Inside: Ford Foundation pioneers community enrichment & asset building

Medical News: Brain images show language recovery after ischemic stroke

Washington People: Benjamin C.P. Lee develops magnetic resonance technology

**Renovations, repairs and replacements guide infrastructure**

The Third R’s: Renovations, Repairs and Replacements

This is the first of a three-part series on the University’s investments on campus and in the community.

This issue: Maintaining and upgrading the University’s buildings

Feb. 8: The University’s investments in surrounding neighborhoods

Feb. 16: New construction around campus

Vol. 25 No. 17

Feb. 2, 2001

Washington University in St. Louis

**Dancing dragon** Fancy dragon steps were part of the fun for the 320 people attending the Olin Chinese New Year Party presented Jan. 26 in Simon Hall by Chinese students at the Olin School of Business. The celebration of the Year of the Snake, also the Little Dragon, began with 15 women MBA students wearing Chinese national dress serving a traditional Chinese dinner in student lounges. Afterward, in May Auditorium, there was singing, a presentation on Chinese culture and economy, and a drama, a scene of Huang-he opera, a "Crouching Tiger, Hidden Dragon" segment, and Chinese dances. There are 40 MBA and several undergraduate students from the People’s Republic of China and from Hong Kong at the Olin School. Many of them helped stage the event, designed to show the richness of the 7,000-year-old Chinese culture.

Could Venus have once been a wet planet?

**By Donn Keiterbach**

While Washington University is paving the way for others with its innovative doctoral programs, says Robert E. Thach, dean of the Department Earth and Planetary Sciences, "Washington University in St. Louis is serving as a model for universities up to 10 or 12 - are said".

Fegley heated tremolite, a mineral that forms in the presence of water, to extreme temperatures typical of the planet Venus. "There is a national realization that Ph.D.s have such exceptional research skills that they can apply them basically anywhere," Thach said. "The proficiency a student gains pursuing a Ph.D. can be seen Ph.D. program, Page 5.

The Responsive Ph.D. grows in part out of the Woodrow Wilson Foundation's Humanities at Work program, which is expanding career opportunities for Ph.D.s from such fields as History and English inside and outside academia. "There is a national realization that Ph.D.s have such exceptional research skills that they can apply them basically anywhere," Thach said. "The proficiency a student gains pursuing a Ph.D. can be seen Ph.D. program, Page 5.

We are committed to preserving the architectural integrity of this campus."

Ralph H. Teisman Jr.

"The campus is our greatest revenue stream, and every time a new building goes up, it school develops a long-term maintenance plan, which an independent committee monitors," said Aimee Wittman, career development specialist at the Career Center. "The program will enable students to explore numerous careers and look at new job opportunities they may not have known existed."

The panelists will discuss what career development specialists see in the future for students.

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See Career, Page 5

6th annual Career Week opens Monday

**By Neil Schlesinger**

The prospect of looking for a job can be a daunting experience for many graduating students. However, the Career Center hopes to make the process easier with the help of its Sixth annual Career Week starting Monday. Career Week consists of a series of panels and programs aimed at helping students explore careers. This year's theme is "Exploring Options and Opportunities," and the primary focus will be on panels of professionals with a variety of backgrounds.

"We have a number of panelists coming from many different career fields," said Aimee Wittman, Career development specialist at the Career Center. "The program will enable students to explore numerous careers and look at new job opportunities they may not have known existed."

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Renowned journalists to address how the Internet is changing sports coverage

By Jessica N. Roberts

Over the past decade, the face of sports journalism has changed with the addition of the Internet. No longer do people exclusively print publications or television for sports scores, features or athlete information.

Sports Web sites now offer an alternative, providing up-to-the-minute coverage. Today, major sports magazines like Sports Illustrated and ESPN The Magazine have teamed with television networks to create high-profile Web sites. Other sports periodsicals have followed, creating elaborate Web sites to complement their publications.

As a magazine pioneer this new brand of time-sensitive sports journalism, what constitutes good reporting is being tested.

University College is hosting a panel discussion from 6:30-7:30 p.m. Monday in McDonnell Hall, Room 162, that will address these changes. Panelists will include Moderating Michael McCann, associate instructor at University College, professor of law at the Seton Hall University School of Law and contributing writer of "ESPN Sports Illustrated," and editor and founding executive editor of "ESPN The Magazine," will lead a panel of renowned sports journalists:

- John Walsh, executive editor, ESPN
- John Rawlings, editorial, The Sporting News
- Royce Webb, editor, sportsjones.com
- Alexander Wolff, senior writer, Sports Illustrated

Probable discussion topics include:

- What are the implications of the headlong rush for Internet advertising?
- How does the Internet affect traditional print media?
- Where will the spending on Internet sites stop?
- What might be the ultimate impact of this high-stakes gamble?

The panel discussion is sponsored by University College, The Career Center, the Washington University Department of Athletics, the Office of Student Activities, and Student Life.

Ford Foundation president discusses new directions in philanthropy

By Barbara Rea

Susan V. Berresford, president of the Ford Foundation, will deliver "Philanthropy in the 21st Century" at 4 p.m. Thursday in Brown Hall, Room 300. The talk, part of the George Warren Brown School of Social Work's 2001 Spring Lecture Series, is free and open to the public.

Berresford has been president of the Ford Foundation for more than 30 years, joining the staff in 1970 as a project assistant in the national affairs division.

Berresford has served the organization in a number of capacities. In 1980 she was named officer in charge of the foundation's women's program. A year later, Berresford became vice president for the foundation's U.S. and international affairs programs, and in 1989 she was named vice president for social research.

Social work school's spring lecture series

George Warren Brown School of Social Work's spring lecture series spans social issues from the plight of refugees to the role of philanthropy in the latest developments in gene therapy.

The series kicked off Jan. 10 with a lecture by St. Louis Public Schools Superintendent Cleveland Hambrook on the history and future of the city school system. It will continue Thursday with a lecture by Susan V. Berresford, president of the Ford Foundation, on "Philanthropy in the 21st Century." The lecture runs 4 p.m. in Brown Hall Room 160.

Other lectures in the series, which is free and open to the public, are:

- 11:10 a.m. Thursday — Beverly Bruce, program director for the Social Science Research Council in New York, on "Focused Migration and Human Rights: United Nations' Response to the Flight of Refugees and Children," Brown Lounge
- 1:10 p.m. April 19 — University alumna Michael E. Willis, Ph.D., of Michael Wills Architects, on "Architects and the Role in the Transformation of Social Institutions," Brown Lounge
- 11:10 a.m. April 26 — George B. Johnson, Ph.D., professor of the Brown School of Social Work, on "Genetics Therapy on Trial," Brown Lounge

For more information, call 935-4999.

Ford Foundation sparks progress in social work

By Ann Nicholson

Support for research at the Washington University School of Social Services is a prime example of the Ford Foundation's commitment to on-the-ground initiatives with long-term sustainability. The center is conducting groundbreaking work in asset building, helping the poor break the cycle of poverty by making personal savings possible.

Michael W. Sherraden, Ph.D., the Bernard E. Hermine and Robert Popper Professor of Social Services and director of the Center for Social Development at Fordham University, will deliver "The Ford Foundation is doing pioneering work in this area, as it identifies and tests out innovations in asset building that might have broader implications for state and federal policy."

The Ford Foundation is a leading among a broad coalition of major foundations supporting the American Dream effort to help low-income families use TDA accounts to save money for major expenditures — a home, college education for their children or a new business. Since 1996, a series of Ford grants totaling close to $5 million have supported key aspects of the foundation's focus.

"The Ford Foundation is doing pioneering work in this area, as it identifies and tests out innovations in asset building that might have broader implications for state and federal policy," Sherraden said. "The foundation's significant funding for the Downpayment on the American Dream Policy Demonstration is a prime example of such vitally needed support."

The ongoing American Dream project is a large-scale test of an idea originally conceived by Sherraden to create matched savings accounts, known as Individual Development Accounts (IDAs), for low-income Americans. The accounts provide a means and an incentive for the poor to save a portion of their earnings, which is then matched by financial institutions, foundations and state and local governments. An educational component also assists the poor with savings strategies.

Professor Michael Sherraden is an intuitively appealing idea, especially in an environment that discourages welfare dependency and emphasizes education and entrepreneurial activities," Berresford wrote in a recent Washington University News column. "It is not surprising that IDAs have taken off.

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"The Ford Foundation is doing pioneering work in this area, as it identifies and tests out innovations in asset building that might have broader implications for state and federal policy."

Michael W. Sherraden
Research fellowship program seeks applicants

The School of Medicine has received a new grant to support its brain imaging program, making a $5.4 million grant a reality. The grant will fund a new research fellowship program focused on understanding the brain's own rehabilitation processes. This is especially important in the field of stroke research, where scientists are looking for ways to improve outcomes for patients. The fellowship program is designed to encourage young investigators to pursue careers in scientific investigation and to support their research projects. The University is one of the lead institutions in this field, and the grant will help to expand the pool of researchers who are working on brain imaging and rehabilitation techniques. The fellowship program is open to individuals who are interested in pursuing a career in research and medicine, and it offers a competitive salary and benefits package. For more information, please visit the School of Medicine website or contact Dr. Corbetta at 747-4614.

Corbetta: Neurologist

Tina Oliver-Weiker, research scientist in pediatrics, shows Joachim Pickett how to use an inhaler. A new study called Prevention of Early Asthma in Kids will test the effectiveness of medication in preventing chronic asthma in children.

Asthma prevention study needs young children

The School of Medicine is participating in a national effort to determine if childhood asthma can be prevented. The study, called Prevention of Early Asthma in Kids (PEAK), will look at whether treating children with wheezing early in life can prevent the development of asthma. The $5.4 million grant will fund a study at the National Institutes of Health (NIH) to examine the long-term effects of early treatment. The study will recruit 56 children, ages 6-11, who have previously had wheezing in the past six months. Participants will be randomly assigned to receive either a placebo or a medication for two years. The study will also collect data on respiratory function and quality of life. For more information, please visit the School of Medicine website or contact Dr. Corbetta at 747-4614.

Corbetta: Neurologist

Researchers recommend the use of�

Asthma is a chronic disease caused by inflammation and swelling of the small airways in the lungs. When the airways become swollen and congested with mucus, the muscles around the airway block the normal flow of air, causing patients to cough and wheeze and have difficulty breathing. Asthma is the most common chronic childhood disease in the United States. According to the National Heart, Lung, and Blood Institute, 19.1 million children younger than 18 have asthma, which is 6.3 percent of the population. Of these, 5.1 million children have had an asthma attack in the past year. The Children's Hospital at St. Louis is participating in a study to examine the effectiveness of medication in preventing asthma.

Tina Oliver-Weiker, research scientist in pediatrics, shows Joachim Pickett how to use an inhaler. A new study called Prevention of Early Asthma in Kids will test the effectiveness of medication in preventing chronic asthma in children.

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Corbetta: Neurologist

Researchers recommend the use of�
Mostly Mozart Festival Orchestra
Pablo Casals, the Orpheus
Casals Festival Orchestra under
Saturday at Holmes Lounge in
only performance.

Exhibitions

"Caused by Politics" • Kip Thorne • Computer-generated Holograms • Sports Journalism

Film

Lectures

Friday, Feb. 2
"The Universality of the Written Word in the Modern Age," by Robert L. Gross, the Universitat de Barcelona, will be the next event in the "Golda Meir Lectures" series. 4 p.m. Tuttle-Moritz Auditorium, Washington University.

Monday, Feb. 5

Frightened Rabbit, "Surfacing: The Analysis of the Start Transcription Factor: Mapping the DNA Sequence Required for the Promoter Recognition by the "Frightened Rabbit" Promoter Recognition Factor.

Tuesday, Feb. 6

Neurobiology and Molecular Pathogenesis Seminar Series.

Wednesday, Feb. 7

Music of "Beethoven" presented by Haber and Carlin

On Stage

Worship

Friday, Feb. 2

Monday, Feb. 5

Lecture series continues with "The History of the Universe," by Richard Dawkins, professor of the history of ideas, University of Oxford. 4:30 p.m. Fordham University, Fordham University.

And more...

Friday, Feb. 2

Monday, Feb. 5

Monday, Feb. 5

Monday, Feb. 5

Monday, Feb. 5

Monday, Feb. 5

Monday, Feb. 5

Monday, Feb. 5
Men’s hoops splits pair
The men’s basketball team saw its seven-game winning streak come to an end with a 66-56 home loss to the University of Rochester on Jan. 26. The Bears led from start to finish as the Bears shot 37 percent from the field. WU got as close as 55- 59 in the second half, but then fell away. 

The Bears immediately started making winning streaks and improved to 16-2 Sunday by beating the Carleton College Women’s Basketball Team, 77-63. WU led from start to finish throughout the game.

The Bears cut the score to 52-46 early in the second half. But a 22-6 run then gave WU a 44-25 lead to the 30-22 halftime edge, and WU took the lead from the beginning.

The Bears scored 20 points in the first half and 32 points in the second half. WU scored 26 points in the first half and 33 points in the second half.

Women’s basketball wins two
The women’s basketball team began its season with a 77-71 victory over Rochester on Jan. 26. Kristi Eller scored 20 points and added a game-high five blocks. Alexander scored 14, Joel Parrott had 12, and John had 10, four assists and three steals. 

The Bears scored 25 points in the first half and 42 points in the second half. WU scored 35 points in the first half and 36 points in the second half.

The Bears are 8-0 in the Union Athletic Association and 17-1 overall. WU won five consecutive home games.

Swimming and diving come in second
The Bears are 1-0 in the swimming and diving teams captured identical finishes Jan. 26-27 at the WU Invitational. The men were second only in Division II Missouri-Kansas. And the women were third in Division I Nebraska-Omaha. 

The women’s side, diver Bryan Brush captured second-place finishes in the 1-meter (377.05) and 3-meter (394.65). 

The women’s side, diver Bryan Brush captured second-place finishes in the 1-meter (377.05) and 3-meter (394.65). Matt Johnson took second place in the 300-yard freestyle (1:46.29).

The Bears’ Ryan Patton makes a pass during a recent men’s basketball game.

Venus
Research indicates planet may have been wet
from Page 1


“Ours is the first study that investigates hydrous mineral decomposition with applica- tions to Venus,” Johnson said. “We have shown that tremolite can withstand extreme temperatures and maintain intact for billions of years. So we can find and track, or make, some sort of hydrous mineral, and it would have had water in its past.”

Indirect evidence found in its high deuterium/hydrogen (D/H) ratios. If the high D/H ratios are the result of lighter hydrogen (deut- erium) subliming from hydrous (vapor) escaping Venus' atmosphere to space, then it is possible that there was water in the past. But the D/H ratio of Venus varies randomly, so, like Earth, and comets and meteorites can also provide some data, but other evidence is needed.

Johnson and Fegley’s research on the D/H ratio of tremolite shows that the evidence indicates water.

“We want to know if it was once wet on Venus and look and find minerals that have water in them,” Johnson said. “When you are looking for water, you want to know where you are going and what you want to look for. This experiment is educating us about the laying foundation and saying, hey, we should, or we should not. Or even, we are looking for hydrous minerals on Venus or, is it a waste of time?”

Johnson and Fegley conducted over 200 experiments, testing samples of tremolite in laboratory conditions at temperatures of up to 1,240 degrees Kelvin (about 1,770 degrees Fahrenheit) for as long as 20 months, periodically weighing them to document the amount and rate of decomposition.

Tremolite, an amphibole, and carbonate minerals make up the OH (hydroxyl) groups as part of a lattice holding water molecules together. Amphiboles are formed when lava and magma interact water, and carbonate minerals, such as travertine, are a metamorphic mineral derived from calcium carbonate, according to theory, should decompose rather quickly at high temperatures.

But Johnson and Fegley believe data indicate that the mineral is much more resistant than previously thought, and it would likely take about 4 billion years to decompose to the same extent Venus’ atmosphere has. “Diamonds are a good analogy for what is happening with tremolite,” Johnson said. “Diamonds are unstable at the surface of any planet in the solar system. But you do not see diamonds in a lab setting. They are just a graphite on people’s fingers.”

If tremolite and other amphiboles form in the first place, they should be detectable using infrared spectroscopy and other methods.

The researchers are also measuring decomposition properties of other hydrous minerals. Surprisingly, little has been done about meteorites besides the exception of those with ammonia-like substances, adsorbed on minerals and other insulators.

“They could give us some clues about the evolution of our solar system, and has applications on Earth,” Johnson said. “It is worth investigating meteoritic regimes or subduction zones.”

Career
Chances for students to explore new fields
from Page 1

Wittman said, "They will offer advancements and advice in the job-search process.

Skill-building seminars will be offered on resume writing, networking, interviewing, understanding benefits packages and the proper way to evaluate and negotiate an offer. Experts will be on hand Monday afternoon to critique resumes.

The event’s capstone will be the

Financial planning workshops conducted by HR, TIAA-CREF

Faculty and staff are invited to attend one of four credit-hour financial planning workshops conducted by the Office of Human Resources.

The "Building Your Financial Future" workshops are designed to help employees who have worked for a number of years. The classes will culminate in a consumer seminar in which attendees learn to conduct a self-assessment of their current financial condition and are willing to devote some time to develop a plan for their financial future.

Topics will include a detailed examination of cash flow and net-worth statements, establishing goals, an overview of the most appropriate financial products to meet those goals, investment strategies, and protection of investments.

The workshops are:

• Medical Campus: Feb. 13: 3-4:30 p.m., Cori Auditorium; Feb. 14: 9:30-11 a.m., Cori Auditorium.

• Medical Campus: Feb. 17: 3-4:30 p.m., Simon Hall Room 106.

• Medical Campus: Feb. 18: 9-11 a.m., Library Conference Room

Space will be limited to keep the workshop as personalized as possible. To sign up, go to TIAA-CREF’s website at www.tiaa.org or call (800) 482-2005. Please remember to identify which session you wish to attend.

Wittenberg said, "The workshops and the networking reception are always very well-attended, and this year we have an excellent line-up of speakers.

All events are free and open to all University of St. Louis students. For more information, call 935-5930.
Use the World Wide Web to obtain complete job descriptions. Go to http://medicine.wustl.edu/wumshr (Medical).

- Research Assistant
- Department Secretary
- Room 130, West Hilltop

To obtain information in the Office of Admissions and Gift Services, call 935-5906.

- Broderick and Brookings halls.
- state-of-the-art technology
- computer systems.
- The project covers Kingshighway from Highway 40 to Forest Park Parkway and is expanding along Euclid Avenue and connecting streets.

- The University has invested $3.4 million just in the first phase, converting the "campus" Tier I between Kingshighway and South 40.
- another $1 million in WUMC spending.

- its share of historic buildings and the University has invested substantially in improving them.

- Because the Hilltop campus is the historic heart of the University, the Hilltop has always been keenly aware of major construction
- under renovation. The Hilltop, where the University
- The Hilltop is the historic heart of the University.

- the University spent $2.4 million in the first phase, converting the "campus" Tier I between Kingshighway and South 40.
- another $1 million in WUMC spending.

- campus in the "Tier I" section
- spending $1,700 in unauthorized use of a credit card between 1:50 p.m. Jan 25 while it was

- a student was at an automobile. A student was at
- 2:30 p.m. — A student
- 4:39 p.m. — University Police
- 5:43 p.m. — A student
- 6:10 p.m. — A student
- 7:30 p.m. — A student
- 8:10 p.m. — A student
- 9:10 p.m. — A student
- 10:07 p.m. — A student
- 11:30 p.m. — A student

- $1,500 in unauthorized use of a credit card between 1:50 p.m. Jan 25 while it was

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- 9:10 p.m. — A student
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- 11:30 p.m. — A student
Jennifer Prah Ruger, Ph.D., joins the Department of Biology in the University system. She earned a doctorate in applied linguistics. She graduated from Williams College in 1990 and a law degree from Harvard University Law School in 1995. Ruger clerked for Judge Michael Boudin of the U.S. Court of Appeals for the First Circuit and Justice Stephen Breyer of the U.S. Supreme Court. Recently, Ruger worked for litigation for Williams and Company in Washington, D.C. She specializes in constitutional law and health law and regulation, and will also teach in the law school’s U.S. Attorney and Civil Justice clinics.

Ted Rogers, J.D., joins the School of Law as an associate professor. He earned a bachelor’s degree from Williams College in 1990 and a law degree from Harvard University Law School in 1995. He clerked for Judge Michael Boudin of the U.S. Court of Appeals for the First Circuit and Justice Stephen Breyer of the U.S. Supreme Court. Most recently, Rogers worked for litigation for Williams and Company in Washington, D.C. He specializes in constitutional law and health law and regulation, and will also teach in the law school’s U.S. Attorney and Civil Justice clinics.

Nancy G. Staudt, J.D., joins the School of Law as a professor. She earned a bachelor’s degree in 1985 from Ohio State University and a law degree in 1989 from the University of Michigan. Staudt, who served as a visiting professor during the 1999-2000 academic year, specializes in federal income tax, corporate tax and tax policy. After clerking for Judge John T. Noonan on the Ninth Circuit Court of Appeals, she practiced as a tax attorney and was an associate professor at the University of New Mexico School of Law.

Cindy Brantmeier, Ph.D., joins the Department of Romance Languages and Literature in the University’s Arts & Sciences as assistant professor of Spanish, second-language acquisition and applied linguistics. She graduated with high honors from the University of Wisconsin, Stevens Point in 1990 with four majors: Spanish, English, history and secondary education. Brantmeier earned a doctorate in applied linguistics and Spanish from Indiana University at Bloomington in May 2000. She is a specialist in second-language acquisition, translation and strategy use, with a research emphasis upon gender variables. Brantmeier has published numerous articles and has presented papers at professional meetings in her field. In 1999, she was a recipient of the Lilly Foundation’s Outstanding Assistant Instructor award, given each year to only four instructors across all campuses and disciplines of the Indiana University system.
Dr. Lee has always been quick to introduce new imaging techniques at the hospital. We have all benefited from his consistent efforts in the last decade. He has laid a solid foundation for future growth of pediatric neuroradiology at the School of Medicine.

"As children, we had friends in common, but they neglected to introduce us," Lee said with a smile. The Lees live in the Central West End. They enjoy the city's cultural venues, particularly the symphony and Opera Theater of St. Louis.

What keeps him busiest — and what he calls the most enjoyable aspect of his job — is teaching research fellows. "Young people ask the difficult questions," Lee said. "It's always a challenge to stay one step ahead of them."

Benjamin C.P. Lee, M.B.B.S., associate professor of radiology and of pediatrics, views a brain specimen for congenital abnormalities with research coordinator Murcia Hendrix.

Benjamin C.P. Lee, M.B.B.S., is a leader in developing MRI and MRS, which allow noninvasive examination of the brain and other organs.

By DAVID LENZI

Getting inside people's heads

Benjamin C.P. Lee, M.B.B.S., University of Hong Kong, Bom:

"Dr. Lee has always been quick to introduce new imaging techniques at the hospital. We have all benefited from his consistent efforts in the last decade. He has laid a solid foundation for future growth of pediatric neuroradiology at the School of Medicine."

The work is part of a major National Institutes of Health grant to the medical school's Alzheimer's Disease Research Centre. "We're hoping to develop ways to detect the disease early," Lee said. "If it can be caught before symptoms appear, treatment may be much more effective."

Coming to America

After completing his training at the National Hospital for Nervous Diseases in London, Lee took a fellowship at Cornell University Medical College in New York City. He had never been to America before. New York struck him as a madhouse, but he came to enjoy Carnegie Hall and the Metropolitan Opera. He also adapted to the pace at which American researchers worked. "In England, becoming a tenured professor was a slow process," he joked. "In New York, we expect it in a year."

Lee also worked as a neuroradiologist at the National Institutes of Health and at the National Cancer Institute. His work there helped develop the field of magnetic resonance imaging (MRI), which allows noninvasive examination of the brain. "MRI is a gold standard for the training of residents and fellows," Lee said.

Now the department at St. Louis Children's Hospital sees so many patients, it is purchasing a second MR scanner. "One of our other children's hospitals in North America has two," Lee said. "I'd like to have one."