Exploring First Amendment rights
Forum brings journalists, filmmaker to campus

By Barbara Rea

Washington University in St. Louis

The First Amendment: "Congress shall make no law... abridging the freedom of speech, or of the press..."

spoken voices and personal recollections of journalists who have put their lives and reputations on the line in their quest for the truth, showing the power of the press in preserving democracy.


Guggenheim has produced film biographies on presidents John F. Kennedy, Lyndon B. Johnson and Harry S. Truman for their presidential libraries. His "journey to America" documented the arrival of immigrants to America via Ellis Island for the Public Broadcasting Service.

See Forum, page 2

Washington University in St. Louis

Aloft University Lofts project launched

By Liam Otten

University Lofts, $5.6 million rehabilitation project spearheaded by W. Patrick Schuchard, the E. Desmond Lee Professor for Community Collaboration. Lee (left) was presented with a key to the gallery by Chancellor Mark S. Wrighton.

The School of Art's new Des Lee Gallery was dedicated Jan. 25 as part of the opening celebration for University Lofts, a $5.6 million downtown redevelopment project spearheaded by W. Patrick Schuchard (center) and E. Desmond Lee Professor for Community Collaboration. Lee (left) was presented with a key to the gallery by Chancellor Mark S. Wrighton.

Washington University in St. Louis

United Way campaign goes over the top

By Christine Farmer

Washington University's employees surpassed the $414,000 goal for the 1999 United Way campaign, pledging about $414,000, according to Ann B. Pressett, director of employee relations and chair of the 1999 drive. The amount is the most ever raised by the University, which has supported the United Way of Greater St. Louis since its inception in 1975 and prior to that the former United Fund of Greater St. Louis.

In recognition of the drive's success, the United Way has bestowed its Standard of Excellence Award on the University.

We have made this the best United Way drive ever at Wash-ington University, an exceptional accomplishment," said Chancellor Mark S. Wrighton. "I am thankful to all of the generous members of the University faculty and staff who contributed to the cam-paign's success."

Pressett said United Way volunteers did a great job of encouraging their colleagues to pledge with imaginative events. Some of the creative approaches on campus:

- The library held raffles and Monday Morning Munch.
- Hilltop facilities had a flea market, a barbecue and a dunking tank.
- West Campus held raffles and gave away prizes to encourage early pledge donations.
- Medical school facilities got vendors to donate items, such as movie passes and smoke detectors, for a raffle.
- The Orthopaedics and Physical Therapy Department held a "Day of the Drive" where employees brought in a favorite food.
- The Cell Biology and Physiology Department raffled University items from Bear Necessities with a Halloween theme.
- I want to thank the dedicated volunteers for their efforts and all of those who supported the drive.

See Campaign, page 2

Washington University in St. Louis

Milestone measurement made of nanotube strength

By Susan Kellenberg McGinn

Carbon nanotubes are smaller than the eye can see, yet stronger than steel. But just how strong are these nanoscale materials — the foundations of what some are calling a new technological order? In a milestone measurement, Rodney S. Ruoff, Ph.D., associate professor of physics in Arts & Sciences, and his nanotechnology research group have determined how much force a carbon nanotube can withstand before breaking.

In the experiment performed by Ruoff and his research group, individual multiwalled carbon nanotubes (MWCNTs) — rolled sheets of graphite — were picked up, positioned on a nanometer-length scale, family attached by a novel method, and tensile loaded (stretched by applying a force) until broken. A readout showed the applied force.

In some cases, micro-Newtones of force were needed to break individual nanotubes — many times higher than the force that would be needed to break a similar sized nanotube made of high-grade steel, if such a thing existed.

Ruoff, graduate student MinFeng Yu and postdoctoral fellow Oleg Lourie, Ph.D. (left), Rodney S. Ruoff, Ph.D., associate professor of physics in Arts & Sciences, and his nanotechnology research group have determined how much force a carbon nanotube can withstand before breaking.

See Nanotube, page 6

Washington University in St. Louis

Physics postdoctoral fellow Oleg Lourie, Ph.D. (left), Rodney S. Ruoff, Ph.D., associate professor of physics in Arts & Sciences, and his nanotechnology research group have determined how much force a carbon nanotube can withstand before breaking.
University employees supporting the United Way send rays of hope to people in need throughout the St. Louis area. Ann S. Prenatt, director of employee relations and chair of the 1999 drive, displays a token of the University's efforts—a Standard of Excellence Award from the United Way.

**Campaign**

University receives United Way award— from page 1

United Way's Prenatt said, "One of the things we're trying to do is something to be proud of and is another great example of how the University supports the St. Louis area."

Prenatt's co-chairs were Blanche Johnson, employee relations coordinator on the Hilltop Campus; Karen Seiffert, director of business operations, at the Medical Campus; and on West Campus, Marci Lowery, manager, endowment/ gift and investment accounting, and Kathy Richay, supervisor, cash and credit operations. Providing overall leadership were Shirley E. Baker, vice chancellor for information technology, and John N. Drebik, dean of law and economics.

The United Way of Greater St. Louis campaign also exceeded this year's total goal of $460 million, which will benefit more than 160 local health and human service organizations in greater St. Louis, and 92 cents of every dollar donated goes directly to support programs and services.

**Forum**

Alumni journalists discuss First Amendment — from page 1

PBS, and "Monument to a Dream" — familiar to St. Louisans — chronicles the making of the Gateway Arch. The first of two keynote speakers, John C. Antaramian (AP), will give a talk about following films the following.

Four Washington University alumni currently working in the media will take part in a panel discussion about front-line first amendment issues at 10:30 a.m. Thursday, Feb. 10, Room 110 January Hall. The panelists are:

- "Rhoda Baxter (AES '71), chief political correspondent for the Atlanta Journal-Constitution. Baxter began reporting for the Atlanta Journal in 1974 and eight years later became national editor for both newspapers. He has served in his present post since 1987, reporting on national and education reporter for the Atlanta Post. Baxter joined the Post in 1989 as a reporter covering education. Before that, he reported for the St. Louis American, St. Louis Post-Dispatch and the Boston Globe, where he shared a Pulitzer Prize for special local reporting on a series about race and inequity.

- "Michael Isikoff (AJS '74), investigative reporter for Newsweek. Isikoff joined Newsweek in 1994, after more than a decade with the Washington Post. In 1991, he received the 1991 National Headliner Award for his story on gun trafficking and violence."

- "Marcia Schwartz (AJS '74), deputy national editor for the Washington Post. In 2009, she joined the paper as a researcher for national news, and in 1992, she became congressional editor on the national desk. Guggenheim and moderator Sandra Davidson, associate professor at the University of Maryland School of Journalism, will round out the panel.

At 4 p.m. Thursday, Isikoff will give the keynote address in Holmes Lounge. For more information, call 935-5285.

**First Amendment Forum**

Who Tom Brokaw, Ken Cooper, Sandra Davidson, Charles Guggenheim, Michael Isikoff, Maralee Schwartz

Where Hilltop Campus

When Feb. 9 and 10

Admission Free

**For a good cause**

For a good cause: Looking for help in keeping that New Year’s resolution to get in better shape? The Campus Y could be your answer. The Y is sponsoring four fitness and relaxation classes this winter, along with three career offers in arts and self-defense. Instructed classes and personal sessions include:

- "Y Aerobics" — Jan. 31 to April 12, 6 p.m. Mondays and Wednesdays;

- "Y Exercise Boot Camp" — Feb. 16 to April 26, 6:30 p.m. Wednesdays;

- "Tai Chi Chu’uan" — Feb. 2 to March 2, 15 noon Wednesdays;

- "Hatha Yoga" — Jan. 25 to Feb. 29, 7 p.m. Tuesdays; or Jan. 27 to March 2, 6 p.m. Thursdays.

Marital arts and self-defense classes include:

- Cardio Kickboxing — Feb. 7 to April 22, 6, p.m. Mondays and Wednesdays;

- Ki and Aikido — Feb. 1 to April 30, several days and times available;

- Ki Development — Feb. 1 to April 30, 7-45 p.m. Thursdays.

Costs range from $30 to $80, depending on the class and the registration fee. For more information, call the Campus Y at 935-5010.

**Global vision**

The International Office is seeking volunteers to participate in a pair of community-connection programs that promote international friendships and further cross-cultural awareness.

The Host Family Program is designed to advance cultural exchange between international students and local volunteers. As part of the program, volunteers invite students to share in family celebrations, sports or cultural events at least once a month. The Speak English With Us Program matches community volunteers with international students, faculty and researchers who want to improve their understanding of English language and American culture.

Volunteers are not required to be trained teachers or have any special language skills. For more information, call 935-5455.

**Snowbound?**

If severe weather conditions cause the University to alter the normal schedule, a series of media outlets will air the announcement. This announcement will provide information separate and specific to the School of Medicine and the balance of the University and will apply only to Washington University students, faculty and staff.

- KDON-TV Channel 4, KTVI-TV Channel 2, KSDK-TV Channel 5, KMOV-AM (94.5) or KSDU-FM (93.7) will all broadcast the announcement.

Radio station 590 KTRS-AM has an off-air telephone snow closing system. To access it, dial 590-5910 or 590-5777 or 455-5555. You will be prompted with an identification number — 1278 — for the Hilltop Campus, 1440 Euclid; 449 for the medical campus. If there is a closing or cancellation, it will be announced in a few seconds. All KTRS AM closing announcements will be erased from the system between 2 a.m. and 7 a.m. To check for the following day, you will need to dial 590-5910.

**For an accurate**

A recent change in University policy (WLC) is a student organization at the School of Law, is gearing up for its annual auction, set for Feb. 25 at the law school.

Proceeds from the auction will help provide summer grants to law students who do legal work, benefiting low-income women.

**Record**

Washington University in St. Louis

President’s Office

10th and Euclid Ave.

St. Louis, Mo. 63130

935-5285

Washington University in St. Louis

Office of Human Resources

100 Morrison Place

St. Louis, Mo. 63130

935-5449

Washington University in St. Louis

Office of Public Affairs

660 S. Euclid Ave.

St. Louis, Mo. 63110

935-5285

http://www.wustl.edu

Contact us at: record@wustl.edu
**Medical School Update**

**Schlesinger and Ternberg become AAAS fellows**

M orton J. Schlesinger, Ph.D., professor emeritus of microbiology and immunology, and Leslie J. Ternberg, M.D., Ph.D., professor emeritus of pediatrics and surgery, have become fellows of the American Association for the Advancement of Science (AAAS). The rank of fellow is the highest awarded by the AAAS, the world’s largest federation of scientists.

Each year, the AAAS Council elects members "whose efforts on behalf of science or on behalf of the advancement of science or its applications are scientifically or socially distinguished." Schlesinger and Ternberg are among 285 new fellows who will be honored Feb. 19 during the AAAS annual meeting in Washington, D.C.

Schlesinger is being recognized for his work on heat-shock proteins and protein modification. In 1978, he discovered the first example to a bacterium of heat-shock proteins, which cells use to maintain normal proteins unfolded as a result of high temperature or other stressful conditions. Heat-shock proteins

refold the damaged proteins, helping the cell survive. Schlesinger also uncovered the first example in nonbacterial cells of a glycoinositol that can be modified by the addition of a fatty acid group. He found that Sendai virus utilizes a glycosphingoli - a protein with sugar groups attached — in the outer membrane of the host cells it infects. This modification allows the virus to wrap copies of its DNA into the cell membrane and bud the resulting new virus particles out of the cell. Schlesinger's current research involves the assembly of encased animal viruses such as Sendai, which he uses as a model. Using molecular genetics, he is studying the events that enable new virus particles to be associated with cells from humans. Schlesinger came to Washington University in 1964 as an assistant professor of microbiology and became a full professor in 1972. He served as acting chair of the Department of Microbiology from 1973 to 1975 and again from 1987 to 1989. From 1992 to 1994, he chaired the executive council of the Division of Biology and Biological Sciences. He chaired the microbiology chair's department in physiology from Yale University in 1951, a major degree in biochemistry from the University of Rochester in 1953 and a doctorate in biochemistry from the University of Michigan, Ann Arbor, in 1959. He carried out postdoctoral work at the University of Michigan, the University of Illinois at Urbana-Champaign, in Rome and the Massachusetts Institute of Technology.

Ternberg is being honored for his contributions to the practice and teaching of pediatric surgery and for his role in mentoring students.

After earning a bachelor's degree from Grinnell College in 1946, she received a doctorate in biochemistry from the University of Texas in 1950. In 1949, Ternberg and Robert Eakin, Ph.D., reported their discovery that intrinsic factor binds vitamin B12 — facilitating its assimilation instead of altering it to produce a more potent factor in the treatment of pernicious anemia.

After receiving a medical degree from medical school in 1953, she completed an internship at the University of Michigan, the University of Colorado, and the University of California in 1959 as an instructor of surgery and was promoted to assistant professor in 1962 and associate professor in 1965. In 1971, she was appointed professor of surgery and associate professor of surgery in pediatrics. She became chief of pediatric surgery in 1972, and in 1975 she was named professor of surgery in pediatrics.

**Berg awarded $2.9 million to study bacterium that causes peptic ulcers**

D ragus E. Berg, Ph.D., the James Professor of Molecular Biology and professor of genetics, has received a five-year, $5.5 million grant from the National Institute of Allergy and Infectious Diseases to study drug-resistant strains of *Helicobacter pylori,* the bacterium that causes peptic ulcer disease among many other microbial pathogens. In developing countries, these antibiotics are used widely to treat parasitic or eukaryotic infections, a practice that favors the emergence of drug-resistant parasites. In the laboratory, the researchers have shown that increasing the gene for a nitroreductase so that it produces enzymes that are partially resistant to metronidazole. This enzyme normally converts metronidazole to a bactericidal compound. Berg's group has found that these resistant strains in patients as well as in rats. The researchers have detected both laboratory and clinical strains of *H. pylori* that grow in the presence of even higher levels of metronidazole than the lowest *H. pylori*-deficient strains. "We suspect that these strains have muta
tions in genes that encode enzymes that contribute to metronidazole resistance," Berg said. The researchers now are looking for these genes. They also are studying unusual mutations, including mutation or exchange of specific genes between strains, that contribute to the antibiotic resistance to *H. pylori* or the ability to adapt to different human hosts.

The grant from the National Institute of Diabetes and Digestive and Kidney Diseases will support a study of *H. pylori* and gastrointestinal disease in Alaskan natives. This collaborative project will involve Alan Parkinson, Ph.D., and staff at the Arctic Investigations Unit in Anchorage, which is operated by the Centers for Disease Control and Prevention. To look at *H. pylori* transmission patterns, the researchers will monitor the genetic fingerprints of *H. pylori* isolated from occupants of different native villages. Because of geographic isolation, the strains within a particular village might be closely related. And any differences might point to genetic factors that allow the bacterium to thrive in a particular individual.

The researchers also will compare Alaskan strains of *H. pylori* with those isolated in other parts of the world. Genetic differences might explain the uniqueness of *H. pylori* strains, such as anemia, of peptic ulcer disease among Alaskan natives. This portion also might help determine whether *H. pylori* arrived in Alaska from Asia many thousands of years ago with ancient ancestors of native peoples or whether, like many other microbial pathogens, it arrived in the New World with European explorers and colonists during the past few hundred years.

**Slatopolsky receives kidney research award**

E duardo Slatopolsky, M.D., the Joseph Friedman Professor of Renal Diseases in Medicine, recently received the Belding H. Scribner Award from the American Society of Nephrology. The award and a medal are given annually to researchers who have made outstanding contributions in basic science that have a significant impact on the care of people with kidney disease.

Slatopolsky, a staff physician at Barnes-Jewish Hospital, is a world leader in the study of mineral and bone metabolism in patients with chronic kidney failure. He helped elucidate how these patients develop secondary hyperparathyroidism, which can produce bone disease. The end results from irregularities in the metabolism of calcium, phosphorus and vitamin D and elevated levels of parathyroid hormone in the blood.

Slatopolsky helped discover this that secondary hyperparathyroidism can be controlled — and even cured in some patients — through tight regulation of levels of phosphorus in the blood. He now is determining how this regulation occurs at the molecular level. In addition, he is studying how analogs of vitamin D influence secondary hyperparathyroidism. Slatopolsky received the 1991 Frederic C. Bartter Award from the American Society for Bone and Mineral Research and the first Award of Excellence from the National Kidney Foundation of Eastern Missouri and Metro East in 1997. He serves on the editorial board of the Journal of Bone and Mineral Research and is a member of numerous societies.

He obtained a medical degree from the University of Buenos Aires in 1959 and joined Washington University as a postdoctoral fellow in 1965. He became an instructor in medicine at Barnes Hospital in 1970 and a full professor in 1973. Slatopolsky directs the medical school's Chronology American kidney Center from 1967 to 1997.

**Safe training sessions scheduled for the School of Medicine**

F or clinical personnel:

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**Safe training sessions scheduled for the School of Medicine**

Okay, staff and students, we want to remind you that laboratory sessions at the School of Medicine need to attend a session on safety training every year. Alternatively, a designated safety coordinator from a laboratory, division or department can be certified to lead a session for an area. The safety sessions
cover topics ranging from proper use of lab equipment to the appropriate disposal of chemicals. Clerical staff also are encouraged to attend a session about safety issues and emergency procedures every three years.

Pregnant women are required. It can be done by sending an email to: \[email\] or by calling the Office of Environment, Health and Safety: 362-6816. The sessions will take place in the auditorium in the McDonnell Center or in the Science Building on the 15th floor.

**Super Bowl cliffhanger** At a Jan. 30 party on the top floor of Olin Residence Hall, first-year medical students Tomasz Grozekowski (second from left), Chris Arnett (middle) and Amy Alzami-Mamdani (second from right) watch the Super Bowl in nail-biting suspense with prospective students Jacob Schutz (far left) and Wes Diddle (far right). The St. Louis Rams beat the Tennessee Titans 23-16.
**University Events**

**Rickshaw** • The Shoah • Cochlear Implants • Liberty • Cabaret • Hoops

**'Hannah's Shawl' unwarns Holocaust**

**Lectures**

**Wednesday, Feb. 9**

6 p.m. Chinese Film Series: "The General" directed by Wei Te, Dept. of Asian and Near Eastern Languages and Literatures. Room 218 Friday Hall. 935-9155.

**Exhibitions**


**4 p.m. Biochemistry and molecular biology seminar.** "Order and disorder in translation initiation in ribosomal protein L10 mutants." Linda Ofner, prof. of biochemistry and molecular biology. Biological Sciences Building. 935-7072.

**4 p.m. Biology Seminar Series.** "Cardiovascular research: From the heart to the vessel wall." John D. Johnson, prof. and chair, div. of microbiology, Harvard Medical School. 4565 McKinley Ave. 362-7043.

**5 p.m. Dante Lecture Series.** "Dante's religious and political views: Different from our own?" Robert S. Bridges, prof. of classics, and John Sholto-Douglas, prof. of religious studies. USA. 935-7072.

**5 p.m. Ethics and the Law Series.** "Health care in the 21st century: Law meets medicine." Margaret K. Bruce, prof. of law and prof. of health management. Scuola di MANAGEMENT, University of Pennsylvania. 935-7072.


**5 p.m. Microbial Pathogenesis Seminar Series.** "Back Pain." Donna Kalauokalani, asst. prof., div. of pain management, Washington University School of Medicine. 935-7072.


**5 p.m. Theology Colloquium Series.** "The Shoah: a lesson for the future." Montreal Holocaust Survivors. 362-3400.


**Film**

**Wednesday, Feb. 9**

8 a.m. to 9 a.m. "The Shoah: a lesson for the future." Montreal Holocaust Survivors. 362-3400.

**Saturday, Feb. 5**


**University Events**

**Saul Friedlander speaking on Holocaust**

H istorian Saul Friedlander will deliver the Holocaust Memorial Lecture on Tuesday, Feb. 23, in Graham Chapel. The lecture, part of the Assembly Series, is open to the public.

Friedlander has held the Maxwell Cummings Chair of History of Memory, History and the Historian at Washington University since 1975. He also is president of the history of the Holocaust and Washington University in St. Louis. He taught at the University of Tel Aviv and the Hebrew University of Jerusalem from 1969 to 1975. He has published 12 volumes of Holocaust studies, most notably "The Holocaust in History and Memory." His most recent book, "The Origins of Totalitarianism," was published in 1996. Friedlander has been honored with many awards, including the Israel Prize in history in 1988 and the MacArthur Foundation "Genius Grant" in 1998. Friedlander is an editor-in-chief of "History & Memory," a journal that focuses on questions relating to the formation of historical consciousness.

He serves on the Independent Experts Commission investigating human rights policies during World War II and is a member of the Scientific Advisory Board to academic institutions in Israel and in America. His most recent book is the first volume of a two-volume series, "The Shoah and the Jews." His "The Tears of the Living" was included in Best American Essays 1999.

**Assembly Series**

**Who is the Holocaust Saul Friedlander?**

**Where Graham Chapel**

**When Tuesday, Feb. 23**

**Admission Free and open to the public**

**Exhibitions**


**4 p.m. Biochemistry and molecular biology seminar.** "Order and disorder in translation initiation in ribosomal protein L10 mutants." Linda Ofner, prof. of biochemistry and molecular biology. Biological Sciences Building. 935-7072.

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Lecture series spans globe, provides array of architects

A n international array of renowned architects, designers and artists is coming to campus as part of the School of Architecture’s annual Monday Night Lecture Series. The lectures, held at 7 p.m. in Reynolds Alumni Center, are:

• Monday, Feb. 7 — Barcelona architect Rafael Moneo talks about his “Philomenium” project at the University, now on view at the Gallery of Art.

A Feb. 11 — Architect Glenn Murcutt, on “Place, Culture, Technology,” speaking in collaboration with Steve Van Allen, will deliver the 2000 Humphil Midlo Endowed Lecture. It is best known for architecture that defines Australian cultural and landscape tradition.

• March 20 — Peter Zumthor, professor of architecture and director of the graduate program at the New York University Institute on “Eero Saarinen and the Search for an American Modern Architecture.”

The Design and Construction of the School of Architecture’s Steedman Innovation at Washington University, 97-5364, and the Student Union sponsor the lecture committee are Bradley Greene, John Rose and Henry Palkes. (Also Feb. 12, same time, same place.)

Workshops and performances

• Thursday, Feb. 3 — Toronto artist L. W. Gwendolyn Weil, Ph.D., the E. Desmond Lee Professor for Collaboration in the Master of Liberal Arts Program, will lead a workshop on “Collaborative Printmaking and Drawing.”

Workshops can also be attended free of charge by students and faculty from the printmaking department, and are able to incorporate a complex array of paper and printmaking techniques.


Performances

Music

February 3, 8:30 p.m. at Hurst Lounge. Hurst Residence Halls, Ridgley Hall. 935-3491.

Friday, Feb. 11 — 8 p.m. At Hurst Lounge. Hurst Residence Halls, Ridgely Hall. 935-3491.

Friday, Feb. 12 — 7:30 p.m. in the Student Union. "Soul Deep." Urban Performances and staff. Edison Theatre. For tickets, call 935-6026.

Friday, Feb. 19 — 7:30 p.m. Southeast Missouri State University, Carbondale, in the Student Union. "Vision Quest: A Meditation on the Divine Feminine." Sponsored by the Office of the Dean of Women and the Cultural Arts Program. Call 935-2706 for reservations.

Friday, Feb. 26 — 7:30 p.m. at East Pavilion. "The Design and Construction of the School of Architecture’s Steedman Innovation at Washington University." For tickets, call 935-6026.

MUSIC

Friday, Feb. 10 — 8:30 p.m. at Hurst Lounge. Hurst Residence Halls, Ridgley Hall. 935-3491.

Friday, Feb. 12 — 8 p.m. at Edison Theatre. "Revolutions." Sponsored by Black History Month and the Office of the Dean of Women. Call 935-6026 for reservations.

Friday, Feb. 19 — 8 p.m. at the Student Union. "Spiritual Freedom as the Birthright of Every Person: The Work of John Meade and What It Means for Us Today." Sponsored by the Student Union. Call 935-6026 for reservations.

Friday, Feb. 26 — 7:30 p.m. at East Pavilion. "The Design and Construction of the School of Architecture’s Steedman Innovation at Washington University." For tickets, call 935-6026.

Women win 55th

The women’s basketball team’s fifth consecutive win in its final five games leads the NCAA Division III record for consecutive wins as the Bears tallied 135 points to Augustana’s 150. The win was also their second in a row to 55 games with road victories over the University of Rochester, 103-55, and Case Western Reserve University, 97-53, last weekend.

The Bears led 35-25 at halftime after winning five of seven since New Years Day. The Bears are 17-3 overall and 10-2 in the American Football Conference.

Women’s basketball coach Kit Kowalksi was joined by Angie Pape, professor of classics, department head, and Master of Liberal Arts Program Co-Director. The University of Missouri-Rolla 167 McDowell Hall. 935-0776.

Students co-curated the exhibition as part of the class of the art department.

Drama, comedy, talks probe black history

Partnership yields Lofts

The St. Louis County Council

University students or recent graduates, including those by poets

Drama, comedy, talks probe black history

RECORD

feature adult language and

Lofts is a concrete illustration of our communities and the future of our campuses. University Lofts will help make St. Louis a more successful arts district

Steve Manheim/Staff

The St. Louis County Council unanimously approved legislation Thursday, Jan. 27, that sets the requirements for Hilltop Campus parking on the number of people rather than the number and size of buildings. The University is working to keep a minimum of 5,144 parking spaces for Hilltop Campus under the new law.

"This is a very significant change for the University, resulting from more than two years of work with the county," said Steven P. Hoffman, assistant vice chancellor for students and director of operations. "If the change had not been approved, the county would have not been able to provide over 1,000 additional parking spaces for the campus."

The University is currently studying parking options in order to replace parking spaces removed to make way for new buildings. The University will have an independent review of parking in 2003 and again sometime before 2006. Numbers will be reported to the County Planning Commission.

The majority of the Hilltop Campus, located in unincorporated St. Louis County, a small part is in the city of St. Louis.

John Dubinsky, chairman of the RHCDA Board of Directors, expressed enthusiasm for the project. "RHCDA is proud to have had the opportunity to work with Washington University and its School of Art to make Pat Schuchard's dream a reality,"

America provided all the financing for the renovation. The building and a nearby parking lot were donated by the University.

"This is a really unique initiative for an art school," Schuchard said. "I think it will help make St. Louis a more desirable place for young artists to live and start their careers. It will also give the school a real presence in a thriving arts district and should become a focus for artistic activity in St. Louis."

Davey Mendenhall, president of Bank of America Midwest: "Our equity investment in University Lofts is part of our continuing commitment to downtown. With its rich mix of residential and cultural life, University Lofts will help create a 24-hour downtown, which is essential to building a strong center city."
Ensminger's new Tilton chair

Jean Ensminger has been appointed the Tileston Chair in the Arts & Sciences, with funding provided by the Tileston Endowment. Ensminger was appointed the Tileston Chair in 1989, in recognition of her work from her. "We are excited to have someone of her stature and expertise in our field," said Edward S. McManus. Ensminger is a professor of anthropology at the University of Arizona and a fellow of the National Academy of Sciences. She received a PhD from Harvard University in 1980 and has been a faculty member at the University of Arizona since 1982. Ensminger's research focuses on the processes by which societies are transformed by increasing inequality and poverty. She has studied the impact of inequality on health outcomes, and her work has been published in leading journals in the fields of economics and sociology.

Ensminger's research examines the processes by which societies change, particularly the interactions between political, economic, and social factors. She has studied the impact of inequality on health outcomes, and her work has been published in leading journals in the fields of economics and sociology. Ensminger is a member of the American Academy of Arts and Sciences, and she has received numerous awards for her work, including a Guggenheim Fellowship and a MacArthur Fellowship.

Ensminger is a native of Kansas and attended the University of Kansas, where she received her BA in anthropology. She later received her PhD from the University of California, Berkeley. She has held positions at several universities, including the University of Arizona, the University of California, and the University of Chicago.

Ensminger's research has been funded by a number of organizations, including the National Science Foundation and the National Institute of Child Health and Human Development. Her work has been widely cited in the literature, and she has given numerous talks and presentations on her research.

Ensminger is a member of the American Academy of Arts and Sciences, and she has received numerous awards for her work, including a Guggenheim Fellowship and a MacArthur Fellowship.
Marybeth Brown, Ph.D. (left), associate professor of medicine, and research technician Cheryl Hoff examine the axis rotation of the ankle.

MARYBETH BROWN

For Marybeth Brown, Ph.D., exercise is fundamental — and a key ingredient in healthy aging

BY NICOLE VINES

Pioneering proponent of exercise for elderly

At Columbia College with a physical therapy degree in 1967, Marybeth Brown left the East Coast for a cross-country road trip with her brother. Her intentions were to explore the West, occur a place to live and find a job as a physical therapist (PT). Instead, she ran out of money much earlier than anticipated and was forced to take the first job she could get — working as a staff physical therapist at Cedars of Lebanon Hospital in Los Angeles. Brown doesn’t have fond memories of her first PT experience. “It was a little overwhelming,” she said, “because I was treating everything that came along.”

However, the same job she detested helped her to discover her life’s passion. “I absolutely love working with adults,” she said. “I found I couldn’t leave their troubles behind, and it was that job that served as a springboard to my work with the elderly for the next 30 years.”

Leading the way

Marybeth Brown, Ph.D., associate professor of physical therapy, has devoted much of her clinical and research career to understanding what happens to muscle during aging and bed rest. David R. Sinacore, Ph.D., assistant professor of physical therapy, said Brown was one of the first to recognize the value of physical exercise as a paradigm for a person aging. “Marybeth led the way in demonstrating that you can be healthier if you exercise regularly,” he said. “Her work has changed the way P.T.s think about how older individuals age. Kicking off her new interest in the elderly, Brown landed another PT job at an older-adult rehabilitation center. Three years later, she decided to try older-adult care from a different angle — home care. She found it challenging and real. Essentially, you’re living with your patients and trying to promote independence and improvement in whatever conditions you find,” she said. “You quickly realize how absurd it is to try to enable somebody to grocery shop when they can’t even negotiate within their own homes.” Brown said she found herself wrestling with the problems of the elderly. She decided to go back to school to pursue these questions, and in 1974 she earned a master’s degree in physical therapy from the University of Southern California (USC) in Los Angeles.

Soon after, Brown received a call from a former teacher at USC who wanted her to help teach an anatomy course. She accepted and called it taking leadership of the class the following year.

In 1975, Brown was asked to join the USC, physical therapy faculty full-time to teach anatomy and therapeutic exercise. Brown, an experienced hiker, already was signed up for a three-month trek across the Himalayas, and she said, joking that accepting the position was a difficult decision. Her new post required that she assist students with research projects. “It was the blind leading the blind,” she said. “I know nothing about research, and it was the most infuriating and frustrating experience.” After a few years, Brown realized she needed research skills and left the faculty to pursue a doctorate at USC. Five years later she received a Ph.D. in physical therapy.

Shirley A. Sahrmann, Ph.D., professor of physical therapy and cell biology and physiology, said Brown brings a valuable perspective to the profession and her research because of her background. “Marybeth is the ideal model of a clinician who has become a scientist,” said Sahrmann, also an associate professor of neurology at the University of Washington. “She was driven to the career change by her interest in animal research. In 1984, she came to Washington University as an instructor in PT. It was a meant-to-be experience,” she said. She considers herself lucky to have joined a university that already had an older-adult research program led by John O. Hollinsley, M.D., professor of medicine. At the same time, she was able to put together a tissue lab to study aging animals.

Hollinsley values Brown’s blend of skills. “Dr. Brown combines a remarkable level of clinical skill and acumen with the ability to do cutting-edge basic research relevant to her clinical interests,” he said. The combination keeps Brown’s work interesting. “It’s a peculiar situation to sit on the fence with one foot in an animal lab and one foot in a human lab,” she said. “Even as a PT, I’m a bit of an anomaly.”

The University, though, has allowed her to pursue parallel questions. “The animal work drives many of the clinical questions that are appropriate for older adult populations,” she said. “And the older adult population, as big as it is, provides questions to address with the animal work. I feel like I have the best of both worlds.”

Sinacore said Brown’s work with both human and animal research is unusual because she often is able to bridge the two almost immediately. “Marybeth has great insights for working with elderly, elders who are...” he said. “Most of her insights come from her observations clinically as well as in the laboratory, working with older rats. She can often apply her animal findings almost immediately to the human population.”

Considered by many to be a pioneer, Brown was one of the first to study the long-term effects of exercise. “You can’t help but notice how many people want to be rehabilitated — those who have been disabled by back problems or who are much better than older, sedentary adults,” she said. “Obviously, exercise is part of aging, but it is an profound effect on the overall well-being of people.”

More recently, Brown has set her sights on a problem that the elderly population has distanced and intrigued for many years — why bed rest is so hard on older adults than younger adults. Because two-thirds of admissions of people older than 65 to Barnes-Jewish Hospital were for elective procedures, she realized there would be opportunity for a pre-habilitation program in advance of a procedure. Brown hypothesized that such a program would strengthen their muscles physically so that they have muscles to withstand a period of disuse.

Spurring future coverage

Using animal models, Brown is comparing an exercise program done in advance of disease to the traditional model of rehabilitation following disease. Although she admits that insurance companies now wouldn’t pay for this kind of rehabilitation approach, she hopes she can provide a foundation for translating her findings into human future coverage. “To make a policy change is going to take years, but you have to start somewhere,” she said. “A reasonable starting point for me is in the animal lab.”

For Brown, exercise is innate. “Exercise is part of my fundamental being, a genuine joy,” she said. Several times a year, she gets what she calls her “mountain fix.” She has traveled the world climbing some of its highest mountains, including Mount Rainier, Mount Blanc, Mount Kenya, Mount Kilimanjaro, Mount Whitney and several in the Rockies and the Sierra Nevadas. “I’m honestly not that good a climber, but I’m a sucker for a view,” she said. Brown also enjoys biking, golfing, scuba diving and gardening.

Although she keeps an apartment in St. Louis, Brown’s home is located in Millberry, about 80 miles west of St. Louis. She lives on 36 acres still accessed by a dirt road. “I can’t help but wonder if there isn’t some genetic predisposition for living out here because I only go from seven generations of farmers,” she said.

“Whether it be work or play, I love adventure,” she said. “Research provides a terrific avenue for adventure. Going to work is just plain fun, and the best part — I’m getting paid to have a good time.”

Marybeth Brown, Ph.D. (left, foreground), shown here atop Mount Mera in Nepal in 1990.

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