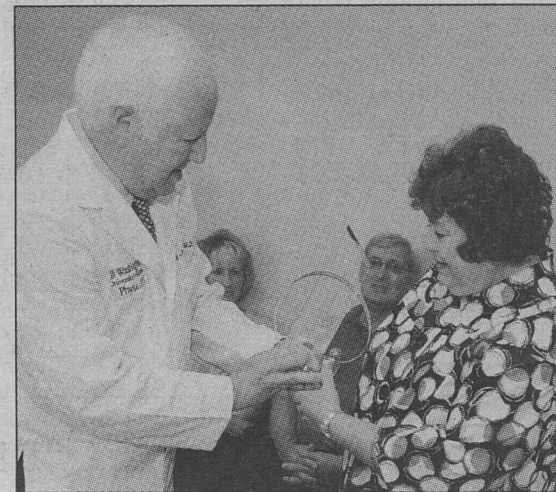
Jennifer Lackner, research administrator in the Department of Pathology and Immunology, received the Research Support Staff award. "Jennifer is the most responsible, effective and productive administrator I can imagine," said Herbert W. "Skip" Virgin, M.D., Ph.D., the Edward Mallinckrodt Professor and chair of the Department of Pathology and Immunology. "She is remarkably organized and keeps me aware of all the things I need to do to get a grant submitted. Most important to me, she always works hard to shield me from unnecessary work and allows me to focus on the science."

Sally A. Jansen, insurance/billing/coding assistant II in the Department of Medicine's Division of Dermatology, received



RAY MARSH

Tina Grubbs, office coordinator for the Department of Surgery, expresses delight in receiving the Dean's Distinguished Service Award from Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, June 17. The award, considered to be the medical school's highest form of staff recognition, recognizes employees who exceed their job responsibilities, help to create a positive working environment and improve the community in which they live.



RAY MARSH

Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, gives Marybeth Modesto, director of business operations for the Department of Medicine, the Dean's Distinguished Service Award June 25.

the Operations Staff Award. "Sally Jensen has repeatedly demonstrated an exceptional example for our employees to emulate," said Leslie Pette, business director in the Division of Dermatology. "Her efforts have been exemplary and serve as an important reminder of how fortunate we are to have Sally as a member of our team."

Employees receive recognition for years of service to school

At the Second Annual Length of University Award Programs June 5, employees were recognized for 10 years of service to 40 years of service.

The following employees were recognized for **10 years of service**: Ella Alexander, Felicia R. Allen, Aviva Aloush, Sedic Altman, Karen Ann Altmansberger, Leise A. Amann, Mark A. Ames, Cynthia Ann Anderson, Elizabeth Arentson, Michael E. Aug, Takesha M. Austrell, Sandra Dee Avant, Damon Baisden, Steven A. Barber, Gary J. Barron, Brenda I. Bateman, Brigitte D. Baumeyer, Terrence Baylor, Christine Marie Bear, Michele Becker, James A. Belling, Richard Biehl, Tamberlyn Bieri, Angela Bourbon Freie, Freda Branch, Randy M. Branson, Susan Lorraine Brophy, William Scott Byerly, Kirsten E. Cady, Lynn Marie Calvird, Marsha Lynn Cannon, Marco Cardenas, Cheryl B. Chambliss, Traci A. Christenson, William K. Clayton, Lanelle Coleman, Laura A. Colvin, Kathy D. Corey, Paris Crayton Jr., Denise M. Curl, Sherri R. Davies, Todd A. Davis, Doris Day, Pamela Dayton, Janet M. Deal, William A. Dorsey, Margaret I. Dotson, Ann Marie Doyle, Paul F. Duell, Christina M. Durham, Junko H. Eccles, Tanya Eden, Maureen J. Egan-Palmer, James M. Eldred, Anda Marie Estes, Phyllis A. Evans, Efreim Exum, Michele Ferraro, Carolyn Gail Finnegan, Sherri Lynn Fisher, Patricia Lynn Fisher, Robin Lujan Fitzgerald, Gigi Flynn, Denise Ford, Mary P. Foshage, Katrina R. Frazier, Shirley Ann Frei, James R. Frizzell, Lora M. Gallagher, Debra Lee Gase, Ruth M. Gill, Victoria Rose Goldman, Michael J. Gossett, Melissa Ann Grabenhorst, Allison Jean Grindon, Jocelyn

Grinston, Shao Ping Guan, Tracey Johnson Guthrie, Gayla Danette Hadwiger, Carrie Ann Halpek, Winona Y. Hampton, Dawn M. Hannah, Evette M. Harris, Misha-Renee Hart, Trupti S. Hathcock, Susan G. Hawryszko, Kathleen E. Henneberry, Wanda A. Herbst, Kevin M. Holland, Dione A. Holmes, Rhonda L. Hopkins, Donna Lee Hopson, Debra Lynn Hughes, Tomomi Ichinose, Arnita James, Erika Nichole Johnson, Sherry Ann Johnson, Sally J. Jones, Claudette Jones, Benjamin F. Joseph, Twyla Juehne, Heinz Herbert Kahan, Dana M. Kharibian, Carol Ann Kirschner, Phyllis Ann Klein, Christine L. Klein, Deborah Klos, Paul Koppel, Janet Irene Kuit, Kathleen Ann Kumano, Lou Anne Lanning, Gene Edward Largent, Sherry Lassa-Claxton, Shawn Matthew Leonard, Ying Lin, Bonnie Janice Logsdon, Deborah Jean Long, Adelheid A. Lowery, Amy Lyn Ly, Debra S. Macaulay, Janie Mack, Mary Lee Madden, Jacquelyn A. Mallmann, Jolietta Malone, Stephen A. Mandel, Dailing Mao, Petrina Martin-Davis, Barbara Mathieu, Beverly R. May, Jennifer C. McCrea, Kelly J. Mead, Karen Meyer, Lillian Milich, Shirley Jean Moore, Cynthia M. Moseid, Jennifer C. Mosher, Christina Mary Mossinghoff, Teri A. Naismith, Margaret O. Narconis, William Edgar Nash, Chrishon Michel Newton, Laura Marie Nichols, Tomoyuki Nishino, Nancy J. Ogle, Dianne T. Oliver, Donna M. Otzenberger, Kimberley Ann Pape, Alethea Paradis, Myriam Pelly, Ronaldo S. Perez, Felicia Shay Phelps, Edeltraut I. Plut, Larry Poertner Jr., Cathy Pratte, Stephen Purnell, Norma J. Range, Mary Helen Reinarm, John Andrew Richards, Leslie Anne Rickard, Angela L. Robinson, John Ross Roman, Judith

F. Rommel, Mary Monique Rosen, Elaine A. Ross, Michele Evette Royer, Laura Lynn Ruhrwien, Francesca L. Ryan, Donna Sand, Denise A. Scarborough, Pamela A. Schmidt, Sandra Schwartz, Karen Seifert, Karen Sell, Philip E. Saper, Jennifer L. Sgro, Duanwen Shen, Michael D. Shornick, Brenda Ann Sides, Jacqueline Sills, Kevin A. Sleeter, Michelle L. Smith, Roxanna Lee Soaib, Karen Steger-May, Paula M. Stein, Lisa Steinhoff, Melvin L. Stewart, Jordana Stewart, Tamara Stich, Georgia Lee Stobbs, Amy M. Strickland, Charles W. Stuckenberg, Soila Sinikka Sukupolvi, Lisa Robin Swafford, Christopher S. Swan, Cynthia Kaye Sweet, Mary Tabacchi, Angela M. Tanner, Waltraud H. Taylor, Fikret Terzic, Donna C. Theiss, David T. Trame, Kathryn M. Trinkaus, Christine E. Turner, Laura M. Veremakis, Thomas F. Voller, Sabrina Wagoner, Paula Walker, Mia C. Wallace, Joseph F. Walters, Rebecca Waltman, Autumn Watson, Stephen M. Wegescheide, Donald D. Williams, Shirley Faye Williams, Gerald Anthony Williams, Chantay J. Williams, Judy L. Wilmouth, Mary M. Winkler, Ann E. Winn, Jennifer L. Witt, Todd N. Wylie, Chuanxi Xiang, Zhiqiang Xu, Ping Yang, Martin R. Yoakum, Patricia Lee Young, Wendy Wei Zhang and Xu Zhang.

The following employees were recognized for **15 years of service**: Susan J. Adams, Christopher Mic Adkins, Eugene Vasiliiv Agapov, Charles R. Albach, Jay Michael Albertina, Pamela Anne Anderson, Shelly J. Audrain, Malgorzata Bielinska, Donald L. Blair, John R. Bracamontes, Elise Virginia Brannan, Linda M. Brockman, Vincent Brown, Carolyn Marie Carbery, Kathy E. Cox, Sheila L.

Crowder, Robin Elise Dam, Dorit Daphna-Iken, Lois Ann Davis, Deborah A. Delano, Grace E. Dick, Jane F. Ditch, Kathryn Lyle Duchek, Cathryn L. Eghigian, John Arthur Engelbach, Tracey Erdman, Betty K. Feagans, Mary M. Feldmeier, Brenda Jo Galati, Debra June Gullede, Heather Lisa Hageman, Terese Rose Hall, Christine M. Hamilton, Darren C. Hampton, Janis Lynn Hardin, Carrie D. Harris, Richard E. Hauhart, Cynthia Ann Helms, Koliska Ann Hill, Gloria Jean Hoch, Theresa Marie Iffrig, Veselina L. Jovanovic, Susan Kaminski, Barbara L. Keaton, Linda Ann Krueger, Steven Leary, Janaki Lehwala-Guruge, Angela Lewis, Raylont A. Logan, Mary Ann Mallon, Reginald M. Manney, Susan C. Maranan, Jo Ann Marsala, Earl Martin, Mary Ann McKay, David L. Melson, Jamie Ann Menendez, Donna Louise Meyer, Lynne M. Mitchell, Darrik Monson, Linda L. Montague, Gary John Mueller, Billy Darren Nix, Joanne B. Norton, Barbara Jean Oberle, Michael D. Onken, Deborah Kay Osborne, Sherman Owens, Larry E. Park, Julia Kay Pikoraitis, Jacqueline Mari Pinkerton, Carol Jean Rose, Jamie L. Sauerburger, Laura Ann Schuurmann, Mary M. Schurwan, Lorraine Marie Schwartz, Julia Anne Schweiger, Dulari Dilip Shah, Prabha Sharma, Lisa Gayle Sherrill, Vanessa Smith, Joan Marie Smith-Lauer, Maria Patrice Spriggs, Sandra Lynn Stanger, Vicky Johnson Stringer, Carol Jean Swarrington, Michael Talcott, Janet Talcott, Evanne Trevaskis, Tina Marie Turasky, Tina Ann Vogl, Mary Elizabeth Vogt, Paula Lynn Walker, Shari Gail Watkins, Margaret M. Williams and Vanetta P. Wargart.

The following employees were recog-

nized for **20 years of service**: Mary Margaret Akin, Mary K. Amann, Stephanie A. Amen, Nancy L. Bertelsman, Mary Regina Brennan, Rose Lee Brockhouse, Norma D. Brown, Bernard H. Brownstein, Nancy Ann Campbell, Gwendolyn B. Chatman, Zhiwei Chen, Patricia Ann Crader, Sandretta Tasha Crawford, Lucy Elena Cruse, June Pauline Derhake, Diane Sue Disbrow, Donna Marie Diuguid, Lawrence Wayne Dodd, Tia Ogilvie Drake, Michael J. Engle, Vickie R. Evans, Johnny Fields Jr., Beverly Kay Floyd, Glenn Jay Foster, Sandra Jean French, Margaret Mary Frisella, Kevin W. Fuller, Susan Maureen Garland, Nancy Lynn Garrett, Pamela Jean Gassner, Diane M. Giamarino, Beverly Laura Gibson, Michael Angelo Giorgi, Dennis Cornell Gordon, Catherine Anne Grady, Diana Gualdoni, Connie Haynes, Mary Elizabeth Heeley, Lena Grace Henry, Katherine Alene Hoertel, Matthew S. Holt, Jody Knight Horn, Deborah Laine Howard, Claudine H. Ilko, Troy Ingram, Annette Irving, Patricia Ann Jakoubek, Richard M. Keeling, Daniel Lee Kinder, Dorothy Anne Kinscherf, Patrick J. Kline, Caroline B. Kloeckner, Barry Lathorne Knox, Carol J. Kohl, Margaret A. Krampfer, Kathy J. Kronk, Vicki L. Kunkler, Rene Kay Leadicker, Bruce C. Linders, Edward J. Linn, Lynne Lippmann, Patricia Lock-Buckley, Karen Sue Luetkemeyer, Shelly Lynn Meese, David Allen O'Donnell, Judy Lynn Osborn, Susan E. Penrose, Melanie Puhar, Joseph Victor Quennoz, James A. Randolph, Joanne Margaret Rike, Denise Aileen Rodgers, Joann Mildred Sanden, Patricia L. Sasse, James Harrison Scott Jr., Terry Lynn Sharp, Samuel Ray Smith, Katherine A. Swan, Antania Y. Taylor, Debra Ann Turner, Sherri Kay Vogt, Janis Lea

Watkins, Denise Ruth Welsch, Mary Susan Wingate and Alexander Zheleznyak.

The following employees were recognized for **25 years of service**: Kathryn Therese Akers, Joyce Bateman, G. Larry Brethorst, William Buckner, Tina Lynn Burmeister, Sumitra Chakraverty, Elizabeth E. Engeszer, Maria Luisa Ewen, Christine J. Fini, Lynne Renee Foster, Linda E. Gallo, Gayle Denise Harvey, Rita M. Hauer, Constance Sue Huycke, Karen Marie Laclear, Debra Ann Lane, David Lee McAtee, Jacquelyn S. McDonough, Carol Ann Murray, Nancy Beth Myers, Elizabeth L. Nordike, John Joseph Page, Jr., Lisa Ann Patterson, Patricia Emily Pounds, Paul Roberson, Nanette S. Rochberg, Denise Kay Soehngen, Susan Andrea Starbuck, Marlene Stark, Patricia M. Wanko, Terry G. Whitaker, Janet Loraine Willand and Charlie Ojile Wuif.

The following employees were recognized for **30 years of service**: Cheryl Sue Adles, David Ralph Ashner, Katherine C. Chang, Cheryl Lynn Clobes, Mary Feld, Katherine E. Frederick, Joyce Ann Linn, Rebecca J. Meininger, Kathryn Yvonne Norwood, Grady W. Phillips Jr., Joan Lois Stirling and Ann Marie Zito.

The following employees were recognized for **35 years of service**: Dianne Lee Boehmer, Linda Kay Breuklander, Colleen Ann Calcaterra, Maggie Man-Yee Chi, Connie Lavern Davis, Kathleen Ehrhard, Karen G. Green and Ely M. Sharp.

The following employees were recognized for **40 years of service**: Peggy Brown and Shirlene Taylor.

School of Medicine Update

Steroids in female mouse urine light up nose nerves of male mice

By MICHAEL C. PURDY

A group of steroids found in female mouse urine goes straight to the male mouse's head, according to School of Medicine researchers. They found the compounds activate nerve cells in the male mouse's nose with unprecedented effectiveness.

"These particular steroids, known as glucocorticoids (GCCs), are involved in energy metabolism, stress and immune function," said senior author Timothy E. Holy, Ph.D., assistant professor of anatomy and neurobiology. "They control many important aspects of the mouse's physiology and theoretically could give any mouse that sniffs them a detailed insider's view of the health of the animal they came from."

Holy plans further research to see if activating the nerves in the male mouse's nose leads to particular behavioral responses. He probes the male mouse's reaction to chemical signals from female mice to advance understanding of pattern recognition and learning in the much more complex human brain. In 2005, he found

that female mice or their odors cause male mice to sing.

Science has long recognized that urine, sweat and other bodily fluids contain chemical communication signals called pheromones that can influence the biology or behavior of others.

Most mammals use the information in these signals for social purposes, such as establishing territory or dominance or in courtship and mating. In many cases, though, the specific chemical identities of the signals are unknown.

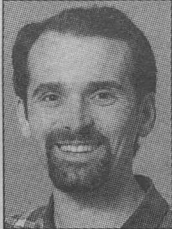
The study, published in the June 18 issue of *The Journal of Neuroscience* and led by recent graduate Francesco Nodari, identified compounds that are unusually potent stimulators of the mouse nose. The pheromones activate nerve cells 30 times as often as all the other pheromones previously identified in female mouse urine combined. In addition, several of the new signals activate specific nerve cells. This may mean the male mouse's brain can assess different aspects of female mouse health by selectively analyzing individual pheromones.

The GCC pheromones that

Nodari identified were sulfated, which means they had a chemical attachment comprising sulfur and oxygen atoms. This attachment is added to deactivate the steroids prior to excretion in the urine. When Nodari used an enzyme to remove these attachments, the GCCs lost their ability to activate nerves, further suggesting that the link between the sulfated GCCs and the nerve cells is a channel fine-tuned by evolution to carry information from female mice to male mice.

The nerves researchers studied in the male mouse nose are located in an area known as the accessory olfactory system. The system sends its outputs to a different part of the brain than the main olfactory system and is dedicated to detecting airborne particles. But researchers believe the accessory olfactory system focuses on compounds from sources that are physically very close to or touching the animal.

Holy said this focus on scents from nearby sources makes the accessory olfactory system "halfway between a taste system and a sense of smell." He said the GCC pheromones account for approximately 75 percent of the signals detected in female urine by the male accessory olfactory system.



Holy

DeBaun named Ferring Family Chair in Pediatric Cancer and Related Disorders

By BETH MILLER

Michael R. DeBaun, M.D., has been named the Ferring Family Chair in Pediatric Cancer and Related Disorders at the School of Medicine and St. Louis Children's Hospital.

The endowed chair was established by John and Alison Ferring of St. Louis through the St. Louis Children's Hospital Foundation.

DeBaun is professor of pediatrics, of biostatistics and of neurology at the School of Medicine and a pediatric hematologist/oncologist at St. Louis Children's Hospital.

"Receiving this endowed chair is an honor," DeBaun said. "It represents the body of work our team has completed over the last 18 years and is external validation of the scientific journey that we started in 1990."

The newly endowed chair po-

sition offers DeBaun more flexibility to pursue his passion of sickle cell disease research.

"The most important objective I want to accomplish through this chair position is the pursuit of new knowledge that improves the lives of children with sickle cell disease and their families," he said. "The legacy of the chair will be the opportunity to recruit some of the best minds in the world to focus on this disease," DeBaun said. "My internal expectations are higher than any external expectations. I feel our best work is yet to come."

DeBaun has established a nationally renowned program for



DeBaun

treatment, education and research into the complications of sickle cell disease. Under his leadership, he and a team of investigators have received funding for the first National Institutes of Health (NIH)-sponsored international clinical trial in sickle cell disease called the Silent Cerebral Infarct Transfusion (SIT) Trial.

Among his many accomplishments, DeBaun established the Charles Drew Program, in collaboration with the American Red Cross, to increase the number of African-American blood donors in the St. Louis community. In addition, he initiated the Sickle Cell Sabbath, a faith-based effort to educate the African-American community about sickle cell disease and the importance of blood donation for those with the disease. These efforts have doubled the number of units of blood donated by African-Americans.

John Ferring, president and CEO of Plaze Inc., said he established the endowed chair as a way to contribute in a meaningful way to the Children's Discovery Institute and because of his experience working with DeBaun.

"My wife and I have been extremely impressed by what Dr. DeBaun has accomplished since we've been working with him through the Ferring Scholar Program," Ferring said. "As we learned more about what he was doing, we saw he was making a worldwide impact. He's a remarkable person and a real asset to the community and to St. Louis Children's Hospital."

In 2002, DeBaun established the Ferring Scholar Program supported by the Ferrings. Through this program, some of the best high-school students in St. Louis are chosen for a three-year internship at St. Louis Children's Hospital and the School of Medicine to experience health care and research firsthand.

Park receives Winn Prize, Society of Neurological Surgeons' highest honor

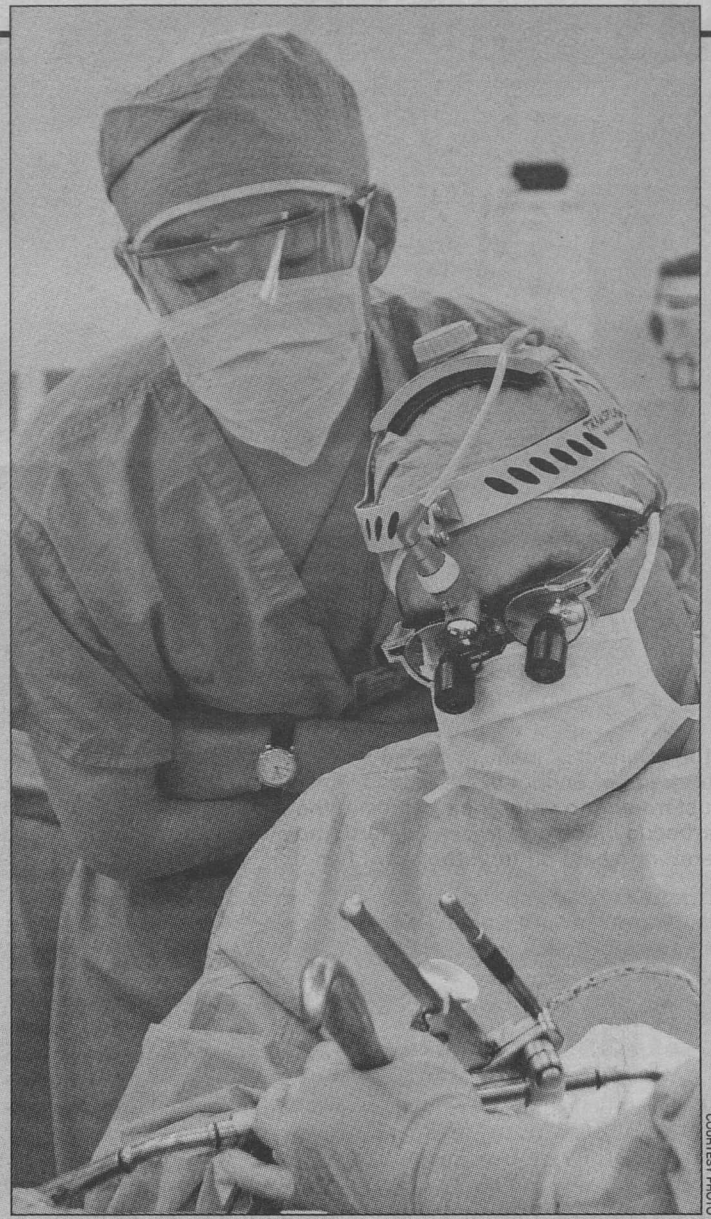
By MICHAEL C. PURDY

T.S. Park, M.D., the Shi Hui Huang Professor of Neurological Surgery at the School of Medicine and chief of pediatric neurosurgery at St. Louis Children's Hospital, has received the H. Richard Winn, M.D., Prize, the highest honor of the Society of Neurological Surgeons.

The international award recognizes a neurosurgeon for outstanding research in the neurosciences that impacts clinical practice. Park has pioneered the use of selective dorsal rhizotomy (SDR) as a treatment for patients with spastic cerebral palsy (CP), the most common form of CP. The SDR procedure reduces spas-

ticity in CP and improves motor functions by cutting nerve fibers. Over the past 22 years, Park has performed SDR on more than 1,700 patients from 48 states and 38 countries, more than any other neurosurgeon in the world.

Two other WUSTL neurosurgeons have won a similar honor, known as the Grass Award, from the Society of Neurological Surgeons. Ralph G. Dacey Jr., M.D., the Henry G. and Edith R. Schwartz Professor and head of the Department of Neurological Surgery, won the Grass Award in 2003; Robert L. Grubb Jr., M.D., the Herbert Lourie Professor of Neurological Surgery and professor of radiation sciences, received it in 1990.



Watchful eye Norihito Soga, M.D., Ph.D., observes Surendra Shenoy, M.D., associate professor of surgery, perform a mini-nephrectomy procedure May 22 at Barnes-Jewish Hospital. Soga and colleague Kouhei Nishikawa, M.D., from Mie University Graduate School of Medicine in Mie, Japan, came to learn the procedure from Shenoy and Martin Jendrisak, M.D., assistant professor of surgery, who developed it. The mini-nephrectomy is a minimally invasive procedure to remove kidneys from living donors through a single three-inch incision.

Bradley named head of proton beam center

By GWEN ERICSON

Jeffrey D. Bradley, M.D., associate professor of radiation oncology, has been named the first director of the Kling Center for Proton Therapy, a facility for treating cancer patients with a new, highly precise form of radiation therapy.

The center is scheduled to open in summer 2009 at the Siteman Cancer Center. The facility will be located across the street from the Center for Advanced Medicine on Euclid Avenue.

Bradley, a radiation oncologist specializing in lung and esophageal cancer, is an international expert in the application of stereotactic body radiation therapy, which delivers a tightly focused high radiation dose to a small area. Bradley also is known internationally for breakthroughs in using positron emission tomography (PET) scanning to enhance radiation therapy treatment planning.

The treatment center is named for S. Lee Kling, a director of National Beverage Corp. since 1993. He has served as chairman of the board of the Kling Co., a merchant banking company, since 2002 and is on the board of directors at Barnes-Jewish Hospital. Kling led a fundraising effort that obtained \$2.3 million to fund research and use of the

proton facility. He became interested in proton beam radiation when the therapy was used to eradicate a tumor in his eye.

The Kling Center will be the first single-vault proton therapy center in the country, and the equipment will be assembled and given its first trial at the School of Medicine. The United States has five larger-scale proton therapy centers, but this new streamlined version, developed by Littleton, Mass.-based Still Rivers Systems, costs about one-fifth the \$100 million or greater price tag of the older type of proton therapy center and can fit in a much smaller area.

The proton beam device emits positively charged atomic particles. As the protons travel through tissues, they release most of their energy in a concentrated burst near the end of their range, which allows the power of the proton beam to be focused extremely precisely and spares surrounding structures.

Proton beam therapy is especially suitable for childhood cancers and cancers that occur in close proximity to critical tissues such as the brain, eye or the spinal cord. In addition, some types of bone and cartilage cancers don't respond well to X-ray beam radiation but respond to proton beam radiation.



Bradley

University Events

Art student Weaver wins prestigious MFA Grant

BY LIAM OTTEN



One of Ian Weaver's works on display in the MFA Thesis Exhibition at Kemper is "Black Power Helmet" (2008).

Ian Weaver, who earned a master of fine arts degree from the Sam Fox School of Design & Visual Arts in May, has won a \$15,000 MFA Grant from the Joan Mitchell Foundation in New York.

Weaver was one of 15 students nationwide to receive the award, and the first ever from Washington University.

Though primarily a painter and printmaker, the Chicago native focused this past year on multimedia installations informed by anthropology and archaeology as well as African-American and European history.

"A Partial History of the Black Bottom Community" — on display in the Sam Fox School's 2008 MFA Thesis Exhibition — is composed of 11 works in a variety of media that together form a fictionalized account of Chicago's Black Bottom neighborhood.

The historically African-American enclave, where Weaver's mother grew up, was located just southwest of the Loop but, in the late 1950s, was bulldozed to make room for the Dan Ryan Expressway.

"I wanted to marry an accepted historical format, the educational museum, with the story of my mom's community," Weaver said, adding that he also created museum-style signage and an audio commentary. The idea is to construct a convincing yet fractured and nonlinear history that subverts established historical narratives while also highlighting their frequent omissions.

"I have approached this re-imagining of history as a process of visual layering," he said. "Disparate objects, artifacts, documents and ephemera gain their power within the context of the larger project. They tell a story that occupies a certain time period but travels backward and forward, into and out of our own time."

Prior to coming to WUSTL, Weaver earned a bachelor of fine arts degree from Columbia College in Chicago and has shown his work in many of the city's premier alternative exhibition spaces, including The Riverside Arts Center, the Hyde Park Art Center and Anchor Graphics. This past spring, the Packer Schopf Gallery featured a series of trompe l'oeil paintings based on birth certificates, divorce decrees and other family documents.

The Joan Mitchell Foundation was established in 1992 shortly after the death of Joan Mitchell, a renowned abstract painter. The foundation strives to aid and assist the needs of contemporary artists and to demonstrate that painting and sculpture are significant cultural necessities.

The MFA Grant Program was created in 1997 to help recent graduates further their artistic careers and to aid the transition from academic to professional studio work. To date, the foundation has awarded 133 MFA Grants, which may be used for anything art-related.

The MFA Thesis Exhibition remains on view through next Monday at the Mildred Lane Kemper Art Museum. For more information, call 935-4523 or visit kemperartmuseum.wustl.edu.

Callaloo workshop presents four prominent African-American writers

Four faculty members from the 2008 Callaloo Creative Writing Workshops will read from their poetry and fiction at 7 p.m. Aug. 6 in Duncker Hall, Room 201, Hurst Lounge.

The event is free and open to the public. A reception for the authors will immediately follow.

Launched in 1976 by editor Charles H. Rowell, Callaloo is the premier African-American and African literary journal, publishing a rich mixture of fiction, poetry, plays, critical essays, interviews and visual art from the African diaspora.

The annual Callaloo Creative Writing Workshops — an annual national event hosted this year by WUSTL from Aug. 3-16 — are designed to assist new and developing writers by providing inten-

sive and individual instruction in the writing of fiction and poetry.

The Aug. 6 event will feature readings by poets Tracy K. Smith and A. Van Jordan and by fiction writers Mat Johnson and Nelly Rosario.

Smith is the author of "The Body's Question" (2003), which won the Cave Canem Poetry Prize and a Whiting Writers Award, and "Duende" (2007), which received the James Laughlin Award from the Academy of American Poets.

Her work has appeared in numerous journals as well as in the anthologies "Poetry 30," "Poetry Daily" and "Autumn House." She earned degrees in English and creative writing from Harvard College and Columbia University and teaches creative writing at

Princeton University.

Jordan is the author of "Rise" (2001), "M-A-C-N-O-L-I-A" (2004) and "Quantum Lyrics" (2007). His numerous honors include the Whiting Writers Award, the Anisfield-Wolf Book Award, the PEN/Oakland Josephine Miles Award and the Pushcart Prize.

Jordan teaches at the University of Texas at Austin and serves on the faculty at the MFA Program for Writers at Warren Wilson College.

Johnson is the author of three books — "Drop" (2000), "Hunting in Harlem" (2003) and "The Great Negro Plot: A Tale of Conspiracy and Murder in Eighteenth-Century New York" (2007) — as well as the graphic novels "Papa Midnight" (2006) and

"Incognegro" (2008). He earned an MFA in creative writing from Columbia University and teaches in the Creative Writing Program at the University of Houston.

Rosario is author of "Song of the Water Saints" (2002), a novel tracing the lives of three generations of Dominican women and winner of the PEN Open Book Award.

Other honors include a Barbara Deming Memorial Fund Fellowship, The Bronx Writers' Center Van Lier Literary Fellowship,

two National Arts Club Writing Fellowships, the Hurston/Wright Award in Fiction and the National Teachers in English Writing Award.

In addition to the faculty readings, the Callaloo Creative Writings Workshops will conclude with two nights of student readings at 7 p.m. Aug. 14 and 15, also in Hurst Lounge.

For more information, e-mail Dorothy Negri at dlnegri@arts.wustl.edu or call 935-5190.

Little Miss Sunshine • Summer Jazz at Holmes

"University Events" lists a portion of the activities taking place July 17-Aug. 13 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).

Film

Wednesday, July 23

7 p.m. Summer School Film Series. "Little Miss Sunshine" (2006). Lab Sciences Bldg., Rm. 250. 935-6720.

Lectures

Thursday, July 17

4 p.m. Vision Science Seminar Series. "The Role of Pax6 in Adult Zebrafish Retinal Regeneration." Ryan Thummel, research asst. prof., U. of Notre Dame. Maternity Bldg., Rm. 725. 362-3315.

Friday, July 18

7:30 a.m.-6 p.m. Endoscopy CME Course. "St. Louis Live Therapeutic Endoscopy Course." Cost: \$195 for physicians, \$150 for residents, fellows and allied health professionals. Eric P. Newman Education Center. To register: 362-6891.

7:30 a.m.-6:15 p.m. School of Medicine CME Course. "New Concepts in Asthma and Other Immune Mediated Diseases." (Continues 7 a.m.-12:30 p.m. July 19.) Cost: \$350 for physicians, \$250 for allied health professionals. Sheraton St. Louis City Center, 400 S. 14th St. To register: 362-6891.

7:30 p.m. Saint Louis Astronomical Society Lecture. "Stars and the Abundances of the Elements." Katharina Lodders, prof. of earth & planetary sciences. McDonnell Hall, Rm. 162. 935-4614.

Thursday, July 24

2 p.m. Earth & Planetary Sciences Colloquium. "Influence of Macrophytes and Macrofauna on Saltmarsh Biogeochemistry." Carla Koretsky, assoc. prof. of aqueous geochemistry and biogeochemistry, Western Mich. U. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

Friday, July 25

9:15 a.m. Pediatric Grand Rounds. "Hold Me Back: CXCL12 and Leukocyte Trafficking at the Blood-Brain Barrier." Robyn S. Klein, asst. prof., internal medicine and infectious diseases. Connor Aud., Farrell Learning and Teaching Center. 454-6006.

Saturday, July 26

7:15 a.m.-4 p.m. Oncology CME Course. "Review of the Presentations from the ASCO Annual Meeting 2008." Cost: \$85. Ameristar Conference Center, One Ameristar Blvd. To register: 362-6891.

Friday, Aug. 1

8:15 a.m.-5 p.m. Cerebral Palsy CME Course. Annual Cerebral Palsy Conference. "Building the Road to Independence." (Continues 8 a.m.-4:30 p.m. Aug. 2.) Cost: \$325 for physicians, \$255 for allied health professionals, \$100 for non-medical attendees. Eric P. Newman Education Center. To register: 362-6891.

Thursday, Aug. 7

4 p.m. Vision Science Seminar Series. "Mechanisms of Circuit Assembly and Function in the Mammalian Retina." Daniel Kerschensteiner, postdoctoral fellow, U. of Wash. Maternity Bldg., Rm. 725. 362-3315.

Music

Thursday, July 17

8 p.m. Summer Jazz at Holmes. Vince Varvel, guitar. Ridgley Hall, Holmes Lounge. 862-0872.

Thursday, July 24

8 p.m. Summer Jazz at Holmes. Miles Vandiver, drums. Ridgley Hall, Holmes Lounge. 862-0872.

Friday, Aug. 8

8 p.m. Summer Jazz at Holmes. Miles Vandiver, drums. Ridgley Hall, Holmes Lounge. 862-0872.

And more

Wednesday, Aug. 6

7 p.m. Callaloo Creative Writing Workshops reading. Poets Tracy K. Smith and A. Van Jordan; fiction writers Mat Johnson and Nelly Rosario. Duncker Hall, Room 201, Hurst Lounge. 935-5190.

Sports

Directors' Cup finish WUSTL's highest ever

The Department of Athletics finished second in the 2007-08 United States Sports Academy Directors' Cup Division III standings, as announced by the National Association of Collegiate Directors of Athletics, United States Sports Academy and USA Today.

The second-place finish is the highest in school history and the Bears' sixth-straight top 10 appearance: 2002-03 (fifth), 2003-04 (ninth), 2004-05 (third), 2005-06 (seventh), 2006-07 (fifth).

WUSTL, in first place after the fall and winter standings, accumulated a school-record 899 points, breaking the record points total of 845 set in 2006-07. WUSTL won a school-record three national championships and had 14 teams compete in NCAA Tournament action.

Schael gets AD honors

Director of Athletics John Schael was named the AstroTurf Division III Central Region Athletic Director of the Year at the National Association of Collegiate Directors of Athletics 43rd Annual Convention in Dallas. Schael, who recently completed his 30th year on the Danforth Campus, also received the honor in 2000.

Since his arrival in 1978, WUSTL has 129 NCAA appearances, 124 University Athletic Association (UAA) titles and 15 national championships.

The University had a banner year in 2007-08, picking up a

school-record three national championships and four UAA titles.

More accolades for Leonard-Fleckman

Recent graduate Morgen Leonard-Fleckman of the women's track and field team was named to the ESPN the Magazine College Division Academic All-America first team, as selected by the College Sports Information Directors of America.

Leonard-Fleckman becomes the 12th WUSTL track and field student-athlete to be named to the Academic All-America team. She finished her career as a four-time All-America honoree and holds school records in both the indoor and outdoor pole vault.

Stein named to NCAA advisory committee

Sophomore Isaac Stein of the national champion men's tennis team has been named to the NCAA Division III Student-Athlete Advisory Committee (SAAC). Stein, the representative for the University Athletic Association, will begin his term immediately and continue through May 1, 2011.

The SAAC committee is made up of 24 members, including one student-athlete from each of the Division III Student-Athlete Advisory Committee conferences represented in the partnership program and four members from independent institutions representing each of the four geographical regions.

Next generation of metals industry leaders prepared by Olin School

By CYNTHIA GEORGES

The first participants enrolled in the Strategic Metals Management Program — an Olin custom executive program designed to train the next generation of metals industry leaders — graduated June 20 in ceremonies at the Knight Center for Executive Education.

The program, offered by the Metals Service Center Institute (MSCI) in partnership with the Olin Business School, has two additional groups enrolled and is building a third.

Twenty-eight graduates attended five weeks of classes over an 18-month period, covering five content modules: strategy, organizations and shareholder value; achieving market focus; driving operational excellence; creating value and sustaining profitable growth; and leading high-performance organizations.

Olin's top-rated senior faculty teach the modules. All classes, case studies and lectures are tailored to equip mill and service center executives with the tools and knowledge to boost their performance and prepare them to assume senior executive roles.

Participating executives also have the opportunity to hear from visiting industry executives and, upon completing the program, are awarded a certificate of completion.

"This program has pushed both metals industry leaders and the Olin Business School to new levels of innovation and creativity

in executive education and development," said Ken Bardach, associate dean and the Charles and Joanne Knight Distinguished Director of Executive Programs at Olin.

"We will continue to improve and innovate the program as we go forward. And we hope to forge an even stronger relationship with the MSCI, the graduating executives and their companies in the future," Bardach said.

"This is an important milestone for our industry and for the Metals Service Center Institute," said Norman E. Gottschalk Jr., MSCI's chairman and also president and CEO of Marmon/Keystone Corp. "These individuals have completed a rigorous course of study and are now better prepared for senior management roles than those who have gone before them. I am immensely proud of their accomplishments."

One measure of the program's success is that the third class was oversubscribed, and there is a waiting list for the fourth class, expected to begin studies in 2009, Bardach said.

MSCI members constitute the largest single group of metals producers and processors in North America and service some 300,000 manufacturers and fabricators.

Olin has offered custom programs since 1993 and is one of only three business schools in the world rated as "excellent" by The Economist for both customized and open-enrollment executive education programs.



Golden grant celebration Martha Storandt, Ph.D., professor of psychology in Arts & Sciences (seated top left), enjoys the opening remarks of a two-day conference, which began May 28, celebrating the 50th anniversary of a landmark National Institutes of Health (NIH) Aging and Development Training Grant. WUSTL received the grant in 1958. Storandt, who served more than two decades as principal investigator for the grant, looks on as current principal investigator David Balota, Ph.D., professor and associate chair of psychology in Arts & Sciences, addresses the conference. Balota credits Storandt and the late Jack Botwinick, Ph.D., professor emeritus of psychology and of neurology, with playing pivotal roles in leading the training program, which nurtured aging studies on campus and led to the formation of the University's highly regarded Aging and Development Program. Seated next to Storandt is Leonard Jakubczak, Ph.D., who was one of the first predoctoral trainees appointed in 1958.

Updated Danforth Campus employee handbook posted online

An up-to-date version of Washington University's Danforth Campus Employee Handbook is available online at the WUSTL Human Resources Web site.

This online version replaces the hard-copy version of the handbook from November 2002. To help make the most up-to-date information accessible to all Danforth Campus employees, the most current version of the handbook will be available online only.

WUSTL employees can view the updated handbook by visiting hr.wustl.edu (click on "Workplace Support/Policies & Procedures," then "Employee Handbook") or [aisweb.wustl.edu/hr/empld.nsf/pages/Files/\\$file/hrhbk.pdf](http://aisweb.wustl.edu/hr/empld.nsf/pages/Files/$file/hrhbk.pdf).

The most recent edition of the Employee Handbook includes changes in the University's time-off policies for Danforth Campus employees, effective July 1, 2008.

• Current vacation plan. Staff members hired on or before June 30, 2008, have been grandfathered into the current Danforth Campus vacation policy. These individuals will continue to receive up to 22 days of vacation each year and will be able to carry a balance greater than 22 days throughout the year. They will not be able to begin the fiscal year with a vacation balance greater than 22 days.

• New vacation plan. Staff members hired on or after July 1, 2008, receive up to 22 days of vacation but may only carry a vacation balance of up to 22 days at any one time.

• Sick time. The sick time plan will remain the same for existing and new staff members. However, sick time will be available for the employee's own illness only and is no longer available for the first day of an emergency illness of a

family member as it has in the past.

• Vacation and sick time accrual. The method of accruing both vacation and sick time has been changed. Staff members now accrue vacation and sick time based on time paid rather than based on standard hours. As a result, staff members on a paid leave of absence will now be able to accrue time off during the time they are being paid.

• Funeral leave. Stepsiblings have been added to the funeral leave policy, and the day of the funeral can be taken as leave. Staff members receive the day of the funeral for the death of a grandparent instead of up to three days.

Refer to the online employee handbook for further details on these policy changes and several others. For more information, contact the Office of Human Resources at 935-5990.

Child care subsidies available for first time for doctoral students

For the first time, doctoral students on both the Danforth and Medical campuses may apply for subsidies to help defray the cost of child day care.

The first subsidies have been awarded and will be paid in the form of fellowships in fall 2008 and spring 2009. The awards are based on financial need and are granted to doctoral students in Arts & Sciences, including the Division of Biology and Biological Sciences, as well as the Olin Business School, the School of Engineering & Applied Science and the George Warren Brown School of Social Work.

This first year, 10 students applied and three were awarded a subsidy to help defray the cost of child day care.

The benefit is a direct result of the efforts of the Graduate Student Senate (GSS), said Sheri Notaro, Ph.D., associate dean of the Graduate School of Arts & Sciences. "Several years ago, the GSS conducted a survey that indicated that some graduate students needed help to afford the cost of child day care," Notaro said.

"The GSS presented its findings to the Graduate Council of Arts & Sciences, the governing body of doctoral education at

Washington University. Dean Robert Thach then coordinated with the other schools to craft the Child Day Care Subsidy policy," Notaro said.

"It was really graduate students listening to the needs of other graduate students that helped get this program established," said Thach, Ph.D., who stepped down June 30 as dean of the Graduate School of Arts & Sciences after 15 years in that position. "We have some extraordinary graduate and professional students who took advantage of the University's tradition of encouraging graduate-student leadership and shared governance. They took a leading role in defining a concern among some of our students and making sure that concern was addressed."

The Graduate School of Arts & Sciences will manage the administration of the subsidy in consultation with the other schools. To be considered for the subsidy, a student must meet eligibility requirements, including being enrolled full-time in a doctoral program and demonstrating financial need.

For more information about eligibility requirements and an application, contact Notaro at 935-6880.

Debate volunteers sought, but hurry

By NEIL SCHOENHERR

Due to security guidelines provided by the Commission on Presidential Debates, the application deadline is now 11:59 p.m. Wednesday, July 23, for WUSTL community members wishing to volunteer to support the Oct. 2 vice presidential debate at the University.

For more information and to apply, go to debate.wustl.edu. Applications cannot be accepted after July 23.

Possible responsibilities for volunteers range from providing

administrative support to assisting with tickets and credentials to helping national news media. Only a limited number of volunteers will have access to the debate hall.

Volunteers will be selected based on the quality of their application materials and interest level.

All volunteers also are required to pass a background check.

All WUSTL full-time and part-time students, postdoctoral scholars, faculty and staff are eligible to apply.

Cutz

— from Page 1

ly to Florida when he was 6. Hyperinflation in his native country had spiraled to 400 percent, prompting his parents, both engineers, to pack up their two sons and seek life in a more stable economy. They settled in Coral Springs, Fla., where Cutz made a name for himself.

An outstanding student and prize-winning debater, Cutz thrived in competitive environments.

In 2006, as a high-school senior, he was recognized with a Silver Knight Award, one of the top student achievement awards given in the United States. It is presented annually to students in South Florida who not only maintain high grades but also contribute their talents to better their schools and communities.

Cutz's community service included expanding and coaching debate programs at the middle school he attended, Sawgrass Springs, as well as two other schools nearby. That these programs continue to thrive has been a point of pride for Cutz. And their success has motivated him to accomplish even more.

"I do something I enjoy, I see it benefiting others and I get inspired to do more," he said. "I try to think positively about everything that happens, even things most people would be very bitter

and upset about. It's just the way I've always been."

This optimism was seriously tested in November 2006 when Cutz was diagnosed with cancer. Two surgeries to remove a malignant mass in his abdomen and two rounds of chemotherapy temporarily disrupted his studies. He took a medical leave from his WUSTL studies in spring 2007 and missed four weeks of classes last fall. He took time off again this past spring to complete treatment.

Thankfully, it's all behind him now. A follow-up visit with his oncologist in early May sent Cutz packing his bags for Lisbon. Doctors gave him the all-clear sign: cancer-free and cured.

"Fortunately, my professors were great during my absences, and all have worked with me to make sure that I had enough time and information to finish my courses," said Cutz, an avid runner.

"But what I missed most were my extracurriculars. I tried to stay on campus as much as I could to avoid missing out on everything I love to do," he said.

Those activities have included working with the Student Diversity Initiative, now called Connect 4, which Cutz founded in 2007 to raise student awareness of issues regarding social justice, and his performance on WUSTL's mock trial team.

"My time at the University — my dream school — has been amazing," said Cutz, an Ervin

Scholar. "The friends I've made, the knowledge I've gained and the skills I've learned are priceless. I am incredibly glad to be at Washington U. and proud to tell everyone where I go."

The feeling has been mutual, said James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences. McLeod helped establish the Ervin Scholars Program more than 20 years ago to attract talented students like Cutz.

"Fernando is a terrific human being — smart and caring," McLeod said. "Since he has been here, he has given of himself in so many ways. He doesn't just participate, he pitches in and helps to carry the weight of anything he's involved in. And," McLeod said, "he's unflappable."

Whatever Cutz decides to engage in next, it most assuredly will inspire and benefit others. He learned just last week he secured an internship with the Commission for Presidential Debates and soon will help prepare for the vice presidential debate, which WUSTL will host Oct. 2 on campus.

But for now, he is relishing a place — Lisbon — known as the city of explorers.

How apropos. Cutz, whose first name, Fernando, means "adventurer," has boldly discovered and embraced far more of life than his age might suggest.

Given who he is, where he has been and what he has done, he is surely on a path to success.

Olin forms alliance with top management school in India

BY SHULA NEUMAN

The Olin Business School and the Indian Institute of Management Calcutta (IIMC) have created a partnership designed to advance research, teaching and cultural understanding.

The collaboration opens opportunities for students and faculty at both institutions, where the schools plan to organize joint programs in business and industry management training.

This agreement facilitates the creation of joint publications, conferences and research projects. It also establishes new and innovative exchange programs for faculty and students.

"We are very excited about our new connection with the Indian Institute of Management Calcutta," said Mahendra Gupta, Ph.D., dean of the business school and the Geraldine J. and Robert L. Virgil Professor of Accounting and Management. "Both schools excel in business education and research, and the ability to join forces will strengthen our reputations as global leaders."

The institutions already are planning for an international immersion program — a capstone experience for IIMC's Postgraduate Program in Management for Executives.

The Indian students will come to St. Louis for four weeks to attend classes at Olin and undertake consulting projects or internships with area firms.

"This kind of exchange program is invaluable to our students," Gupta said. "It will expose

them to a different culture, help them understand international business practice and consider cross-cultural management in an Indian business context. It is an experience that will prove invaluable to our executive students' ability to thrive in the global marketplace."

The Olin Business School already has connections with several other business schools around the world. In 2002, Olin became one of the first American business schools in China with its highly successful Executive MBA program in Shanghai in collaboration with Fudan University. The Financial Times ranked WUSTL's Shanghai-EMBA first in China and seventh globally.

In addition to Fudan University, Olin has a partnership with the Cass Business School in London, where WUSTL's undergraduate business students spend an intensive semester studying and interning with some of the world's leading companies.

Olin also has engaged in programs with ESADE University in Spain and Fundacao Dom Cabral in Brazil.

The IIMC was established in 1961 as India's first national institute for postgraduate studies and research in management.

Over the years, IIMC has grown into a mature institution with a global reputation, imparting high-quality management education. It has played a pioneering role in professionalizing Indian management through its postgraduate and doctoral programs, executive training programs, research and consulting activities.



Ceremony in Singapore Chancellor Mark S. Wrighton and WUSTL Trustee David P. Conner (left) present Lee Seng Tee, a director of the Lee Group of Companies, with an honorary doctor of humane letters degree in Singapore June 12. Lee, who is recognized internationally as a successful business executive, major philanthropist and patron of the arts, could not attend Commencement ceremonies in May because of health reasons. Lee's commitment to improving people's lives has been demonstrated through both the generosity of the Lee Foundation, which Lee directs, and his personal support of and passion for promoting higher education worldwide. Lee Group of Companies is a Singapore-based conglomerate of firms in industries that include rubber, pineapple, banking and investments.

WASHINGTON UNIVERSITY PHOTO

Paredes confirmed as SEC Commissioner

By unanimous consent, the U.S. Senate has confirmed Troy Paredes, J.D., professor of law, as Securities and Exchange Commission (SEC) Commissioner for a five-year term.

"This extraordinary appointment recognizes his outstanding reputation and accomplishments as a teacher, scholar and lawyer in the field of corporate and securities law," said Kent Syverud, J.D., dean and the Ethan A.H. Shepley University Professor.

Paredes, whose term ends

June 5, 2013, is filling the seat vacated by Paul Atkins.

Paredes is the co-author (beginning with the fourth edition) of a leading securities law treatise (with Joel Seligman and the late Louis Loss) and has written extensively on a wide range of topics, including the importance of a balanced approach to securities regulation.

Paredes earned a bachelor's degree in economics from the University of California, Berkeley, and a law degree from Yale University.

Weight

— from Page 1

as obese.

Following earlier studies demonstrating that mice and rats live longer, healthier lives when on a calorie-restricted diet, the CALERIE study is designed to determine whether taking in fewer calories over a long time period will slow down or reverse some of the common markers of aging and disease.

"But rats don't have weekends the way people do," Racette said. "On weekends, human lifestyle patterns can be very different. People have social events, parties to attend, and if they have children who play sports, they might be at games all day long, relying on concession stands for food."

Study participants were divided into three groups: The first lowered their daily calorie intake by 20 percent, a second increased daily physical activity by 20 percent and a third control group did not change diet or activity levels. All three groups were monitored for one year. They kept food diaries, tracked exercise with accelerometers and were weighed regularly. Racette said people in the study didn't always realize they were eating significantly more food on weekends.

"It was surprising how consistent the findings were," she said. "We also were surprised by the dramatic way in which weekends continued to slow weight loss throughout the course of the study."

Before the interventions began, the researchers established "baselines" for each study participant's exercise and eating habits. This preintervention data determined that participants consumed the most calories on Saturdays. An average of 36 percent of their total calories came from fat on Saturdays, but less than 35 percent came from fat during the rest of the week. The typical weekend weight gain before the diet and exercise interventions began would have led to an average increase of 9 pounds a year.

When study participants were asked either to cut calories by 20 percent or to increase activity by a like amount, the pattern remained the same. Those in the calorie-restriction group took in more energy on Saturday. Those in the exercise group ate more on both Saturday and Sunday. As a result, people in the calorie-restriction group stopped losing weight on weekends, and those in the exercise group actually gained weight on weekends.

"People on diets often don't lose as much weight as we would expect, and this finding helps to explain why," Racette said.

Tumors

Nanoparticles leave healthy cells unharmed

— from Page 1

case, we achieved 18 to 19 percent for our nanoparticles," said Andreas Nystrom, Ph.D., a postdoctoral associate, supported by the Knut and Alice Wallenberg Foundation, who worked on the project.

However, the nanoparticles carrying the doxorubicin were not as effective at killing cancer cells because, in these initial nanoparticles, no targeting groups were included and the entire drug payload of the nanoparticle is not released.

The identification and attachment of targeting ligands onto the nanoparticles and the rate and extent of drug release are now what the researchers will concentrate on and seek to improve. Ligands in this application are composed of peptides and antibodies that bind to specific cell receptors overexpressed in cancer cells.

The cell studies were performed in vitro by Zhiqiang (Jack) Xu, Ph.D., a postdoctoral associate, together with Jeff Leonard, M.D., assistant professor in the Department of Neurological Surgery, and Sheila Stewart, Ph.D., assistant professor in the Department of Cell Biology and Physiology, both in the School of Medicine.

Ultimately, in vivo, the nanoparticles are expected to target the tumors through the use of active targeting ligands and also through passive diffusion, as particles are well known to be taken up selectively into tumors by a process called the enhanced permeability and retention effect.

The amount of drug released from the nanoparticles "might be enough for the intended therapy, if side effects are limited by selective tumor targeting," Nystrom said.

For these drug-filled nanoparticles to be effective for treating brain tumors, one challenge remains — decorating the nanoparticles with signatures that direct them to the tumors and away from healthy cells, a process known as tissue-specific targeting. Once at-

"The results are highly promising and are allowing us to move forward to a fully functional, tumor-targeted drug delivery device. The key to making this happen is the interdisciplinary team of investigators, each of whom brings a different chemical, biological or medical expertise."

KAREN L. WOOLEY

tached to the tumor, the nanoparticles can release their deadly contents, killing the cancer cells and leaving the healthy cells unharmed.

"Everything depends on getting the nanoparticle to the tissue (tumor) of choice," said Nystrom.

Wooley agrees.

"We have been studying these nanoparticles for some time now as a platform technology, achieving high radiolabeling efficiencies and demonstrating variable bio-distributions through a collaboration with the laboratory of Professor Mike Welch in the Department of Radiology," she said. "Now, we are poised to take advantage of the progress made to develop the particles for diagno-

sis and treatment of several diseases.

"In this latest work, the nanoparticles were designed with thermally tunable core properties to serve as a host system that retains drug molecules at room temperature and then releases the cargo at physiological temperature, with a controlled drug release profile," Wooley said.

"The results are highly promising and are allowing us to move forward to a fully functional, tumor-targeted drug delivery device. The key to making this happen is the interdisciplinary team of investigators, each of whom brings a different chemical, biological or medical expertise," she said.

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Washington University in St. Louis

Notables

Arts & Sciences staff members recognized

To recognize the creative contributions and exemplary performance of its staff, Arts & Sciences presented eight of its own with the Arts & Sciences 2007-08 Outstanding Staff Award during a recent ceremony and reception in the Women's Building Formal Lounge.

Edward S. Macias, Ph.D., presented the awards May 1 for the last time as dean of Arts & Sciences. He stepped down June 30 after 14 years in the position.

Macias, who becomes provost and executive vice chancellor for academic affairs following a six-month sabbatical, presented the annual awards to non-teaching personnel who have contributed significantly to the effectiveness of the teaching, advising, counseling and research efforts in Arts & Sciences.

In addition, Macias presented the Dean's Award to Paul M. Norman, who recently retired as the Danforth Campus grounds manager/horticulturist, for his support, service and commitment to Arts & Sciences and the entire University. The Dean's Award is given to a University staff member housed outside of Arts & Sciences who has made key contributions to the school.

Macias, who initiated the awards ceremony seven years ago to recognize outstanding Arts & Sciences staff who help make Washington University a stronger institution, said the event was something he was very proud of.

"Over the past seven years, it has been a great

privilege to recognize some of our star staff members," said Macias, the Barbara and David Thomas Distinguished Professor in Arts & Sciences. "The staff in Arts & Sciences are key to the success of our students and our faculty; our ability to succeed is attributed to their excellent work."

All honorees received a framed award and a \$300 gift certificate to Saint Louis Galleria.

The following are recipients of the Arts & Sciences Outstanding Staff Award:

- Debra Barco, project coordinator in the Center for Inquiry in Science Teaching & Learning;
- Henry Biggs, associate dean in the College of Arts & Sciences and director of undergraduate research;
- Mindy Danner, secretary in the Department of Philosophy;
- Andrew Johnstone, business manager in the Department of Biology;
- Donna Kepley, administrative assistant in the Women & Gender Studies Program;
- Jane McConnell, staff research associate in the Department of Psychology and assistant to the Dean for Academic Planning in Arts & Sciences;
- Christine Monteith, grants and accounting supervisor in the Department of Physics; and
- Krystal Mowery, administrative assistant in International and Area Studies.

To read more about the award recipients, go to artsci.wustl.edu/node/1930.

Two share 2008 Spector Prize

BY TONY FITZPATRICK

Each year, the Department of Biology awards a prize in memory of Marion Smith Spector, a 1938 WUSTL graduate who studied zoology under the late Viktor Hamburger, Ph.D., professor of biology and a prominent developmental biologist who made many important contributions while a faculty member at the University.

This year, the Spector Prize was shared by two recipients: Jason Metcalf and Aashish Manglik. Metcalf and Manglik were nominated by their research mentors for their outstanding work in research and the substantial contributions they made to the field of that work.

Metcalf worked in the lab of Katherine Parker Ponder, M.D., professor of medicine in the Department of Medicine. Metcalf's

thesis was titled "Excessive Phosphorylation of STAT1 Leads to Reduced Chondrocyte Proliferation and Shortened Bones in Mucopolysaccharidosis VII."

He has begun applying to M.D./Ph.D. programs this summer and will continue his work in Ponder's lab during that process.

Manglik worked with Jeffrey S. McKinney, M.D., Ph.D., assistant professor of pediatrics, on a project titled "Mechanisms Mediating Salmonella-Cancer Cell Interactions."

He is planning to attend medical school or an M.D./Ph.D. program in the fall.

As part of the departmental recognition of this outstanding work, these two students presented their work at a special Biology Department Seminar April 29 and were honored at a reception immediately following.

For the Record

Of note

Carolyn Baum, Ph.D., the Elias Michael Director of the Program in Occupational Therapy and professor of occupational therapy and of neurology, received an honorary doctorate from the University of Haifa in Israel June 4 in recognition of her extensive scientific achievements in occupational therapy and translational research; for advancing the field of occupational therapy to the forefront of rehabilitative medicine; for fostering young research and for integrating researchers from Israel and the University of Haifa

into the international academic arena. ...

Tammie L.S. Benzinger, M.D., Ph.D., assistant professor of radiology, was named the 2008 American Roentgen Ray Society/Elio Bracco scholar. She plans to use the scholarship to build collaborations between WUSTL and the University of Illinois at Urbana-Champaign that will bridge multiple clinical and basic research disciplines to apply MRI to better understand the microstructural environment of the central nervous system. ...

J. Perren Cobb, M.D., professor of surgery, has received a three-year, \$450,000 grant from the National Institute of General

Medical Sciences for research titled "U.S. Critical Illness and Injury Trials Group." ...

Kerri Morgan, instructor in the Program in Occupational Therapy, was named to the U.S. Paralympic Track Team. She is among 27 men and 17 women who will compete on the track team in the 2008 Paralympic Games in Beijing Sept. 6-17. In the team trials June 12-15 in Tempe, Ariz., Morgan placed third (second American) in the 100-meter event and second (first American) in the 200-meter event. More than 4,000 elite athletes from around the world with a physical disability are expected to compete in the 2008 Paralympic Games.

Campus Author

Robert M. Senior, M.D., the Dorothy R. and Hubert C. Moog Professor of Pulmonary Diseases in Medicine and professor of cell biology and physiology

Fishman's Pulmonary Diseases and Disorders, Fourth Edition

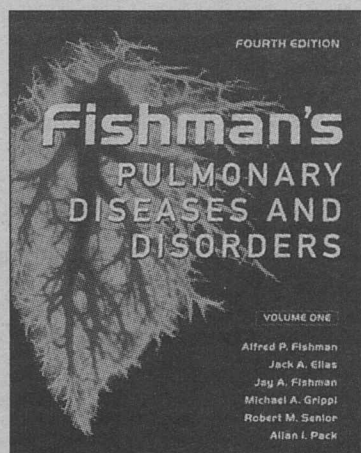
McGraw-Hill Professional (2008)

The newly released fourth edition of Fishman's Pulmonary Diseases and Disorders presents a comprehensive overview of a full spectrum of lung diseases as well as information on how they are diagnosed and treated.

Included in the two-volume textbook's 157 chapters are sections that provide background on the physiology, cell biology and immunology of the lung and signs and symptoms of respiratory diseases.

The fourth edition also contains information on current imaging techniques as well as sections about sleep and disordered breathing, recently emerging infectious diseases, such as SARS, and decision-making and ethics.

One of the great strengths of this book is the illustrations, said Robert M. Senior, M.D., the Dorothy R. and Hubert C. Moog Professor of Pulmonary Diseases in Medicine and professor of cell biology and physiology, one of the co-editors and an author. Other co-editors include Alfred P. Fish-



man, M.D.; Jack A. Elias, M.D.; Jay A. Fishman, M.D.; Michael A. Grippi, M.D.; and Allan I. Pack, M.D., Ph.D.

"Ever since the first edition of this book in 1980, it has had fabulous pictures of X-rays, tissue specimens, microbiological samples and other images relevant to all aspects of the lungs, and especially the practice of pulmonary medicine," Senior said.

In addition to Senior, three School of Medicine faculty have written chapters in the new edi-

tion: Jeffrey J. Atkinson, M.D., assistant professor of medicine; Martin L. Mayse, M.D., assistant professor of medicine and of surgery (cardiothoracic); and Daniel B. Rosenbluth, M.D., professor of medicine and of pediatrics.

The editor-in-chief, Alfred P. Fishman, is the William Maul Measey Professor of Medicine and senior associate dean for program development at the University of Pennsylvania School of Medicine.

"Dr. Fishman is one of the icons of pulmonary medicine and physiology," Senior said. "He has been making major contributions to these fields for more than 50 years."

Senior dedicated the book to two longtime School of Medicine faculty: I. Jerome Flance, M.D., professor of clinical medicine, and Jack Pierce, M.D., professor emeritus of medicine.

The book will be available at the Bernard Becker Library at the School of Medicine and at the School of Medicine bookstore.

—Beth Miller

Construction Update

Construction Update is published periodically and provides information about the progress of major building and renovation projects. Information is provided to the Record by facilities management.

Danforth Campus

Danforth University Center

This project is on target to be ready for occupants to move in this month.

Village East

This project is scheduled for completion this month.

South 40 utilities relocation

New chilled water, electric, telecommunications, domestic water, fire protection water, fuel oil and sewer lines are being installed. Electric power was shut down on the South 40 in late May for the high-voltage work. The chiller has been demolished at Danforth and Mudd houses; new chilled water lines have been routed to same.

Medical Campus

Biotech Building

Facilities Engineering is in the process of restoring the Biotech Building on Scott Avenue. The front facade on Scott Avenue will be given a full restoration of tuck-pointing and caulking and a thorough cleaning of the decorative limestone. Work on Scott Avenue is expected to be completed in late August, with the remainder of the building to be completed by Nov. 1. Overhead protection at the entrances to the building has

been installed so that they can remain open while the work is being done. During this work, the sidewalk in front of the Biotech Building will be closed.

Biomedical Research Building

The major earthwork is complete. The drilled pier foundations are in place with 95 percent of the foundation work in place. Structural steel is erected to the fifth floor on the south end of the building over the MetroLink tracks and on the North-South Wing. Core and shell completion is scheduled for December 2009 with the WUSTL build-outs to follow.

Environmental Health & Safety Building

Programming is under way for a new building to house the Environmental Health & Safety functions, Radiation Safety, the machine shop and Building Services shops. The building will be located in the 4500 block of McKinley Avenue. It will be three stories tall, structured for one future floor. Construction should start in early 2009.

Genome Sequencing Data Center

The building on the corner of Newstead and Duncan avenues is substantially complete. The department has moved in and is in the process of setting up equipment.

Obituaries

Barrow, associate professor of clinical medicine, 84

Jack Barrow, M.D., instructor, assistant and associate professor of clinical medicine at the School of Medicine from 1955-2002, died July 5, 2008. He was 84.

Miller, associate professor of orthodontics, 73

Francis J. Miller, M.D., a part-time associate professor of orthodontics in the School of Dental Medicine from 1984-1990, died Friday, June 20, 2008, of cancer at his home in Washington, Mo. He was 73.

Washington People

Charles F. Hildebolt, Ph.D., is not fond of routine. Fifteen years into his career as a dentist in Beavercreek, Ohio, he quit to go back to school and try something else.

"Dentistry is OK — it's a great profession for people who have that temperament — but once I'd done procedures several thousand times, I just... I used to grit my teeth," says Hildebolt, professor of radiology. "Thank goodness my wife went along with my selling my dental practice and putting all that behind us."

At the time, Hildebolt had been active for many years in exploring Mammoth Cave in Kentucky, the world's longest known cave system.

"Just about every trip we were on, we explored and mapped virgin caves — caves humans hadn't



(From left) Dean Falk, Ph.D., the Hale G. Smith Professor and chair of anthropology at Florida State University; Rokhus Due Awe, Emanuel Wahyu Saptomo, Thomas Sutikana (part of the team that discovered the Hobbit and co-authors on Hobbit articles); and Charles F. Hildebolt, Ph.D., in the Liang Bua cave on Flores Island, Indonesia, where Hobbit was discovered.

COURTESY PHOTO

By MICHAEL C. PURDY

From mundane to momentous

Hildebolt went from filling teeth to discovering a human species

been in before that weren't on any of the maps," he says.

On the trips, Hildebolt met and became lifelong friends with Patty Jo Watson, Ph.D., and Red Watson, Ph.D., two WUSTL faculty members who are now retired. Patty Jo, the Edward Mallinckrodt Distinguished University Professor Emeritus, was an anthropologist at the Mallinckrodt Institute of Radiology, and Hildebolt was occasionally able to help her on digs in Mammoth Cave.

"They knew that I wasn't too happy with what I was doing, and Red and I used to exchange long letters," Hildebolt says. "He knew I was interested in taking courses in archaeology and anthropology, and he said, 'Well, maybe you should think about graduate school.'"

After exploring a number of options for graduate study, Hildebolt was most intrigued by WUSTL's physical anthropology program and the possibility of studying under Stephen Molnar, Ph.D., an expert in dental anthropology who now is professor emeritus of anthropology in Arts & Sciences.

Teeth might seem like an odd focus for an anthropologist, but their durability and the information they can reveal about eating habits and nutrition have made teeth a rich source of insights into humanity and its ancestors.

When he earned his doctorate from WUSTL in 1987, Hildebolt was hired as faculty.

"The University is such a great place to work," he says. "You get to work with the brightest and the best, the resources are the best in the world, and I'm never, ever bored."

Defending a discovery

In recent years, much of the excitement in Hildebolt's professional life has centered on a skeleton found in a cave on the Indonesian island of Flores in 2003. The skeleton came to be known as the "Hobbit" because her short stature and enormous

feet (nearly as long as her lower leg bones) evoke the diminutive protagonists in J.R.R. Tolkien's "Lord of the Rings" trilogy and its prequel, "The Hobbit."

Hildebolt wasn't a member of the team that originally unearthed the Hobbit. He became involved through Dean Falk, Ph.D., the Hale G. Smith Professor and chair of anthropology at Florida State University. Falk had examined a cast of the Hobbit's skull and agreed with the theories of the researchers who found the Hobbit: She said the skeleton likely was proof of a previously undiscovered species of human ancestors.

But claims of new human ancestors have historically been greeted with aggressive skepticism. Both to better test the group's hypotheses and to help prepare for heavy criticism, Falk asked Hildebolt and his colleagues to build a digital model of the Hobbit's skull with CT scans and other advanced imaging techniques. Because the living brain's structure shapes the interior of the skull, researchers could use their digital analysis of the inside of the Hobbit's skull to produce a three-dimensional approximation of her brain structure known as an endocast.

Skeptics had suggested the Hobbit was just a regular human suffering from microcephaly, a condition where the brain is abnormally small. Others, including the fossils' original discoverers, had wondered if the Hobbit was simply a pygmy form of a known human species rather than a distinct species. But when the Hobbit's virtual endocast was compared to en-

docasts of a pygmy brain and a microcephalic brain, scientists found very few similarities.

Since then, the skeptics have kept coming, and Hildebolt, Falk and others still are writing rebuttals.

"In this field, debates like this can go on for years, if not decades," Falk says with a wry chuckle. "Charles, who is one of the smartest people I know, has this wonderful sense of humor and is really sensitive to the nu-

"The University is such a great place to work. You get to work with the brightest and the best, the resources are the best in the world, and I'm never, ever bored."

CHARLES F. HILDEBOLT

ances. This lets him present our side of the debate in a way that's reasoned and does not give offense."

Investigating dental health

When he's not active in efforts to defend the Hobbit from skeptics, Hildebolt's research focuses on the effects of vitamin D on periodontal disease. He recently started analyzing data from a small pilot study where the experimental group was given regular oral supplements of vitamin D and calcium to see if these treatments promoted dental health.

"Vitamin D is known for its ability to reduce weakening of bones," he says. "But it also has anti-inflammatory effects, and these may be more important in terms of preventing periodontal disease."

Cavities are caused by oral bacteria, Hildebolt says, but the actual damage to the teeth is inflicted by immune inflammatory cells that attack those bacteria. In addition, scientists have recently learned that vitamin D can trigger the release of natural antibiotics that may help eradicate the bacteria causing the problem.

Early results suggest that the experimental group had improved dental health as a result of the vitamin D supplements. Hildebolt suspects that the recommendations for dietary intake of vitamin D will soon be going up.

"To get the maximum benefit from vitamin D, you need high blood serum levels of it, and the current recommended intake levels just aren't enough to reach those thresholds," he says.

Traveling adventures

Hildebolt holds an adjunct appointment in anthropology, where Glenn Conroy, Ph.D., professor of physical anthropology and of anatomy and neurobiology, credits him with "service above and beyond the call of duty to students and colleagues."

As an example, Conroy says that Hildebolt volunteered to go to Ethiopia in 1990 with Conroy's wife, Jane Phillips-Conroy, Ph.D., professor of physical anthropology and of anatomy and neurobiology. Their mission was to trap wild baboons and give them dental X-rays.

Hildebolt's adventuresome ways have slowed somewhat as he has aged. Now 64, he no longer goes on spelunking expeditions. And he hasn't been mountain climbing since his first child — his daughter, Nea — was born in 1978. Hildebolt's wife, Louise, a physician's assistant, was pregnant when he went to the summit of Mount McKinley with the Ohio State Mountaineers that same year.

"We were on the mountain for 37 days and spent something like 10 days in a snow cave," he says. "Another group on the other side of the mountain couldn't find a snow cave, and several people died. That was the last mountaineering trip I ever went on."

Hildebolt's primary hobby now is soccer. He plays in five "non-competitive" soccer games most weeks, including one with his son, Sean, on Tuesdays.

"I used to go the gym, but I didn't like that. It's boring and much too routine to just run around a track," he says. "I figured, why not do the stuff I loved to do when I was a kid? You know, run around, chase the ball and kick it? That's hard to beat."



(From left) Son, Sean; daughter, Nea; wife, Louise; and Charles Hildebolt in Holden Beach, N.C.

COURTESY PHOTO

Charles F. Hildebolt

Family: wife, Louise, 60; daughter, Nea, 29, a jewelry manufacturer and clothing designer living in Bali, Indonesia; son, Sean, 27, a new-home salesman in St. Louis

Book that helped inspire his career change: "Human Variation: Races, Types, and Ethnic Groups" by Stephen Molnar

Favorite place to eat: Annie Gunn's, Chesterfield, Mo.

Hobbies: soccer and scuba diving

Education: B.S., microbiology, 1966, Ohio State University; D.D.S., 1970, Ohio State University College of Dentistry; M.A., physical anthropology, 1985, Ph.D., physical anthropology, 1987, WUSTL