Milestone
WU geneticians attend celebration at White House

By DAVID LINTZ
School of Medicine researchers went to the White House June 26 to help announce the assembly of a working draft of the human genome — 3 billion DNA letters that make the blueprint for the human body. The Genome Sequencing Center at the medical school has contributed approximately one-fourth of the DNA sequences represented by the Human Genome Project, an international collaboration.

Of the working draft, Waterston said, "Very exciting stuff — as far as what it actually tells us as much as for the promise it holds. With the information at the front of it, we begin to see the path forward in a way that was hard to see without it." Waterston is the James S. McDonnell Professor of Genetics, head of the Department of Genetics and director of the Genome Sequencing Center. Wilson is associate professor of genetics and center co-director. Sekhon is a lab supervisor. Waterston is a lab supervisor.

The White House ceremony was attended by U.S. senators and ambassadors of five nations, as well as by Francis Collins, M.D., Ph.D., director of the National Human Genome Research Institute, and James Watson, M.D., Ph.D., who developed the first sequencing method to date a DNA structure in 1953. British Prime Minister Tony Blair also appeared on a satellite link.

Dating water New method will aid pollution studies

By TONY FITZPATRICK
Whether it's the birthday of a movie star or the "sell-by" date on a beer, American culture is obsessed with age. Yet few give a second thought to the age of water, the mainstay of life.

One of those few is Robert E. Criss, Ph.D., professor of earth and planetary sciences in Arts & Sciences, who has developed a new, nonradioactive method to date water. The method involves a sophisticated formula that relies heavily on the ratios between oxygen-16, which comprises 99.8 percent of all oxygen in water, and oxygen-18, a stable isotope of oxygen. This formula gives a distinctive "fingerprint" for the water. Using the formula, Criss is able to get an average age of water from any system he samples.

The method will be essential to future water quality and climate change studies, and eventually will serve as a way to track both the time and severity of pollutant emissions in streams. Criss is incorporating it into an ambitious study of water quality in the watersheds of the Mississippi and Missouri rivers, together the largest river system in North America. Isotopes are different varia-
tions of the same element. There are three oxygen isotopes, oxygen-16, -17 and -18. All three behave chemically as oxygen, differing only in their mass, or weight. About one oxygen atom in 500 is oxygen-18, and only one in about 2,500 is oxygen-17.

"Most methods that date water rely on radioactive isotopes, such as carbon-14, which are usually tied to some trace organic or inorganic dissolved in the water," Criss explained. "But with these methods, one has to ask: Are you really dating the water or looking at when that chemical got in?"

See Water, page 5

Risa Zwerling to bring rare gifts to role as WU's first lady

By BETTY ROGER
Risa Zwerling has a gift for connecting with people. She has spent her life shaping these fundamental links with others — with childhood friends in Queens, N.Y., with suffering patients in a New York City rehabilitation hospital, with disadvantaged toddlers at St. Louis' Our Little Haven, where she's a volunteer.

In her professional life, as managing director of account services at Citicorp Mortgage in Washington, D.C., she has spent her life shaping these connections of a different order. From CitiCorp to the University of Missouri, her employees connect with the University in their own ways, and Zwerling, in turn, connects with them.

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stand and know people, to really listen. She is absolutely genuine," says Mark S. Wrighton, Ph.D., chancellor of the University of Missouri.

In her professional life, she has spent her life shaping these fundamental links with others — with suffering patients in a New York City rehabilitation hospital, with disadvantaged toddlers at St. Louis' Our Little Haven, where she's a volunteer.

"She has a passion for life, to understand and know people, to really listen. She is absolutely genuine," says Mark S. Wrighton, Ph.D., chancellor of the University of Missouri.

As the University's new first lady, Zwerling hopes to continue her life's work and make a new one for herself, and she wants to do it on her own terms.

"I'm not going to be locked down, I'm not going to have a father figure and a long, long time friend and former co-worker. She has a passion for life, to understand and know people, to really listen. She is absolutely genuine," says Wrighton. "As the University's new first lady, Zwerling hopes to continue her life's work and make a new one for herself, and she wants to do it on her own terms."

Risa Zwerling and Chancellor Mark S. Wrighton will be married July 28.

Among her plans and hopes: running a "Hauswirck Restaurant" serving up occasional meals for students missing their families and providing members of the community another means of access to WU.

Born in Brooklyn in 1948 and raised in Queens, Zwerling received a bachelor's degree in psychology from Barnard College of Columbia University in 1970 and soon afterward took a job as a social worker at St. Joseph's Hospital, the East River's Welfare Island under the 59th Street Bridge. Citer was a rehabilitation hospital, treating patients with chronic, long-term conditions arising from drug or alcohol addiction, birth defects, spina bifida and other causes.

The patients were very much in charge of the place. Zwerling said, "They had established their own culture there, and to work with that was a real challenge. When the job had to adapt accordingly. "When you went to work and landed on that island, you became part of them," Zwerling reflected.

From Citer she went to the University of Maryland in Baltimore, earned a master of social work degree in 1975 and became a psychiatric social worker at Baltimore's Sinai Hospital. Then, newly married to men's clothing manufacturer Robert Schmidt and relocated to St. Louis, she went to work at Missouri Baptist Medical Hospital.

With the birth of their first daughter, Anna, in 1980, Zwerling became a stay-at-home mother. "I was very wrapped up in being a mother," she said. A second daughter, Leah, followed four and a half years later.

After Leah was born, Zwerling enrolled at Washington University's John M. Olin School of Business and earned an MBA in 1989. Zwerling, who had been in 1987, signed on after graduation with Citicorp Mortgage in St. Louis and soon became director of supplier diversity programs. "We planned on having 25 kids. We kept our recruiting effort going for five years, but the first year, the parents were very interested in having their children on the campus of Washington University. The boys and girls, sporting shirts emblazoned with MITC, don bad hair while touring construction sites. They are on campus every Monday through Friday through July 28. While learning about the various construction projects and the opportuni-
ties in construction, the teens also attend daily sessions in Fails Hall to build their math and computer skills. "The Metropolitan School is a recent graduate of the John M. Olin School of Business, teaches the teens reading.

"The math enrichment sessions are very important to a student's entry into high-skills level of the program."

See Youth, page 5

New skills Minority Youth in Construction Program is a hit

By CHRISTINE FARMER
One might think that finding 18 to 21-year-olds willing to give up six weeks of their summer vacation to learn about careers in construction would be fairly easy. But there were more than a few times when the University launched the new Minority Youth in Construction Program currently under way.

About 75 African-American teens, while being high school in the fall, applied to enroll in the six-week program in January. Yet 30 were accepted. They are not only committed to this summer's session, but will return to the University for the next three years to complete the program.

"We were surprised at the overwhelming reception," said Sandra Marks, director of supplier diversity programs. "We planned on having 25 kids. We kept our recruiting effort going for five years, but the first year, the parents were very interested in having their children on the campus of Washington University. The boys and girls, sporting shirts emblazoned with MITC, don bad hair while touring construction sites. They are on campus every Monday through Friday through July 28. While learning about the various construction projects and the opportunities in construction, the teens also attend daily sessions in Fails Hall to build their math and computer skills. "The Metropolitan School is a recent graduate of the John M. Olin School of Business, teaches the teens reading.

"The math enrichment sessions are very important to a student's entry into high-skills level of the program."
Taking root University horticulturist Paul Norman examines one of a grouping of three Scotch elms planted this spring on East of Brown Hall. Ten of the elms were planted around campus this spring and one remaining tree will be planted at the Charles F. Knight Executive Education Center. "It's a unique species of tree with a spread of 85 feet," Norman said. "We had to get them in Canada. It's hard to find them because no one wants them in their yard. They take up too much room."

Leading social work deans meet here

By Gerry Undergiving

The creation of a national center for social work research within the National Institutes of Health is one of several initiatives endorsed by a new coalition of social work deans who met here June 23-25 to discuss strategies for advancing social work education through research. "Our knowledge base is not keeping up with the research that has helped transform social work education and practice over the last two decades, but this trend must be broadened and intensified if the profession hopes to truly fulfill its mission," said Shanti Khinduka, Ph.D., host of the meeting and dean of the George Warren Brown (GWB) School of Social Work.

Deans from some of the nation's leading schools of social work have recognized the importance of establishing a new research agenda for some time, but this attitude is not as widespread as it should be in the profession," he added. "As a result, our knowledge base is not advancing as rapidly as it should. Social work is not getting the research dollars it needs, if getting the respect it deserves in widespread as it should be in the national's leading schools of social work, but less than a majority of those schools of social work that consider research an important part of their mission," Khinduka said.

The school's 15-member research panel will make a recommendation for research by social work faculty and schools: • support services and other needs to encourage excellence in research by social work faculty and schools:

"Many banks and development organizations have expressed an interest in learning how to move greater scale or productivity in community development lending programs," Ashley continued. "The Midwest has never been a great hotbed for community development lending, at least not at the level it's practiced on the coasts. In a big picture way, we hope the school will spur greater interest in community development here."

"Creating profitable long-term business ventures. Organizations have expressed an interest in learning how to move greater scale or productivity in community development lending programs in such as single- and multi-family housing, small business, commercial real estate and community-based facilities. Creating profitable long-term business relationships between banks and community development organizations is a primary goal of the community lending movement. Banks and other lending institutions have come under pressure to invest in and make loans to the communities they serve, an obligation generally outlined in their charters. The Community Reinvestment Act of 1977 defined this obligation by requiring banks to help meet the needs of all communities. But community lending is now being used nationwide to help residents of low- and moderate-income communities save for investments in education and small business ventures. Students at the lending school will have the opportunity to network with other bankers from across the country to share problems and solutions. Participation will vary in University residence halls.

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**Medical School Update**

**Scientists discover new way to distinguish self from other**

By Linda Sage

Challenging an important dogma, immunologists have discovered a new way the body distinguishes its own foreign cells so it can destroy microorganisms. The findings, reported in the June 15 issue of Science, suggest a new approach to autoimmune disease and ovarian cancer. Like some cancer cells, ill-harbing bacterial parasites and parasitic microorganisms don't destroy their comrades with friendly fire. Until now, scientists thought that only immune cells called natural killer cells were equipped for the job. Those cells scan other cells for a security badge called MHC class I. If the badge is missing or altered, the offending cell is destroyed.

But researchers at the School of Medicine have discovered that cells called macrophages, which eat microbes and damaged cells, also can distinguish self from other. Instead of relying on MHC class I, the immune system uses a surface protein called CD47.

“The beauty of the CD47 system is that a macrophage with a single receptor can discriminate between self and foreign. If it sees a particle with CD47, it knows all is well. If it sees a particle without CD47, it knows its particle is foreign and potentially dangerous,” said Per-Anders Oldenborg, Ph.D., lead author of the Science paper.

Oldenborg is a postdoctoral fellow in the laboratory of Jonathan Mueckler, M.D., a professor of medicine who focuses on inflammation and an assistant professor of molecular virology. “Until now, our understanding of how the immune system tells the difference between self and foreign has been based on the dogma that only the interaction between natural killer cells and MHC class I is important,” said Oldenborg. “Our finding challenges that dogma by showing that the body's own cells can be recognized by CD47 and that the macrophage, a much more basic component of the body’s defense system, can make the distinction.”

In 1998, Oldenborg's group injected white blood cells that lacked CD47 into normal mice and found that the cells quickly disappeared. After Oldenborg joined the group in 1999, he obtained the same result with red blood cells that lacked CD47. By injecting stained cells and examining slices of various organs under the microscope, he found the cells in the spleen. They were in a region called the “danger zone,” which constitutes a large number of damaged cells and foreign particles.

Because the injected red blood cells differed from normal red blood cells only in their lack of CD47, the researchers concluded that macrophages must recognize this cell-surface protein. “CD47 tells macrophages to leave them alone,” Oldenborg said. “Because bacteria and other foreign particles in the blood do not express CD47, they get eaten up.”

Macrophages roam the body, congregating in places such as the lungs, gut and spleen where infections occur. If the cells determine a particular organism to be harmful, they act to destroy it. However, there is a catch. The body has mechanisms that allow normal cells to escape destruction. One of these mechanisms is the CD47 protein, which helps normal cells avoid attack.

“The beauty of the CD47 system is that a macrophage with a single receptor can discriminate between self and foreign,” said Per-Anders Oldenborg.

**Medical school faculty receive grants totaling $14.6 million**

Numerous School of Medicine faculty recently have received grants totaling $14.6 million fund research on topics ranging from asthma to brain circuits.

Richard E. Besser, M.D., Ph.D., professor of medicine, has received a five-year, $1.6 million grant from the National Institute of Diabetes and Digestive and Kidney Diseases. Besser will oversee the development of a drug that could treat insulin-resistant diabetes.

Jonathan M. Green, M.D., Ph.D., professor of molecular and cellular biology and director of the Pediatric Neurol-ogy Cerebral Palsy Center at the School of Medicine, has received a five-year, $1.6 million grant from the National Heart, Lung, and Blood Institute. Green is studying a cell-surface protein linked to asthma and other inflammatory disorders.

Colin P. Derdeyn, M.D., professor of neurology and cell biology and director of the Pediatric Neurol-ogy Cerebral Palsy Center at the School of Medicine, has received a five-year, $1.5 million grant from the National Institute of Neurological Disorders and Stroke. Stroke. Craig is determining how proteins reach their correct sites in nerve cells.

Arthur D. Loewy, Ph.D., professor of neurobiology, has received a four-year, $1.5 million grant from the National Heart, Lung, and Blood Institute. His research focuses on circuits in the brain that control basic bodily functions.

Mike M. Mueckler, Ph.D., professor of cell biology and physiology, has received a five-year, $1.2 million grant from the National Institute of Diabetes and Digestive and Kidney Diseases. Mueckler will study the structure and function of a protein that permits cells to take up glucose.

Jonathan M. Green, M.D., assistant professor of medicine and pathology and immunology, has received a four-year, $1.2 million grant from the National Heart, Lung, and Blood Institute. Green is studying a cell-surface protein linked to asthma and other inflammatory disorders.

Colin P. Derdeyn, M.D., assistant professor of radiology, has received a four-year, $1.1 million grant from the National Institute of Neurological Disorders and Stroke. Derdeyn is investigating how drugs designed to lower cholesterol levels also reduce some individuals' risk of stroke.

Alex S. Evers, M.D., is named president of university anesthesiologists

Alex S. Evers, M.D., the hospital’s clinical coordinator of the Department of Anesthesiology at the School of Medicine, is the new president of the American Society of University Anesthesiologists, Inc.

He began a two-year term as AUA president in July during the organization's 47th Annual Meeting and Scientific Sessions in Salt Lake City, Utah. Evers also is a professor of internal medicine and of medical microbiology and pharmacology, and is known for his research on the molecular mechanisms through which antibiotics depress the nervous system.

**Wax wins Rudin glaucoma prize**

Martin B. Wax, M.D., has been awarded the 1999 Lewis Rudin Glaucoma Prize by the New York Academy of Medicine. The Rudin Prize is given annually for outstanding glaucoma research published during the previous year.

Wax, a professor of ophthalmology and visual sciences at the School of Medicine, was chosen for the prize after a series of scientific papers that demonstrated a role for autoimmunity in glaucoma. His work, published in the American Journal of Ophthalmology, the American Journal of Ophthalmology, and the American Journal of Ophthalmology, provided evidence of mechanisms in glaucoma by which the eye can mount an immune response against its own tissues and damage neurons in the optic nerve.

Most patients with primary open angle glaucoma (POAG) have high pressure in the eye, but Wax's studies have placed particular relevance to patients suffering from normal pressure glaucoma (NPG). NPG patients do not benefit from the therapies that lower intraocular pressure. In addition, NPG patients account for the highest rates of other autoimmune diseases such as lupus erythematosus and Addison's disease. In several studies, Wax has found that patients with NPG make antibodies that can react with proteins in the eye. These antibodies react with retinal ganglion cells that are affected by glaucoma.

**Boxerman in new director of Health Administration Program**

Barry Boxerman, M.D., an assistant professor of health administration, has been named interim director of the Health Administration Program at the School of Medicine. Boxerman, an associate professor of health administration, replaced James O. Hepner, M.D., whose appointment ended last month.

In addition to his responsibilities as interim director, Boxerman will teach courses in statistics, operations research and information systems. He also will continue researching process improvement and error reduction in health-care delivery systems.

Boxerman earned all three of his degrees from the University of Minnesota. Two were in electrical engineering and one bachelor's in electrical engineering in 1963 and a master's in 1965. In 1970, he was awarded a doctorate in applied mathematics and computer science.

He joined the Health Administration Program as an assistant professor in 1974. He was named associate professor in 1983 and deputy director in 1991.

The Health Administration Program was founded in 1946. The graduate program provides students with a firm foundation in management integrated with a solid understanding of the health-care field and its current delivery systems. In more than 1,000 job placements, graduates hold positions in a variety of settings, including health systems, hospitals, long-term care facilities, group practices, hospice, home health-care facilities and consulting firms.

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Lindberg’s group obtained the cells without CD47 from mice whose CD47 gene had been inactivated. Lindberg derived these mice when he was a postdoctoral fellow in the Washington University Laboratory of Eric I. Brown, M.D., who now is at the University of California, San Francisco.

The mice are much more sensitive to certain autoimmune diseases, particularly hemolytic anemia, in which the body destroys its own red blood cells. Therefore abnormally low levels of CD47 might contribute to this condition in humans. In fact, researchers previously discovered that red blood cells of people with a disorder called RH null, which involves mild hemolytic anemia, have less than 25 percent of the usual level of CD47.

In contrast, certain ovarian tumors display too much CD47. "That might be a way for tumor cells to turn off macrophages and therefore escape destruction," Lindberg said. "So it will be important to investigate the role of CD47 in specific diseases."
Two summer concert series offer wealth of free music

Looking for a pleasant way to pass lazy evenings before next semester’s academic onslaught? This summer, the Holmes Jazz Series and the Gateway Festival Orchestra will conspire to help campus concert-goers mark time with a wealth of free music through-out July and early August.

Now entering its third year, the Holmes Jazz Series presents St. Louis musicians performing in Holmes Lounge at 8:30 p.m. Thursdays. On July 20 the Mike Karpowicz Trio comes up to bat, followed by pianist Paul Westcott on July 27 and the Dave Black Duo Aug. 3. For further information, call 935-4841.

The Gateway Festival Orchestra, now in its 30th season, performs at 7:30 p.m. Sundays in Brookswood Quad. On July 16 the orchestra — under the direction of conductor Z. Leah Harris, Schatzker, emeritus in the Department of Music and Music Sciences — performs Max Bruch’s “Kol Nidrei.” James Brahms’ Fourth Symphony and Friedrich H. Florentz’s “Overture to Martha.” On July 23 the orchestra will perform “An Evening of Spanish Music,” including Edouard Lalo’s “Symphonie Espagnole” (with Marcin Budziak as violin soloist) and the music of Enrique Granados, Manuel Chabrier and Ernesto Lecuona.

On July 23 the orchestra performs Aaron Copland’s “Fanfare for the Common Man,” Antonin Dvorak’s “Symphony No. 9,” arson Francisco’s “Mass” and “The Marriage of Figaro” and Tchaikovsky’s “1812 Festival Overture.”

In the event of rain, the orchestra’s concerts are presented on the campus of Saint Louis University at the same hour. For further information, call 369-0671.

The Holmes Jazz Series is sponsored by the College of Arts & Sciences, the Department of Music, the Office of Student Activities and Campus Life, the Gaylord Music Club and the Arts & Sciences, the Department of Music. The Gateway Festival Orchestra is sponsored by Washington University, the American Federation of Musicians, the Recording Industry Trust Fund, the Arts & Education Council of St. Louis, the Regional Insurance Trust Fund, the Missouri Arts Council and Emerson Electric Co.

Genome

WU researchers join White House event — from page 1

President Bill Clinton noted the ceremony was taking place in the room where Meriwether Lewis unloaded the map of his western expedition for Thomas Jefferson. “The human genome is even more important, most wonderful map ever produced by human-kind,” Clinton said.

The genome is the basic set of instructions for the development and functioning of the body. Sequence means determining the exact order of DNA’s four chemicals, commonly abbreviated A, T, C and G. The tour here was one of the five largest sequencing centers in the world, said Dr. Steven Scherer, director of the institute. “It is the first time we have sequenced a human genome,” he said.

Approximately 50 percent of the genome sequence now is in a form or better, and 24 percent is completely finished. This working draft is helping scientists understand how a human being develops from a fertilized egg to an adult. It also is revealing what goes wrong at the genetic level in many diseases. Using this information, scientists hope to develop drugs that compensate for the genetic glitches, especially tailoring the drugs to genetic makeup of individual patients.

Craig Venter, president of Celera Genomics, also announced the completion of his company’s working draft at the ceremony. His company, Celera and the Human Genome Project used different sequencing strategies to reach their goals.

The researchers now must polish their drafts. Back at work on Tuesday, the team only gets tougher. Some of the pressures on Fuster noted that, while quotes and archival photographs, will be published in September by the Missouri Historical Society.

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Fred M. Kemp understands the value of a robust annual fund to our school, and wants to motivate other friends and alumni to boost its strength," explained Dawn Cynthia Wexler, FAIA. "It is Fred and my great hope that others will follow his lead and participate in this challenge."

"The Kemp Challenge will match all new or increased annual fund gifts on a 4-to-1 ratio and all renewed annual fund gifts 1-to-1, for a total match of $740,000 a year in 1999-2000 and 2000-2001. The challenge hopes to raise the support of Washington University alumni to date the challenge strength of $342 in charges. The account totaling $885.9 million to date.

Fred M. Kemp is president of Kemp Homes, a company known for its innovative contributions to the development of residential communities. Kemp is actively involved in the architecture school, co-chairing its Major Gifts Committee and serving on its National Council.

The construction trade, Marks said. "Construction sponsors produce an array of options of these math skills to strengthen understanding and ability to apply concepts taught. The students, ranging in age from 13 to 15, also are participating in personal development and life-skills activities, including oral and written communications, career planning, decision-making, problem solving, and budgeting. Each Friday they go on a field trip. In addition to touring construction sites on the Hilltop Campus, the class has been to Saint Louis University and the University of Missouri-St. Louis to compare construction and architecture among the universities.

On Thursday, the group also visited the St. Patrick's Center downtown where Mosby Construction, a minority-owned firm, was the general contractor. The construction firm was hosting an employee recognition day, so the teens got to attend a barbecue in addition to touring the site at the former Sverdrup building.

"We have a broad range of students academically," said Arthur Porter, program director, "Some may not go on to college. We show them an alternative career path rather than a low-paying dead-end job."

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"At first, I was like, 'I don't know if I want to. But I like working with kids,'" said one of the students. "I like being on campus. It gives me a feel for the classroom space for the fall. I really like the fact that we can go to work on the computers and the Internet," he said.

The program is the brainchild of Ralph Thaman, director of facilities and management. He said he wanted to do some thing with young people that would also help respond to the lack of minority firms in high-end trades, such as mechanical, electrical and plumbing.

"There is a difficulty in finding construction workers today, and young people are not going into construction. I thought if we could get them interested, even if they don't go to college they could work in construction in some way," he said. "And I also thought it was a great opportunity for those who might not be able to or want to go to college. There are a lot of good opportunities in construction, but unless you get them involved at a young age they don't seem to get it."

Marks echoed Thaman's thoughts. "In the next five years, St. Louis is going to be short people in construction. We will have about 100 people in the pipeline to be in the union," she said.

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The program is the brainchild of Ralph Thaman, director of facilities and management. He said he wanted to do some thing with young people that would also help respond to the lack of minority firms in high-end trades, such as mechanical, electrical and plumbing.

"There is a difficulty in finding construction workers today, and young people are not going into construction. I thought if we could get them interested, even if they don't go to college they could work in construction in some way," he said. "And I also thought it was a great opportunity for those who might not be able to or want to go to college. There are a lot of good opportunities in construction, but unless you get them involved at a young age they don't seem to get it."

Marks echoed Thaman's thoughts. "In the next five years, St. Louis is going to be short people in construction. We will have about 100 people in the pipeline to be in the union," she said.

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First lady
Zwerling has gift for connecting with others — from page 1

Zwerling has gift for active also with St. Louis' Central DeWoskin said. "She gives you the connections at Magellan. Judy Zwerling has made countless pet sitting.

health programs to assistance either purchases the services from identity that they've found there.

elsewhere as well, volunteering at "She is a wonderful mentor," Eighty account managers take implementation, and she manages clients and 70 million people, providing coaching in mental health programs to assistance finding children's piano classes and pet sitting.

With this substantial portfolio, Zwerling has made countless connections at Magellan, Judy DeWoskin who reports to her, enjoys one of them. "She is a wonderful woman," DeWoskin said. "She gives you the freedom to learn and grow. She's excelling in teaching things happen." Zwerling makes things happen everywhere else as well, volunteering at Our Little Haven, a refuge for drug-exposed and abused children up to age 5. She spends Wednesday afternoons there for two or three year-olds. "I sit on the floor and or the kids climb all over me," she explained with a happy grin. For 15 years, she has been active also with St. Louis' Central Reform Congregation, which she and her daughters joined because she wanted them to know and cherish their Jewish heritage. She values deeply the sense of belonging and cultural identity that they've found there. She recently joined its board of directors.

And has become a director of the Center of Contemporary Arts, University City, Mo., where both her daughters learned to dance.

She hopes to maintain her volunteer commitments after her marriage, but she also looks forward to helping ease the transition from life away from home. She intends to be present and visible in other ways, too. She

loves watching the NCAA Division III champion women's basketball team. "I'm going to their games," she says, "I'm the single thing I do with Mark. That's pure escape. What's greater than cheering for a team?" Another aspect of providing the University community another means of connecting with the chancellor. "I think I can help make Mark more accessible," she said. "We've all been awed by his intelligence, but he really is such an approachable person. I'm an ice-breaker. I like to put people at ease. Mindy can be a little bit of a bridge."

Her perseverance, sometimes irresistible, also helps her. Her daughter, Anna, listed her qualities as including her many attributes, though she also stressed that Zwerling's confidence and strength of character. What when she asked what most would characterize her, her mother, Anna replied: "I would hope the University would have her as a self-made person, she is to appreciate how smart and capable they are."

Of the melding of her family with Wrighton's (which includes his son, J.I., 22, who graduated from the University in May, and daughter, Rebecca, 19, a sophomore at Wellesley), Zwerling said, "She gets along really well. Mark just makes her so happy. They're a team."

The transition will certainly involve many changes for the Zwerling family and her daughters love their University City house. "It has been a dream for me and the girls," she noted. Their plan is to part in a month or so, and down to Harbison House, where Lea, 15, well, everybody is already dead there, and what harm can she do?"

Zwerling said both girls are looking forward to having a stepfather. "Their own father died in September 1995," she explained. "Although they know no one can take his place, they're looking forward to having another parent in their corner — you can't have too many loving parents — and Mark has demonstrated his deep commitment and caring for them in innumerable ways."

Among other adjustments involved in the move, there's also the matter of the pets. An avid animal lover, Zwerling has three cats and a dog: Wrighton has two older cats. They're looking for good homes for two of her felines. But the transition is easier, Zwerling said, because of the nature of Washington University. "I truly think the community is unique," she reflected. "I can't imagine a place being so warm and welcoming."

After she and Wrighton decided to marry, she talked with Elizabeth "Ibby" Danforth, wife of Chancellor Emeritus William H. Danforth and the University's beloved first lady for 24 years. "I asked her if we could have lunch so she could give me some pointers," Zwerling recalled. "I want to have lunch," Ibby said, "but let me give you give you the pointers right now — you'll be yourself — but be yourself lunch." When asked what she would like to say to the University and Lea's friends about Zwerling, Lea said: "I would like the University to know that she's a self-made person, she is to appreciate how smart and capable they are."

"I'm really excited about it," said Leah. "This is going to be a new adventure for us. For our family, it's always been the three of us. It will be a new way of life — not just having a man in the house, but being part of the University."

Lea and Anna, a junior dance major at Clark University, New London, represent two of Wrighton's deepest connections. "My daughters are my true soulmates," she said. "We are all very close and deepest connections. "My children are what a leader in today's work force must be equipped to manage people, perform multiple tasks, communicate effectively, analyse problems, consider many perspectives when making difficult choices and bring about innovation and change."

Each semester all students will register for and attend classes and workshops for leadership development and career preparation that are offered. Ehrlich said he plans to develop a comprehensive career advising program in the program so they can controllably monitor their experience and get feedback. He also is looking to customize the program to offer what they need.

While the LAB program is adapted to an adult student audience, qualified day students can take courses without enrolling in the program. Ehrlich said the College of Arts & Sciences helps students to develop the Leadership and Applied Business (LAB) certificate program, which will be a sister program to the two other programs. Fall registration for the LAB program and all University courses will be available.

For more information, visit www.wustl.edu/acad — or call 935-4320.

By Christine Farmer
A new Liberal Arts and Business (LAB) certificate program geared to aspiring business graduates will begin this fall. The program, offered through University College in Arts & Sciences, provides students with resources and strategies to help people build their businesses, connect with their organizations successfully and manage their own careers.

The program offers an 18-unit certificate and a 30-unit advanced certificate that can be pursued separately or along with a baccalaureate degree. Students must have three years of work experience to be admitted. In addition to the two required courses — Leadership for Organizational Success and "Professional Writing, Speaking and Presentation" — there are numerous courses to choose from in the following key areas:

• Leadership, Teamwork, and Organizational Success;
• Writing, Oral and Electronic Communications;
• Critical Thinking, Problem Solving and Decision Making;
• Information Technology and Systems Management;
• Quantitative and Financial Analysis;
• Global Awareness and Diversity;
• Ethical Decision Making.

"A leader in today's work force must be equipped to manage people, perform multiple tasks, communicate effectively, analyze problems, consider many perspectives when making difficult choices and bring about innovation and change," said Steven M. Ehrlich, University College assistant dean and adviser to the program. "These leadership qualities are best acquired through a rigorous and flexible liberal arts education. This program allows students to flexibly choose courses in liberal arts and business areas that closely relate to their professional goals."

Motivated by a partner, Marquard Beverage Co. L.L.C., an Arby's franchisee who is a distributor in Washington, Mo., one of the program's required courses is an evening course and plans to enroll in the program this fall. "We've just been on the road a lot and thought the class was really enlightening, and hopefully I will be able to apply what I learn to become more successful in running my company," he said. "It was interesting to see how other organizations have done it. I am going to go for the advanced certificate." He would eventually like to get a degree.

LAB is ideal for someone who has been a leader or degree, as the courses count towards a degree and the certificate. "The program is geared towards people who are continuing their education and eager to start earning entry level to middle management — who want to acquire skills to manage others and move ahead in their careers," Ehrlich said. "LAB helps students develop practical skills and insights to make connections between a liberal arts education and the workplace."

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Hilltop Campus

This is a partial list of

Medical Campus

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Use the World Wide Web to obtain complete job descriptions. Go to https://lir.wustl.edu/ (Hilltop) or http://medlcine.wustl.edu/wumshr (Medical).
Jeff Pike reappointed dean of School of Art

Jeff Pike has been reappointed dean of the School of Art, according to Chancellor Mark S. Wrighton. The appointment follows the work of an advisory committee co-chaired by James W. Davis, professor of art and director of the International Center for Arts in Sciences, and Ronald A. Leax, professor of art.

"The committee reviewed many outstanding candidates in a national search to identify possible leaders for the School of Art," Wrighton said. "I have selected the best person for this important position and am convinced that Jeff has agreed to continue on as dean. Over the past 11 years, Jeff has demonstrated a commitment to the highest standards of the visual arts at Washington University, he also would like to thank all members of the advisory committee who were involved in the process and leading to Dean Pike's reappointment."

Davis said: "The committee engaged in a year-long search, and I think Jeff Pike is a superb choice. He knows the school, and he is currently the provost, and I believe he certainly enjoys the respect of his colleagues.

Addie Pike: "I am extremely honored by this opportunity, because Washington University's School of Art has a long history of distinction, providing its students with the highest quality studio and academic programs in the nation.

Said Pike: "I am excited to have joined the Washington University family and look forward to the continued strengthening of the visual arts at Washington University as a member of the VADC Executive Committee."

"Pike has played a key role over the last year as we have continued to refine our plans for the Van Vechten Center," Wrighton said. "Confident that we will continue to build on that momentum and the momentum generated under our administration, Pike also serves as associate professor of art in the illustration program. He has published numerous articles in advertising and his illustrations have received numerous honors.

Pike earned a bachelor's degree from the Kansas City Art Institute in illustration and a master's degree in visual communication from Syracuse University in 1978. He taught for five years as an instructor including the Philadelphia College of Art, before joining the Washington University art faculty in 1985.

During his tenure at the art school, Pike led the illustration program from 1984 to 1994 and, as associate dean from 1995 to 1999, he was responsible for overseeing the undergraduate program. Pike served as chair of the VADC Curriculum Committee from 1996 to 1999.

Of note

Judith A. Fox, assistant dean for access and bibliographic description in the University Libraries, was recently elected to a three-year term as the director of Library Network Corp. (MLCN) representative to the Online Computer Library Center (OCLC) Users Council. The OCLC is a nonprofit membership organization that offers information services to over 36,000 libraries in 74 countries. The Users Council is part of the OCLC governance structure and is composed of 60 representatives who represent member libraries and provide OCLC with information about their needs.

"One of the skills that Pike brings to his new role is a deep understanding of the technology and the changing environment of library services," said Diane B. Reilly, University Librarian. "We are confident that we will continue to work with Jeff Pike and the OCLC to meet the evolving needs of our users and the broader OCLC community.

Mark Aaron Friedman, who completed a master's degree in fine arts at the School of the Art Institute of Chicago, was named the recipient of the 2000 Harrison Daley Stanley Award. The award is named after the late Harrison D. Stahl, Ph.D., a professor of art at Washington University for 40 years. It is given annually to a graduate student selected for both academic excellence in science and for breadth of interests. In addition to his academic performance, his major and minor concentrations, and his involvement in Judaism and other activities, Pike has been a longstanding member of the school's tennis team. He graduated with honors in May and will begin medical studies in the fall.

"I look forward to the continued strengthening of the visual arts at Washington University," Wrighton said. "And I have every confidence that we will continue to attract and support the best faculty and students."

Speaking of

Garland E. Allen, Ph.D., professor of biology in Arts & Sciences, is the recipient of the 2000 J.W. (Jim) Black Award for Distinguished Education for the Department of Biology. The award is presented annually to an outstanding educator in the department.

"The reception of Mendelism in India" was selected as the John L. Gophile Grant for this year. The award is given for the best article published in the Journal of the History of Biology.

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India-bound DeKay awarded Fulbright grant

BY ANN NICHOLSON

Mark DeKay, assistant professor of civil and environmental engineering, will spend the next five months researching "the relationship of the university's visual image to the performance of students enrolled in the department's success. In 1981, he created the foundation for the VADC Curriculum program. Pike also served as chair of the School of Art, Pike's responsibility for ensuring the broad support we receive from the university for our programs and initiatives includes participating in the Board of Trustees, the Faculty and Staff Senate, and the University Senate.

He also presented a paper on "The Reception of Mendelism in India" at the 19th annual meeting of the American Society for the History of Biology in Buffalo, NY....

"Through the cultural, social, and economic development of space to innovative use of materials and equipment, DeKay is increasingly unable to absorb the pollutants generated by building and seepage, we will have to design and learn to live in more energy-efficient buildings," he said.

DeKay's project builds upon his work with the U.S. Department of Education and several other universities to develop and disseminate course materials that promote energy-efficient design using "Energieshaping" software. It allows architects to design from more flexible adaptation strategies that are consistent with the materials and design strategies at all levels of design. The software allows architects to design buildings to shut out exterior conditions, depending upon climatic parameters.

"In the future, as buildings demand lower fossil- fuel energy resources and we face an increasing constraint that we are unable to absorb the pollutants generated by building and seepage, we will have to design and learn to live in more energy-efficient buildings," he said.

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Wendy Auslander, Ph.D., studies social factors impacting health

By GERRIT ENDWORTH

Wendy Auslander, Ph.D., works with St. Louis-area peer counselors in the "Eat Well, Live Well" program she pioneered with colleagues at the School of Medicine.

Now recognized as a national authority on social factors that influence personal health behaviors, she has received funding as principal investigator or project director on more than 10 research projects from the National Institutes of Health. She has served on the editorial boards of four leading journals, Journal of Health & Social Work and The Journal of Early Adolescence and on the advisory boards of a dozen public community service agencies, including the St. Louis AIDS Foundation and the American Diabetes Association.

While her interest in human behavior now extends far and wide, she still traces her curiosity to childhood excursions into the world of diabetes research. "I had my first real mentor, Julio V. Santiago, M.D., then an assistant professor in 1986 and now at Harvard University. My interest in human behavior now extends far and wide, she still traces her curiosity to childhood excursions into the world of diabetes research. "I had my first real mentor, Julio V. Santiago, M.D., then an assistant professor in 1986 and now at Harvard University. "All of a sudden I found myself working with all these great people in the diabetes research field," she said. "The opportunities, coupled with my personal interest in the disease, made the career choice too difficult to pass up."

Auslander earned a master's in social work in 1979 and, because of her fascination with research, decided to pursue a doctorate here. She spent a year conducting evaluation research in the Department of Pediatrics at Thomas Jefferson Medical College in Philadelphia and completed her doctorate in 1986. She joined the faculty here as an assistant professor in 1986 and was named associate professor in 1992.

Health promotion

While her early research focused on helping people cope with diabetes and other chronic health problems, Auslander soon became interested in helping people prevent health risks before they become problems.

Her work has taken a big turn toward health promotion and prevention, she said. "When I first got involved with HIV research, around 1987, it became pretty clear that there were more benefits in helping people prevent the disease than in helping them live with it. By then, those days, HIV was not considered a chronic disease; people planned on dying, and there was not much you could do about that."

Although her research focuses on the special needs of society's most neglected subsets — children, the poor, minorities, people with chronic diseases — the lessons she has learned and the techniques she uses are relevant for all of us.

"We all live chaotic lives these days," she said. "How many of us come home from work and drag ourselves to bed, or spend the entire evening doing nothing but sitting in front of the television? I spoke about that."

Auslander ended up at Cornell University, where she pursued studies in human behavior, psychology and child development, graduating in 1977 with a bachelor's degree in human development and family studies. Washington University was her first choice among graduate social work programs, but her immersion in diabetes research here came about by fluke — her boyfriend overheard a conversation about the Diabetes Research and Training Center at the medical school. Auslander called about working with diabetics. Family members on the other hand, provided more specific interest in diabetes management.

Lessons such as these, gleaned from conversations and community-based studies aimed at helping teens and families cope with chronic diabetes management, have helped inform Auslander's work on a wide range of similar health issues.